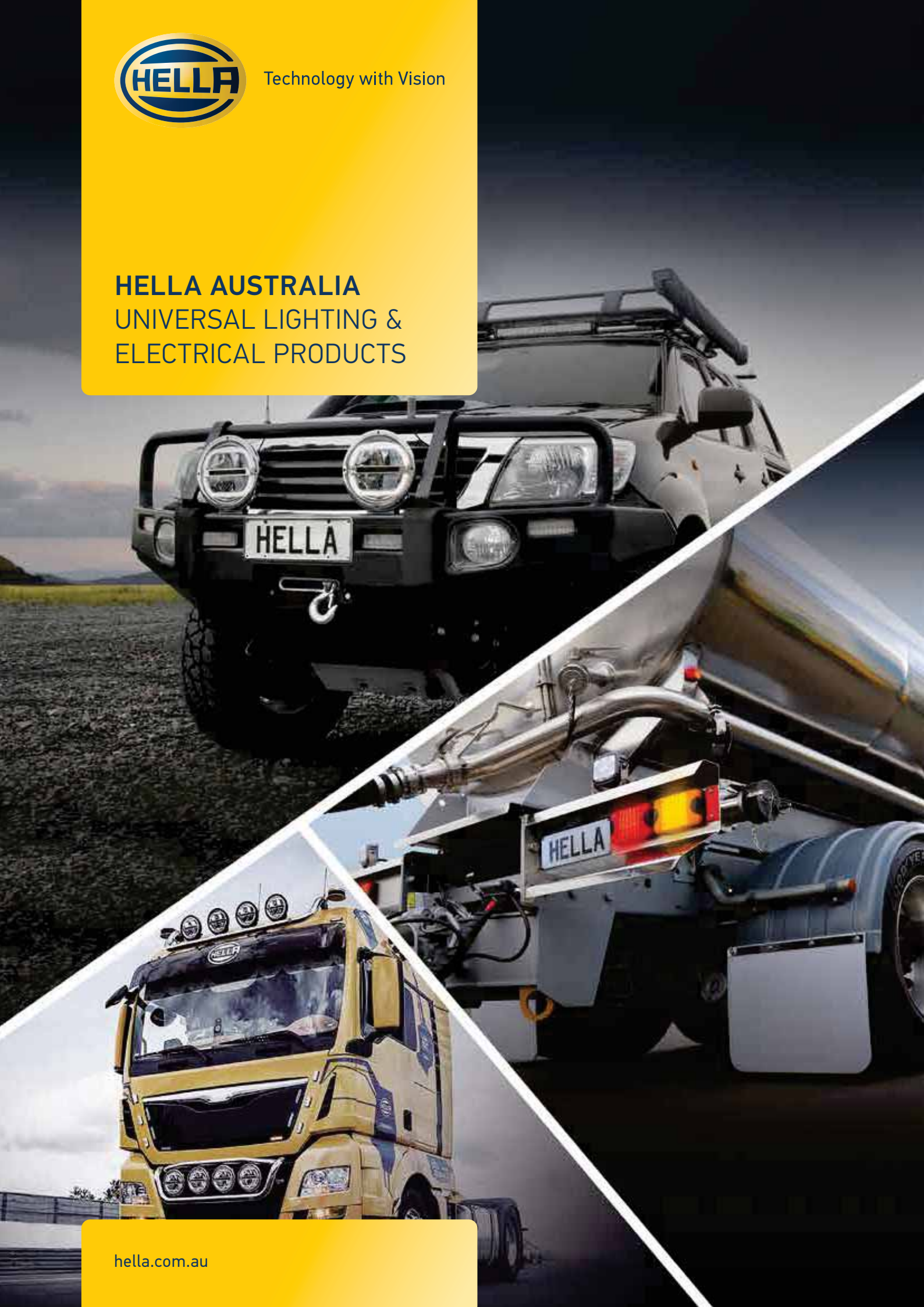
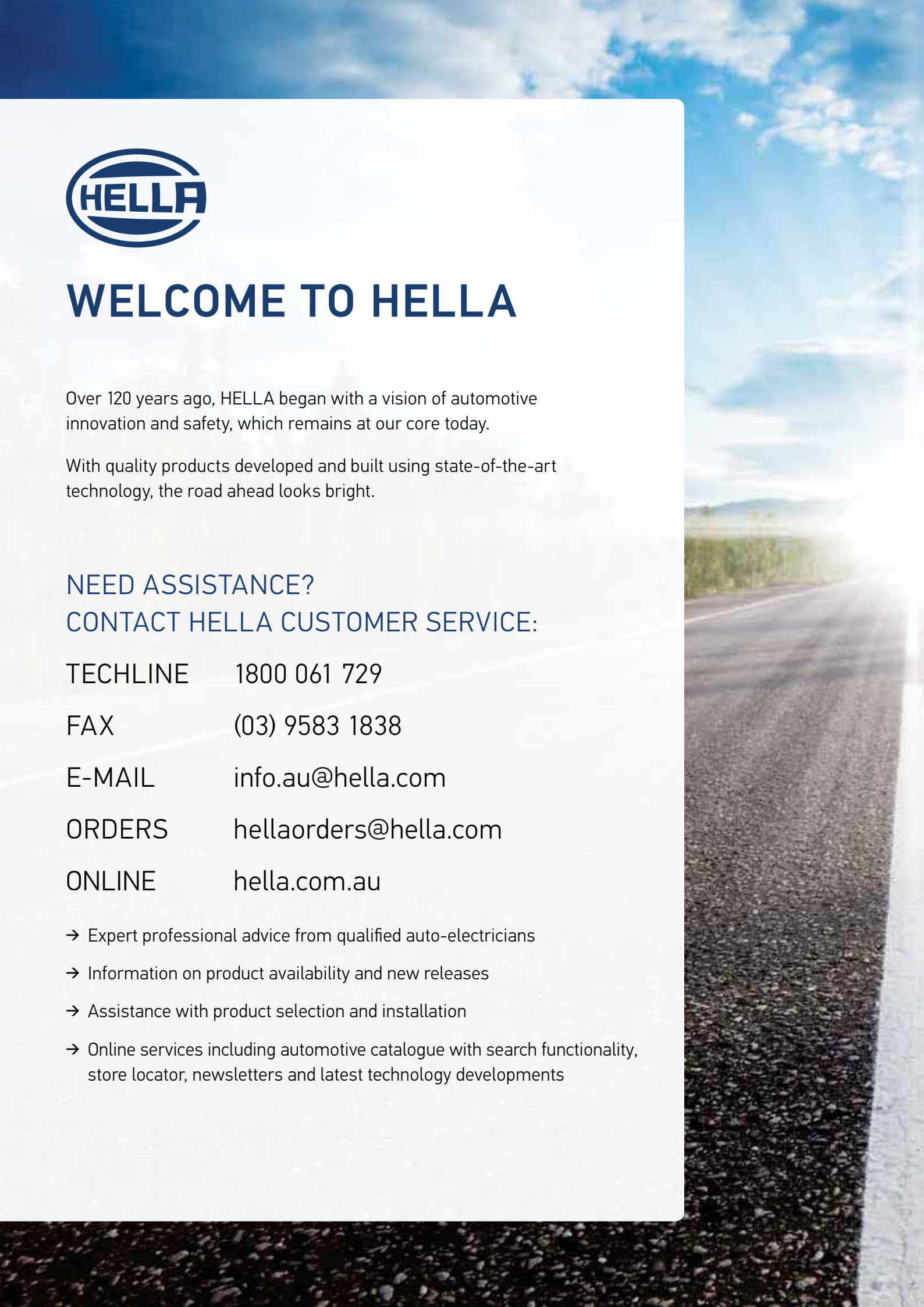
Technology with Vision

HELLA AUSTRALIA
UNIVERSAL LIGHTING & ELECTRICAL PRODUCTS



hella.com.au



WELCOME TO HELLA

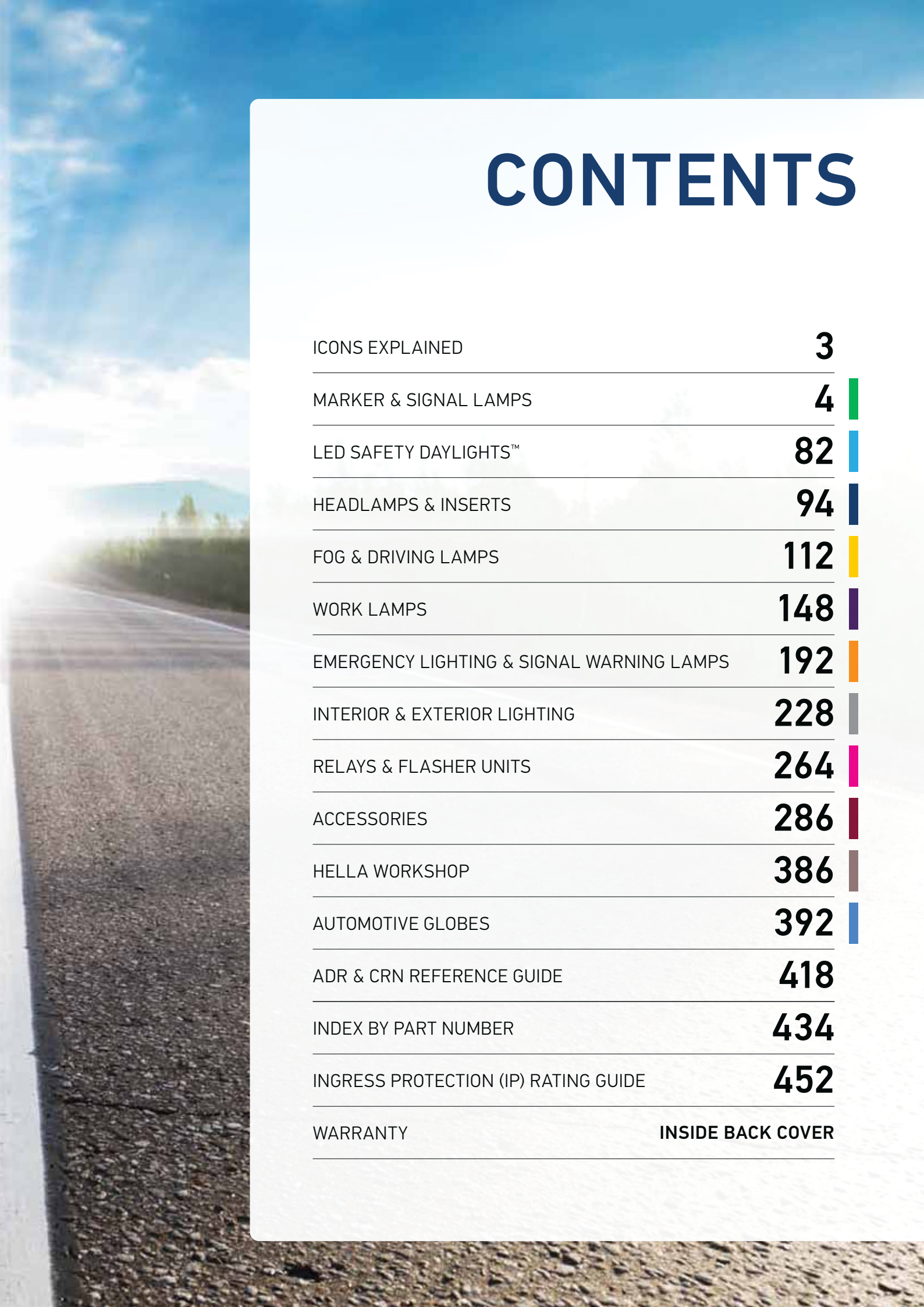
Over 120 years ago, HELLA began with a vision of automotive innovation and safety, which remains at our core today.

With quality products developed and built using state-of-the-art technology, the road ahead looks bright.

NEED ASSISTANCE?
CONTACT HELLA CUSTOMER SERVICE:

TECHLINE	1800 061 729
FAX	(03) 9583 1838
E-MAIL	info.au@hella.com
ORDERS	hellaorders@hella.com
ONLINE	hella.com.au

- → Expert professional advice from qualified auto-electricians
- → Information on product availability and new releases
- → Assistance with product selection and installation
- → Online services including automotive catalogue with search functionality, store locator, newsletters and latest technology developments



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WARRANTY	**INSIDE BACK COVER**

HELLA

Australia

For over a century, HELLA has focused on innovation, quality and optimum performance at a level beyond conventional industry standards. This no compromise approach has established HELLA as a trusted partner for the world's leading vehicle manufacturers and today HELLA is proud to be one of the top forty automotive suppliers in the world.

The Special Original Equipment Division at HELLA Australia is dedicated to developing custom lighting and electronic solutions for the complex requirements of specialist vehicle manufacturers in diverse sectors such as mining, construction, agriculture, emergency services and marine.

Through the Aftermarket Division, HELLA Australia supplies wholesale distributors and retailers with a diverse portfolio of high quality replacement parts for both passenger and commercial vehicles, teaming up with several other European Original Equipment brands, all of which are regarded as among the very best in their fields, in order to offer an even more diverse product range.

The HELLA Field Sales team and Customer Service advisors are the designated first point of contact, and customers can be assured of a prompt, helpful and knowledgeable response.

The Technical Specialists, Product Managers and Marketing team liaise directly with customers providing training, technical sales support and business development initiatives, which include bespoke lighting designs, marketing tools and promotions.



PREMIUM QUALITY PARTS FROM LEADING EUROPEAN ORIGINAL EQUIPMENT BRANDS

HELLA · HELLA PAGID BRAKE SYSTEMS · HELLA GUTMANN SOLUTIONS · Hella marine Vision and Innovation · MAHLE · SCANGRIP INNOVATION FROM DENMARK

HELLA is an Original Equipment supplier to over 165 of the world's leading vehicle manufacturers including...

- Aston Martin, Audi, BMW, Mercedes-Benz and Porsche
- Case New Holland, Caterpillar, John Deere, Komatsu and Manitou
- DAF, Daimler, Kenworth, MAN, Scania, Volvo
- BCI, Iveco, MAN, Marcopolo, Mercedes-Benz, Scania, Volvo
- Barker, Byford, Krone, Vawdrey, Wielton
- Austal, Bavaria, Beneteau, Maritimo, Riviera

ICONS EXPLAINED

A variety of symbols are used to ensure a quick reference to many important product features throughout the catalogue.

DuraLED® LIFETIME WARRANTY
Refer to the website for further details.

5 YEAR WARRANTY ON LED
Refer to the website for further details.

FIT & FORGET BY DESIGN

ULTRA LONG LIFE LONGEVITY

MULTIVOLT™
Can be connected to either 12V or 24V DC electrical systems.

DUALVOLT
12V or 24V DC

GLOBE INCLUDED

12V or 24V GLOBE INCLUDED

ENHANCED DEFINITION TECHNOLOGY
Utilises Enhanced Definition Technology (EDT) to maximise the visual impact of the signal function.

HELLA COMPATIBILITY SOLUTION (HCS)
HCS technology for safe and seamless conversion to LED direction indicators.
Refer to details on page 276.

LED TECHNOLOGY
Combining quality LEDs with advanced optic technology for class-leading efficiency.

NUMBER OF LED LIGHT SOURCES
Defines the number of LED light sources used by the product.

GRILAMID® LENS MATERIAL
High performance clear polyamide for extreme impact, UV, chemical and stress resistance.

RFCommSafe™
Electromagnetic Compatibility (EMC).

ULTRAVIOLET RESISTANT
Utilises advanced impact resistant polymers that will not yellow or deteriorate.

ULTRA WIDE VISIBILITY OPTICS
Providing increased light intensity that is well above ADR requirements for significantly improved side visibility.

CORROSION-PROOF HOUSING

HEAVY DUTY MOUNT

STAINLESS STEEL BRACKET

ECE CERTIFIED
Product is licensed according to ECE guidelines.

ADR COMPLIANT
Products displaying this symbol comply with Australian Design Rule, or ADR requirements.
Refer to details on page 418.

RCM COMPLIANT
Regulatory Compliance Mark

DISPLAY PACK
Supplied in printed packaging suitable for retail display.

HANG-SELL PACKAGING
Supplied in hang-sell blister packaging for retail display on existing merchandising systems.

RETAIL PACKAGING

Marker and Signal Lamps

HELLA's range of Marker and Signal Lamps is accepted as the most advanced lighting solution for commercial vehicles.





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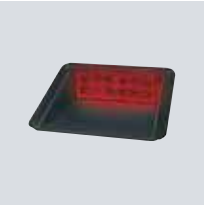

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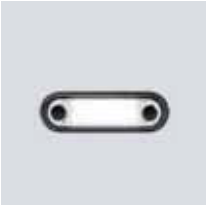

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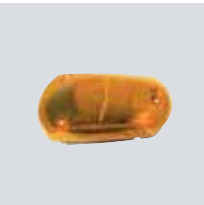
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ACCESSORIES

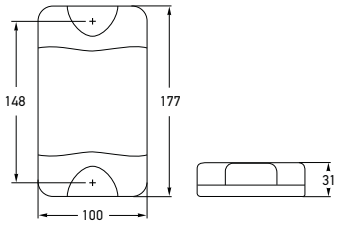


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DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





2330-V	2SB 959 060-251
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts
Power Consumption	Stop: 6W Rear position: 2.5W Night: 2.5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Compliance	ADR 49/00 E24 5850 ECE R7/02

See page 76 for DuraLED® accessories.

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers.

Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2151-V	2BA 959 070-251	
2151-VCS	2BA 980 607-501	HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	2151-V 6W 2151-VCS 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 6/00: Cat 2a E24 5850 ECE R6/01 ISO 13207-1 (2151-VCS only)	

See page 276 for further information on HCS Technology and ISO 13207-1.

DuraLED® Reversing Lamp

DuraLED® reversing lamp for trucks, buses, caravans and trailers.

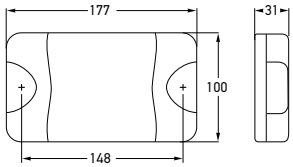


1430-V	2ZR 959 070-551
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts
Power Consumption	4W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Compliance	ADR 1/00 E24 5850 ECE R23/00

Reversing lamps are not designed for continuous operation.

DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2330-H	2SB 959 060-351					
2330-HBL	2SB 959 060-352					BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.					
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts					
Power Consumption	Stop:	6W	Rear position:	2.5W	Night:	2.5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)					
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable					
Compliance	ADR 49/00	E24 5850	ECE R7/02			

See page 76 for DuraLED® accessories.





2330-HBL

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

2151-H	2BA 959 070-351					
2151-HBL	2BA 959 070-352					BLISTER PACK
2151-HCS	2BA 980 607-001					HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.					
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts					
Power Consumption	2151-H/...-HBL/...-HBULK	6W	2151-HCS	4W		
Protection	As per Part No. 2330-H					
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable					
Compliance	ADR 6/00: Cat 2a ECE R6/01	E24 5850 ISO 13207-1 (2151-HCS only)				

See page 276 for further information on HCS Technology and ISO 13207-1.





2151-HBL

DuraLED® Reversing Lamp

DuraLED® reversing lamp for trucks, buses, caravans and trailers.

1430-H	2ZR 959 070-501					
1430-HBL	2ZR 959 070-502					BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.					
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts					
Power Consumption	4W					
Protection	As per Part No. 2330-H					
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable					
Compliance	ADR 1/00	E24 5850	ECE R23/00			

Reversing lamps are not designed for continuous operation.





1430-HBL

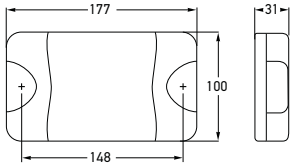
DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED® stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle.





2330BL



Technology EDT | Power Supply MULTI VOLT | Compliance ADR COMPLIANCE

2330	2SB 959 060-001	
2330BL	2SB 959 060-002	BLISTER PACK
2330BULK	2TA 959 060-011	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Stop: 6W Rear position: 1W Night: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 49/00	

See page 76 for DuraLED® accessories.

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp for trucks, buses, caravans and trailers.





2151BL

Power Supply MULTI VOLT | Compliance ADR COMPLIANCE

2151	2BA 959 070-011	
2151BL	2BA 959 070-012	BLISTER PACK
2151BULK	2BA 959 070-027	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 6/00: Cat 2a	

The new evolution of the DuraLED® Combi has arrived.





2VP 015 074-001



2378



2377

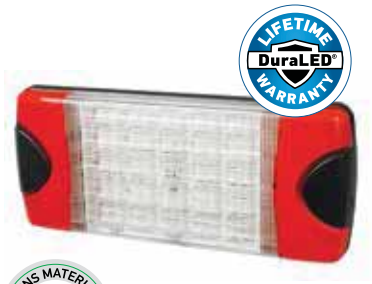
Upgrade to the Latest Technology

HELLA introduces the latest upgrade to the iconic DuraLED® Combi with a new slim design, featuring a depth of just 25mm. Combining all the features transport professionals depend upon; world-class materials, unsurpassed design, exceptional performance, and after sales service second to none, the new DuraLED® Combi will be the next staple in road transport lighting arsenals.

Part Numbers	Slim	Power Supply MULTI VOLT	RF CommSafe	Cable Length (mtrs)	Built-in DT Connector	Lens Material GMD	BULB FLED HCS HELLA Compatibility Solution	Additional Functions	Application
2377	✓	12/24V	✓	2.5	–	✓	–	Retro Reflector	Truck/Trailer
2378	✓	12/24V	✓	2.5	–	✓	–	–	Heavy Duty Commercial High Impact Protection
2378-BL	✓	12/24V	✓	2.5	–	✓	–	–	Heavy Duty Commercial High Impact Protection
2378-CS	✓	12/24V	✓	2.5	–	✓	✓ 24V	–	Heavy Duty Commercial High Impact Protection
2378-DT	✓	12/24V	✓	–	✓	✓	–	Night	Heavy Duty Commercial High Impact Protection
2378-DTCS	✓	12/24V	✓	–	✓	✓	✓ 24V	Night	Heavy Duty Commercial High Impact Protection
2VP 015 074-001	✓	12/24V	–	2.5	–	✓	–	Retro Reflector	Heavy Duty Commercial High Impact Protection
2VP 015 074-101	✓	12/24V	–	2.5	–	✓	✓ 12/24V	Retro Reflector	Heavy Duty Commercial High Impact Protection
2VP 015 075-001	✓	12/24V	–	–	✓	✓	–	Retro Reflector	Heavy Duty Commercial High Impact Protection
2VP 015 075-101	✓	12/24V	–	–	✓	✓	✓ 12/24V	Retro Reflector	Heavy Duty Commercial High Impact Protection

DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator Lamp - Heavy Duty

DuraLED® combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Suitable for commercial vehicles and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.



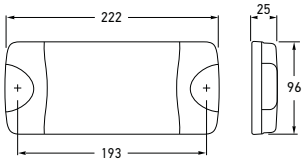




2378BL



Ultra slim height of only 25mm.



RF CommSafe™ · HCS HELLA Compatibility Solution · Visibility Optic Wide · Lens Material GMD · Technology EDT · Power Supply MULTI VOLT™ · Compliance ADR COMPLIANCE

2378	2SD 980 613-001	
2378BL	2SD 980 613-002	**BLISTER PACK**
2378BULK	2SD 980 613-007	**PACK OF 12**
2378-CS	2SD 980 613-201	**HCS TECHNOLOGY (24V ONLY)**
2378-6M	2SD 980 613-031	**6M CABLE**
2378-6MBULK	2SD 980 613-037	**PACK OF 12**
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 2a E24 5883	ADR 49/00 ECE R6/01 ISO 13207-1 (2378-CS only) ECE R7/02

See page 276 for further information on HCS Technology and ISO 13207-1.

COMBI-S LAMP FUNCTIONS



Stop	Rear position	Rear direction indicator

DuraLED® Combi-S Trailer Lighting Kit

A complete Fit and Forget solution for commercial trailers or boat trailers.



RF CommSafe™ · Visibility Optic Wide · Lens Material GMD · Technology EDT · Power Supply MULTI VOLT™ · Compliance ADR COMPLIANCE

2378-TP	2VB 980 613-801	
Kit Contents	Each trailer lamp kit contains:	
	2 x 2378	DuraLED® Combi-S stop/rear position and rear direction indicator lamp with 6m sheathed multi-core cable
	2 x 2923	Red retro reflector
	1 x 2559-1	LED licence plate lamp with 5m sheathed multi-core cable
	1 x 4921	7 pole flat plug





DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator Lamp with DT Connector and Night Light - Heavy Duty

DuraLED® combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power consumption. Suitable for commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.

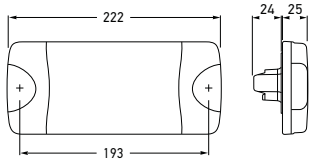




Rear view showing DT connector that allows application of self-adhesive heat shrink.



4963-P
Not included with lamp.



2378DT	2SD 980 602-001				
2378DTCS	2SD 980 602-201				**HCS TECHNOLOGY (24V ONLY)**
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.				
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems				
Power Consumption	Stop: Rear position:	5W 1W	Rear direction indicator: Night:	5W 1W	
Protection	As per Part No. 2378.				
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts			
Lens Material	Nylon (PA12)				
Compliance	ADR 6/00: Cat 2a E24 5883	ADR 49/00 ECE R6/01	ISO 13207-1 (2378-DTCS only) ECE R7/02		

See page 276 for further information on HCS Technology and ISO 13207-1.

DuraLED® Combi-S Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for 24V commercial vehicles. Optic appears clear until illuminated.

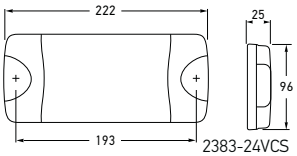




Ultra slim height of only 25mm.



Rear view showing DT connector that allows application of self-adhesive heat shrink.



2383-24VCS

2383-DT24VCS

2383-24VCS	2SK 980 613-511 – Incorporates HCS technology				**2.5M CABLE**
2383-DT24VCS	2SK 980 602-511 – Incorporates HCS technology				**DT CONNECTOR**
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.				
Voltage	24V DC				
Power Consumption	Stop: Rear position: Night (2383-DT24VCS only):	3W 1W 1W	Rear direction indicator: Reverse:	3W 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable (except DT versions)				
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts			
Lens Material	Nylon (PA12)				
Compliance	E24 5894 ECE R10	ECE R6/01	ECE R7/02	ECE R23/00	ISO 13207-1

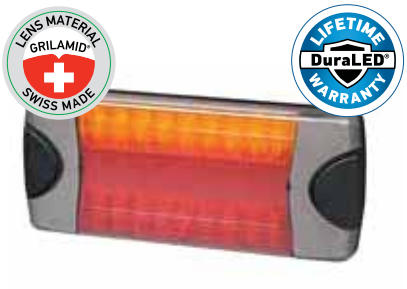
COMBINATION LAMP FUNCTIONS



Stop	Rear position	Rear direction indicator	Reverse

DuraLED® Combi-R Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector

DuraLED® combination lamp with 34cm² red retro reflector which features Enhanced Definition Technology (EDT). Suitable for light commercial vehicle and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing.

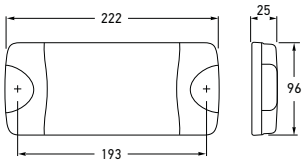




2377BL



Ultra slim height of only 25mm.



2377	2VA 980 710-011		
2377BL	2VA 980 710-012		BLISTER PACK
2377BULK	2VA 980 710-017		PACK OF 12
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems		
Power Consumption	Stop: Rear position: Rear direction indicator:	4W 1W 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	Nylon (PA12)		
Compliance	ADR 47/00 E24 5882	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02 ECE R3/02

See page 76 for DuraLED® accessories.

COMBI-R LAMP FUNCTIONS



Stop	Rear position	Rear direction indicator

DuraLED® Combi-R Trailer Lighting Kit

A complete Fit and Forget solution for trailers or caravans.



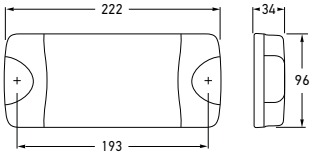
2377-TP	2VA 980 710-811	
Kit Contents	Each trailer lamp kit contains:	
	2 x 2377	DuraLED® Combi-R stop/rear position and rear direction indicator lamp with retro reflector and 6m sheathed multi-core cable
	1 x 2559-1	LED licence plate lamp with 5m sheathed multi-core cable
	1 x 4921	7 pole flat plug



DuraLED® Combi Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.





2380	2SK 980 603-501			
2380BULK	2SK 980 603-507			**PACK OF 12**
2380GMD	2SK 980 603-551			**NYLON (PA12) LENS**
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: Rear position: Rear direction indicator: Reverse:	5W 1W 4W 3W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 1/00 E24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02	ECE R23/00

See page 76 for DuraLED® accessories.

COMBINATION LAMP FUNCTIONS

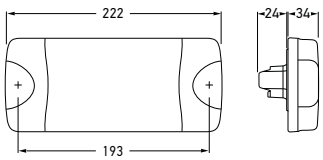


Stop	Rear position	Rear direction indicator	Reverse

DuraLED® Combi Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED® combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.





2380DT	2SK 980 615-011			
2380DTGMD	2SK 980 615-051			**NYLON (PA12) LENS**
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: Rear position: Night:	5W 1W 1W	Rear direction indicator: Reverse:	4W 3W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts		
Compliance	ADR 1/00 E24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02	ECE R23/00



4963-P
Not included with lamp.



Rear view showing DT connector that allows application of self-adhesive heat shrink.

DuraLED® Combi-SR Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with Retro Reflector

DuraLED® Combi-SR incorporates a built-in retro reflector, saving both time and money on installation. The all-in-one design makes the DuraLED® Combi-SR the ideal choice for trucks, utes and vehicles with limited space to mount a separate reflector.

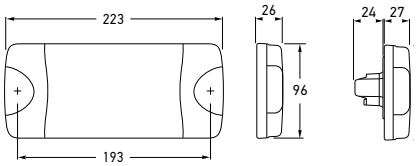




Rear view showing DT connector



4963-P
(not included with lamp)



2VP 015 074-001	**CARTON PACK**
2VP 015 074-002	**BLISTER PACK**
2VP 015 074-007	**PACK OF 12**
2VP 015 074-101	**HCS 12/24V**
2VP 015 075-001	**DT**
2VP 015 075-101	**DT, HCS 12/24V**

Mounting	Suitable for horizontal mounting Two hole surface mount with mounting bushes supplied
Voltage	Multivolt™ suitable for 12 and 24 volt systems
Power Consumption	Stop: 5W Rear position: 1.5W Rear direction indicator: 6W Reverse: 2W Night light: 1.5W (DT version only)
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable (non DT version)
Accessory	4963-P 6 pole DT plug, wedge and 6 contacts (DT version)
Lens Material	Nylon (PA12)
Compliance	ECE R148 ECE R150 ECE R10 ISO 13207-1 ADR 1/00, ADR 6/00 : Cat 2a, ADR 47/00, ADR 49/00

See page 76 for DuraLED® accessories.

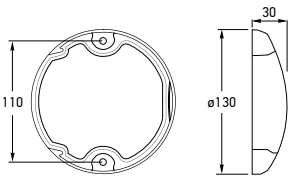
COMBI-SR LAMP FUNCTIONS

			
Stop	Rear position	Rear direction indicator	Reverse



EuroLED® Stop/Rear Position Lamp

EuroLED® stop, rear position lamp with red lens. The use of precision optics enables a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2366	2SB 959 821-001			
2366BL	2SB 959 821-002			BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts			
Power Consumption	Stop: 2.5W Rear position: 0.5W			
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 49/00	E4 10208	ECE R7/02	

See page 78 for EuroLED® accessories.





2366BL

EuroLED® Stop/Rear Position Lamp -24V DC

EuroLED® stop, rear position lamp with red lens. The use of precision optics enables a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

2366-24V	2SB 959 020-001			
Mounting	Two hole surface mount with mounting bushes supplied			
Voltage	24V DC (Voltage regulated 20-28V DC)			
Power Consumption	Stop: 5W Rear position: 1W			
Protection	As per Part No. 2366.			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 49/00	E4 10208	ECE R7/02	

See page 78 for EuroLED® accessories.



EuroLED® Reversing Lamp

EuroLED® reversing lamp with clear lens and single LED.

1433	2ZR 959 820-001			
1433BL	2ZR 959 820-002			BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts			
Power Consumption	2.5W			
Protection	As per Part No. 2366			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Compliance	ADR 1/00	E4 10208	ECE R23/00	

Reversing lamps are not designed for continuous operation.





1433BL

EuroLED® Rear Direction Indicator Lamp

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





2133BL

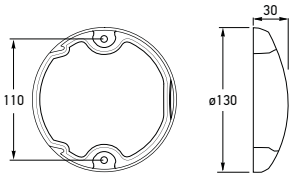
2133	2BA 959 822-001	
2133BL	2BA 959 822-002	BLISTER PACK
2133-CS	2BA 959 822-641	HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	2.5W	
Protection	As per Part No. 2366	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 6/00: Cat 2a E4 10208 ECE R6/01 ISO 13207-1 (2133-CS only)	

See page 276 for further information on HCS Technology and ISO 13207-1.
See page 78 for EuroLED® accessories.

EuroLED® Rear Direction Indicator Lamp - 24V DC

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



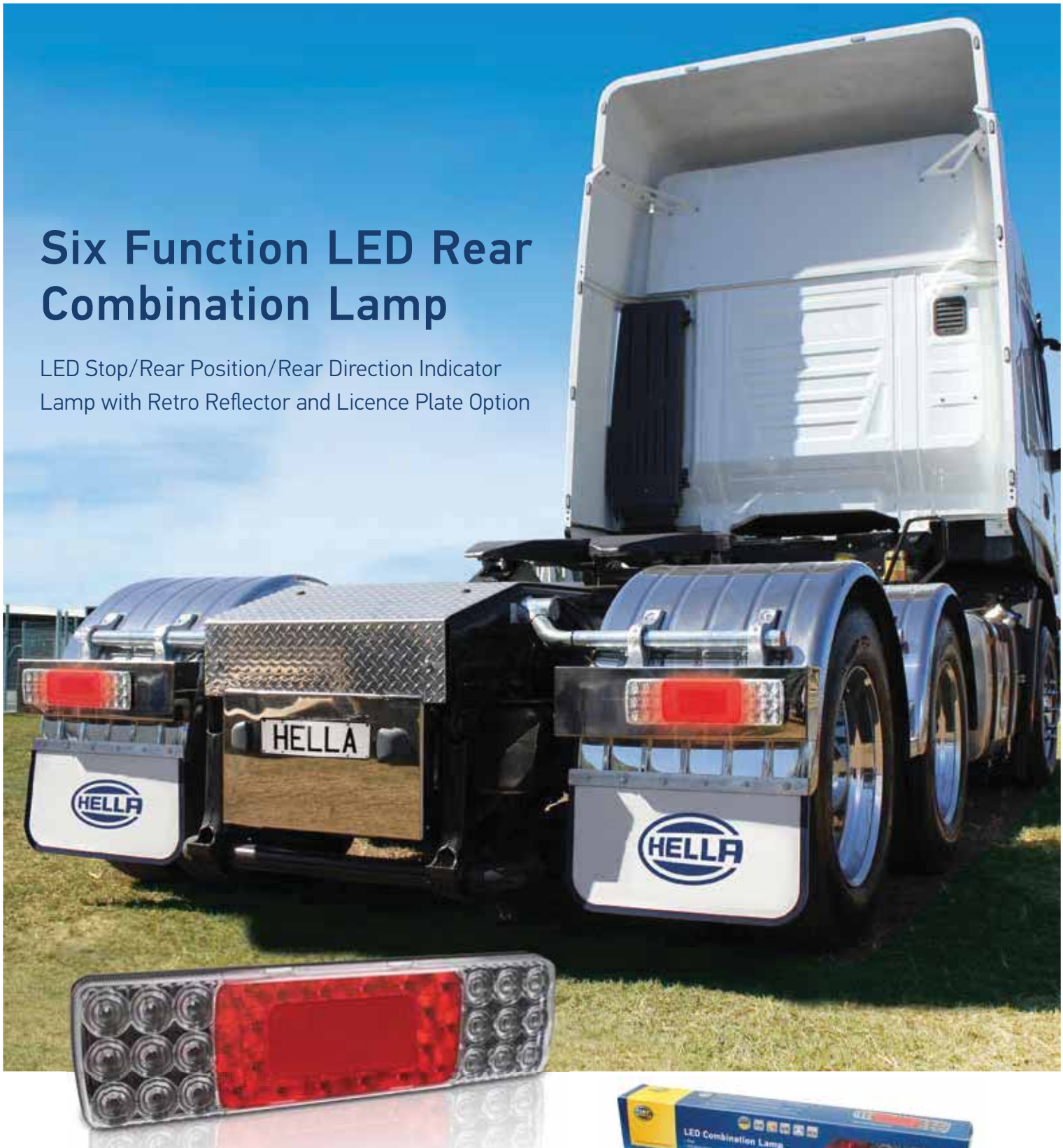


2133-24V	2BA 959 021-001
Mounting	Two hole surface mount with mounting bushes supplied
Voltage	24V DC (Voltage regulated 20-28V DC)
Power Consumption	5W
Protection	As per Part No. 2366
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Compliance	ADR 6/00: Cat 2a E4 10208 ECE R6/01

See page 78 for EuroLED® accessories.

Six Function LED Rear Combination Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector and Licence Plate Option





LED Combination lamp retail packaging

These stylish lamps combine form with function, incorporating stop, rear position, and rear direction indicator lamps with a central reflector, and offer an optional licence plate lamp function. To combine all rear marker and signal functions in a single lamp with a single five core cable allows for a significant reduction in installation time.

This lamp is protected by a lens made of specially formulated high impact acrylic, which is resistant to long-term harsh UV exposure and tolerant to chemicals commonly used in the transport industry. Our team designed this lamp to HELLA's Fit and Forget standard, to withstand the most demanding environments.

All features of this six function rear combination lamp, including the latest ISO 13207-1 compliance, are designed to ensure lowest cost of ownership for the astute transport operator.

LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector

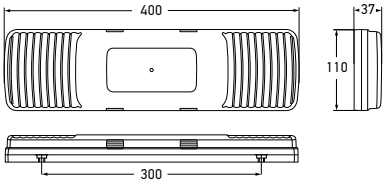
LED combination lamp with 64cm² red retro reflector. Modern clear lens design with black mounting base.

Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.





2391



2391	2VP 980 980-001	HCS TECHNOLOGY - 24V ONLY
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W Rear position: <2W Rear direction indicator: 6W Reverse: 5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1	

See page 276 for further information on HCS Technology and ISO 13207-1.

COMBINATION LAMP FUNCTIONS



Stop	Rear position	Rear direction indicator	Reverse

LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector and Licence Plate Function

LED combination lamp with 64cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base.

Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.





2392L

2392L	2VD 980 980-011 - Left Hand Side	HCS TECHNOLOGY - 24V ONLY
2392R	2VD 980 980-021 - Right Hand Side	HCS TECHNOLOGY - 24V ONLY
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W Rear position/Licence plate: <2W Rear direction indicator: 6W Reverse: 5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 48/00 ADR 49/00 ISO 13207-1	

See page 276 for further information on HCS Technology and ISO 13207-1.

COMBINATION LAMP FUNCTIONS



Stop	Rear position	Rear direction indicator	Reverse	Licence plate



2394	2VA 980 720-071	
2394BULK	2VA 980 720-077	PACK OF 18
2394-6M	2VA 980 720-021	
2394-6MBULK	2VA 980 720-027	PACK OF 10
2394-9MBULK	2VA 980 720-037	PACK OF 12

Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	Stop: Rear position: Rear direction indicator:	2W 1W 2W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	2394 2394-6M 2394-9M	Pre-wired with 0.5m of sheathed multi-core cable Pre-wired with 6m of sheathed multi-core cable Pre-wired with 9m of sheathed multi-core cable		
Spare Parts	9.2394.08 9.2394.09	Mounting base Mounting spacer (not included)		
Lens Material	Nylon (PA12)			
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00	

LED Stop/Rear Position /Rear Direction Indicator Lamp

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/ vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.





9.2394.09 Mounting spacer (not included)	2394

TRAILER LAMP FUNCTIONS



Stop	Rear direction indicator	Rear position





LED COMBINATION TRAILER LAMP

LED Stop/Rear Position/Rear Direction Indicator Lamp with Licence Plate Function

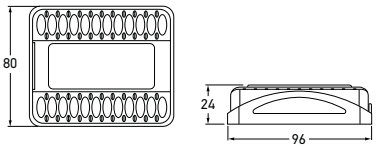
LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.





9.2394.09 Mounting spacer (not included)	2395





RF CommSafe™ | Lens Material: GMD | Power Supply: MULTI VOLT™ | Technology: EDT | Compliance: ADR COMPLIANCE

2395	2VB 980 720-561				
2395BULK	2VB 980 720-567				PACK OF 18
2395-6M	2VB 980 720-511				
2395-6MBULK	2VB 980 720-513				PACK OF 10
2395-9MBULK	2VB 980 720-527				PACK OF 12
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.				
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems				
Power Consumption	Stop: Rear position/Licence plate: Rear direction indicator:	2W 1W 2W			
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)				
Cable Length	2395 2395-6M 2395-9M	Pre-wired with 0.5m of sheathed multi-core cable Pre-wired with 6m of sheathed multi-core cable Pre-wired with 9m of sheathed multi-core cable			
Spare Parts	9.2394.08 9.2394.09	Mounting base Mounting spacer (not included)			
Lens Material	Nylon (PA12)				
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00	ADR 49/00	

TRAILER LAMP FUNCTIONS



Stop	Rear direction indicator	Rear position/ Licence plate

LED Combination Lamp Trailer Kit

LED trailer lamp incorporating a modern clear lens design with an 18cm² red retro reflector. The optic in the lamp appears clear until illuminated.

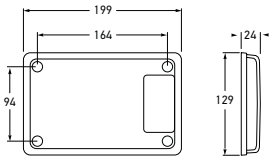


Compliance: ADR COMPLIANCE | Technology: EDT | Voltage: 12V | RF CommSafe™ | Lens Material: GMD

2395-TP	2VB 980 720-811		
2395-TP9M	2VB 980 720-861		9M CABLE
Lens Material	Acrylic		
Kit Contents	Each trailer lamp kit contains:		
	1 x 2394	Stop/rear position/rear direction indicator lamp with reflex reflector	
	1 x 2395	Stop/rear position/rear direction indicator/ licence plate lamp function with reflex reflector	
	8 x Connectors	Crimp connectors with heat shrink insulation	

Jumbo-S LED Stop /Rear Position Lamp

Jumbo-S LED stop, rear position lamp with inbuilt 23cm² red retro reflector, featuring Enhanced Definition Technology (EDT) for the stop signal function. New low profile design allows surface mounting with gasket accessory (Part No. 9.2361.08).







2361BL

2361	2TA 980 760-011	
2361BL	2TA 980 760-012	BLISTER PACK
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 47/00 ADR 49/00	

See page 79 for Jumbo-S accessories.

Jumbo-S LED Rear Direction Indicator Lamp

Jumbo-S LED rear direction indicator lamp with inbuilt 23cm² red retro reflector. New low profile design allows surface mounting with gasket accessory (Part No. 9.2361.08). Features HCS Technology with ISO 13207-1 compliance.





2161BL

2161	2BR 980 761-011	
2161BL	2BR 980 761-012	BLISTER PACK
2161-CS	2BR 980 761-021	HCS TECHNOLOGY - 24V ONLY
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	4W	
Protection	As per Part No. 2361	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ISO 13207-1 (2161-CS only)	

See page 276 for further information on HCS Technology and ISO 13207-1.

Jumbo-S LED Reversing Lamp

Jumbo-S LED reversing lamp with inbuilt 23cm² red retro reflector. New low profile design allows surface mounting with gasket accessory (Part No. 9.2361.08).



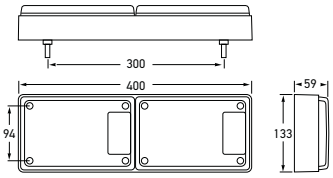


1461BL

1461	2ZR 980 762-011	
1461BL	2ZR 980 762-012	BLISTER PACK
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 1/00 ADR 47/00	
Reversing lamps are not designed for continuous operation.		

Jumbo-S LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance.

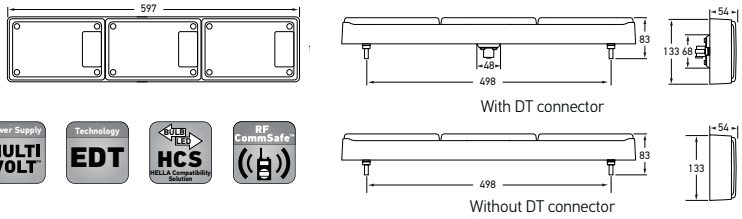






2429RET

2429	2VA 980 760-801	
2429-CS	2VA 980 761-801	HCS TECHNOLOGY - 24V ONLY
2429RET	2VA 980 760-802	
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2m of sheathed multi-core cable	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2429-CS only)	
See page 79 for Jumbo-S and Designline accessories.		



Jumbo-S LED Triple Module Stop /Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance.

2430	2VA 980 760-811	
2430-CS	2VA 980 761-811	HCS TECHNOLOGY - 24V ONLY
2430RET	2VA 980 760-812	
2430DTCS	2VA 980 761-941	HCS TECHNOLOGY - 24V ONLY, DT
Mounting	As per Part No. 2429-CS	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop: 5W x 2 Rear position: 1W x 2 Rear direction indicator: 4W	
Protection	As per Part No. 2429-CS	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2430-CS and 2430DTCS only)	





2430RET

Jumbo-S LED Triple Module Stop /Rear Position/Rear Direction Indicator/Reversing Lamp

Jumbo-S LED stop, rear position, rear direction indicator and reversing lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 276 for further information on HCS Technology and ISO 13207-1).

2431	2VP 980 760-821	
2431-CS	2VP 980 761-821	HCS TECHNOLOGY - 24V ONLY
2431RET	2VA 980 760-822	
2431DTCS	2VA 980 761-951	HCS TECHNOLOGY - 24V ONLY, DT
Mounting	As per Part No. 2429-CS	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	Stop 5W Rear position: 1W Rear direction indicator: 4W Reversing: 4W	
Protection	As per Part No. 2429-CS	
Cable Length	Pre-wired with 2m of sheathed multi-core cable	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2431-CS and 2431DTCS only)	





2431RET

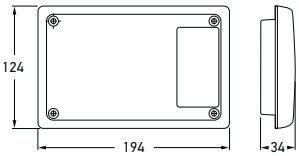
Jumbo LED Module Stop /Rear Position Lamp with Red Retro Reflector

Jumbo LED Multivolt™ module designed to update existing Jumbo or Designline lamps with Enhanced Definition Technology (EDT). Reflector area 33cm².





2317BL



2317	2TA 959 030-101	
2317BL	2TA 959 030-102	BLISTER PACK
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Stop: 6W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 47/00 ADR 49/00	

See page 79 for Designline accessories.

Jumbo LED Module Rear Direction Indicator Lamp with Red Retro Reflector

Jumbo LED Multivolt™ module designed to update existing Jumbo or Designline lamps. Reflector area 33cm².



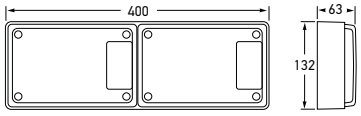


2138BL

2138	2BR 959 031-011	
2138BL	2BR 959 031-012	BLISTER PACK
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 2a ADR 47/00	

Jumbo LED Double Module Stop /Rear Position/Rear Direction Indicator Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with in-built retro reflector.

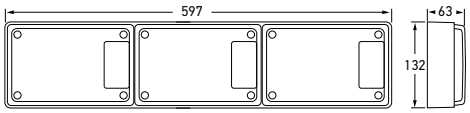




2422LED	2VA 959 030-421
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems
Power Consumption	Stop: 6W Rear position: 1W Rear direction indicator: 6W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00

Jumbo LED Triple Module Stop /Rear Position/Rear Direction Indicator Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with in-built retro reflector.



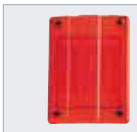


2416LED	2VA 959 030-321
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems
Power Consumption	Stop: 6W x 2 Rear position: 1W x 2 Rear direction indicator: 6W x 1
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00

Designline LED Module Stop /Rear Position Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

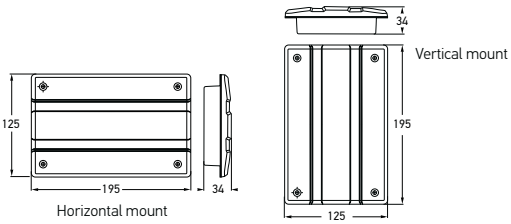




2332-V24



2332-H24BL



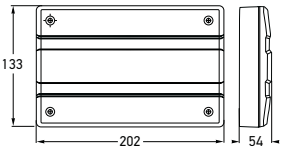
2332-H24	2SB 959 040-501	HORIZONTAL
2332-H24BL	2SB 959 040-502 – Blister Pack	HORIZONTAL
2332-V24	2SB 959 040-701	VERTICAL
Mounting	Four point recess mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Stop: 6W Rear position: 2W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 49/00	

See page 79 for Designline accessories.

Designline LED Module Stop /Rear Position Lamp

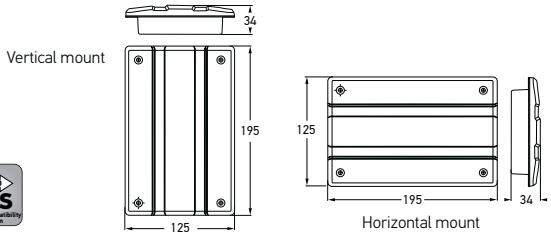
Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





2320LED-H	2SB 959 040-561	HORIZONTAL
Mounting	Four point recess mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Stop: 6W Rear position: 2W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 49/00	

See page 79 for Designline accessories.



2146-H24	2BA 959 041-501	HORIZONTAL
2146-H24BL	2BA 959 041-502 – Blister Pack	HORIZONTAL
2146-HCS	2BA 959 041-511 – Incorporates HCS Technology	HORIZONTAL
2146-V24	2BA 959 041-701	VERTICAL
2146-VCS	2BA 959 041-711 – Incorporates HCS Technology	VERTICAL
Mounting	Four point recess mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Part No. 2146-H24/2146-V24: 6W Part No. 2146-HCS/2146-VCS: 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 2a ISO 13207-1 (2146-HCS or 2146-VCS only)	

See page 276 for further information on HCS Technology and ISO 13207-1.

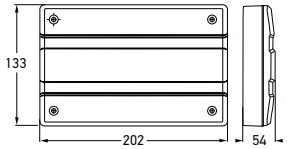
Designline LED Module Rear Direction Indicator Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





2146-H24BL | 2146-V24



2144LED-H	2BA 959 041-111	HORIZONTAL
Mounting	Four point surface mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	6W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 2a	

Designline LED Module Rear Direction Indicator Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



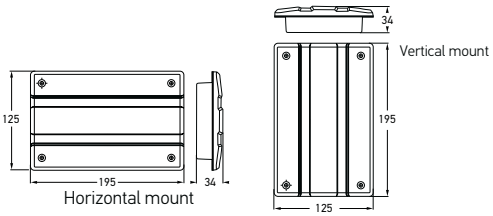
Designline LED Module Reversing Lamp

Designline LED Multivolt™ module designed to update existing Designline lamps. The high performance module features 36 High Efficacy LEDs that more than triples the raw lumen output over the standard module. High precision optics ensure ADR compliance by focusing the majority of light down ensuring wide illumination and improved safety when reversing.





1446-V

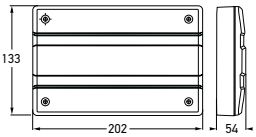


1446-H	2ZR 959 041-321	HORIZONTAL
1447L	2ZR 959 041-371 – High performance - Left hand side	
1447R	2ZR 959 041-361 – High performance - Right hand side	
1446-V	2ZR 959 041-411	VERTICAL
Mounting	Four point recess mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Part No. 1446-H/1446-V: 4W Part No.. 1447L/1447R: 7W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 1/00	
Reversing lamps are not designed for continuous operation.		

Designline LED Module Reversing Lamp

Designline LED Multivolt™ module designed to update existing globe type Jumbo or Designline lamps.



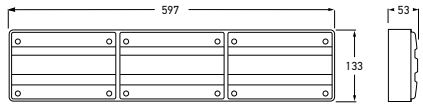


2041LED-H	2ZR 959 041-331	HORIZONTAL
Mounting	Four point surface mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 250mm of cable	
Compliance	ADR 1/00	
Reversing lamps are not designed for continuous operation.		

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

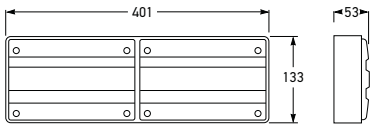
LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp featuring EDT (Enhanced Definition Technology) for the stop signal function and unique UWVO (Ultra Wide Visibility Optics) for significantly improved side visibility.





2424LED-H	2SK 959 040-531				HORIZONTAL
Mounting	Surface mount with mounting bolts supplied				
Voltage	Multivolt™ for optimum brightness in 9 and 33 volt systems				
Power Consumption	Stop Rear position:	6W 2W	Rear direction indicator: Reverse:	6W 21W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)				
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable				
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00	
The reversing lamp is a standard globe unit and must have correct 12V globe (included) or 24V globe fitted.					

Designline LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp



Horizontal mount

Double Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts to ensure lamp does not need to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

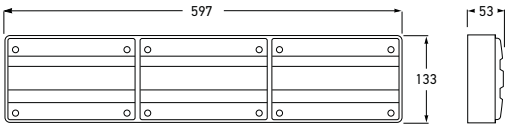



2426-HRET

2426-H	2SD 959 040-801		HORIZONTAL
2426-V	2SD 959 040-901		VERTICAL
2426-HRET	2SD 959 040-802		
Mounting	Two bolt surface mount		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	Stop: Rear position: Rear direction indicator:	6W 2W 6W	
Cable Length	Pre-wired with 2m of multi-core cable		
Spare Part	9.2422.09	Double housing	
Compliance	ADR 6/00: Cat 2a	ADR 49/00	

See page 79 for Designline accessories.

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator Lamp



Horizontal mount

Triple Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts to ensure lamp does not need to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.




2427-HRET

2427-H	2SD 959 040-811		HORIZONTAL
2427-HRET	2SD 959 040-812		
Mounting	Two bolt surface mount		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	Stop: Rear position: Rear direction indicator:	6W x2 2W x 2 6W x 1	
Cable Length	Pre-wired with 2m of multi-core cable		
Spare Part	9.2423.09	Triple housing	
Compliance	ADR 6/00: Cat 2a	ADR 49/00	

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp




2428-HRET

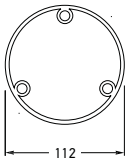
2428-H	2SK 959 041-811			HORIZONTAL
2428-V	2SK 959 041-911			VERTICAL
2428-HRET	2SK 959 041-812			
Mounting	Two bolt surface mount			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts			
Power Consumption	Stop: Rear position: Rear direction indicator: Reverse:	6W 2W 6W 4W		
Cable Length	Pre-wired with 2m of multi-core cable			
Spare Part	9.2423.09	Triple housing		
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 49/00	

Reversing lamps are not designed for continuous operation.

110mm Round LED Front Position /Front Direction Indicator Lamp – Clear Lens

LED front direction indicator and front position lamp specifically designed for commercial transport, buses, caravans and trailers. Direction indicator optic appears clear until illuminated.





2106-CS	2BE 959 932-132 – Incorporates HCS Technology			MODULE
Mounting	Mount only with lens engraving "TOP" located correctly			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts			
Power Consumption	Front position: Front direction indicator:	<1W 3W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 200mm of cable			
Compliance	ADR 6/00: Cat 1 ECE R7/02	ADR 49/00 E24 5851	ECE R6/01 ISO 13207-1	

See page 276 for further information on HCS Technology and ISO 13207-1.

LAMP FUNCTIONS



Front position	Direction indicator

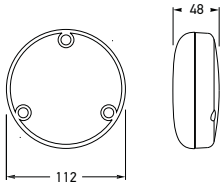
110mm Round LED Front Direction Indicator Lamp – Clear Lens

LED front direction indicator specifically designed for trucks, buses and motor homes. Optic appears clear until illuminated.



2105CLR	2BA 959 932-211	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 1	

See page 276 for further information on HCS Technology and ISO 13207-1.



Black base

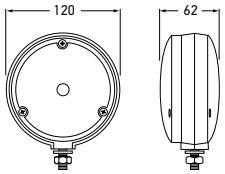
110mm Round LED Front Direction Indicator Lamp – Amber Lens

LED front direction indicator specifically designed for trucks, buses and motor homes.



2135LED	2BA 959 932-311	BLACK BASE
2105	2BA 959 932-201	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Part No. 2135LED/2105: 4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 1	

See page 276 for further information on HCS Technology and ISO 13207-1.



LED Front Direction Indicator Lamp (Cat.1)

Single-sided LED front direction indicator fitted with high-intensity LED insert and black housing. Fully sealed to withstand high-pressure washing.



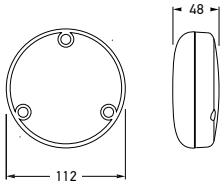
2128LED	2BA 959 932-301	AMBER LENS
Mounting	Single bolt mount	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 1	

110MM ROUND LED - REAR

110mm Round LED Stop /Rear Position Lamp

110mm round LED stop, rear position lamp specifically designed for commercial transport, buses, caravans and trailers. Features low power consumption and impact resistant acrylic lens.





Black base

2367	2SB 959 931-111	**BLACK BASE**
2365	2SB 959 931-001	**MODULE**
Mounting	Mount only with lens engraving "TOP" located correctly	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 49/00	

110mm Round LED Rear Direction Indicator Lamp



2167	2BA 959 932-711	**BLACK BASE**
2165	2BA 959 932-501	**MODULE**
Mounting	Mount only with lens engraving "TOP" located correctly	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	3W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 6/00: Cat 2a	

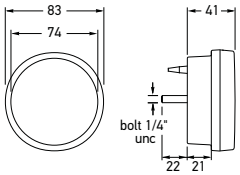
See page 276 for further information on HCS Technology and ISO 13207-1.

110mm Round LED Reversing Lamp



1467	2ZR 959 930-111	**BLACK BASE**
1465	2ZR 959 930-001	**MODULE**
Mounting	Mount only with lens engraving "TOP" located correctly	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	5W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable	
Compliance	ADR 1/00	

Reversing lamps are not designed for continuous operation.



83mm Round LED Safety DayLights/Front Position /Front Direction Indicator Lamp

This LED combination lamp features an integrated Safety DayLight™, front position indicator and front position function.
The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight™. This lamp eliminates the need for installation of multiple lamps.



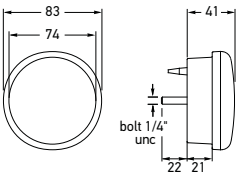
2108-GMD	2BE 980 687-111			**12 VOLT DC**
2108-GMD24V	2BE 980 686-011			**24 VOLT DC**
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied			
Power Consumption		2108-GMD	2108-GMD24V	
	Safety DayLights:	4W	4W	
	Front position:	1W	1W	
	Front direction indicator:	3W	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Lens Material	Nylon (PA12)			
Compliance	ADR 6/00: Cat 1 E24 5854	ADR 49/00 ECE R6/01	ADR 76/00 ECE R7/02	ECE R87/00

See page 79 for mounting accessories.

83MM LAMP FUNCTIONS

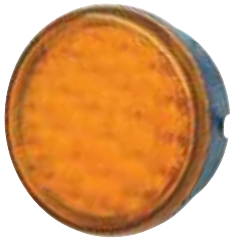


LED Safety DayLights	Front position	Front direction indicator



83mm Round LED Front Direction Indicator Lamp

Compact, low profile LED front direction indicator fitted with amber polycarbonate lens. Fully sealed to withstand high-pressure washing.



2107	2BA 959 011-112	**PACK OF 2**
2107BULK	2BA 959 011-113	**PACK OF 10**
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 6/00: Cat 1	

83MM ROUND LED - REAR

83mm Round LED Stop /Rear Position Lamp

83mm diameter LED stop, rear position lamp with single bolt mount, featuring Enhanced Definition Technology (EDT). Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

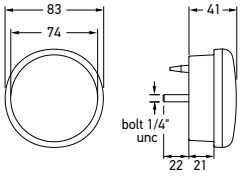




2390 Rear position



2390BL

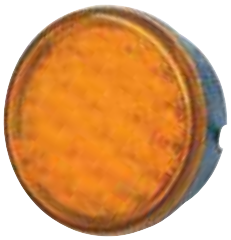


2390	2SB 959 010-031	PACK OF 2
2390BL	2SB 959 010-041	BLISTER PACK
2390BULK	2SB 959 010-037	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 49/00 E4 11391 ECE R7/02	

See page 79 for mounting accessories.

83mm Round LED Rear Direction Indicator Lamp

83mm diameter LED rear direction indicator lamp with single bolt mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.





2130BL

2130	2BA 959 011-011	PACK OF 2
2130BL	2BA 959 011-031	BLISTER PACK
2130BULK	2BA 959 011-003	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	2W	
Protection	As per Part No. 2390	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 6/00: Cat 2a E4 11391 ECE R6/01	

Contact HELLA for 24 volt HCS version.

83mm Round LED Reversing Lamp

83mm diameter LED reversing lamp with single bolt mount.

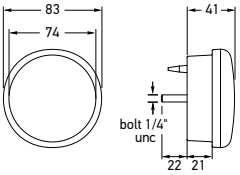




1490BL

1490	2ZR 959 010-511	PACK OF 2
1490BL	2ZR 959 010-521	BLISTER PACK
Mounting	Flush Mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	4W	
Protection	As per Part No. 2390	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	ADR 1/00 E4 11391 ECE R23/00	

Reversing lamps are not designed for continuous operation.



83mm Round LED Stop/ Rear Position/Rear Direction Indicator Lamp

83mm diameter LED stop, rear position and rear direction indicator lamp with single bolt mount.

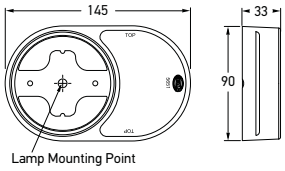


2399	2SD 959 010-202		PACK OF 2
2399BL	2SD 959 010-231		BLISTER PACK
2399BULK	2SD 959 010-217		PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems		
Power Consumption	Stop: Rear position: Rear direction indicator:	3W 1W 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Bulk pack pre-wired with 6m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a E9 1538	ADR 49/00 ECE R6/01	ECE R7/02

Contact HELLA for 24 volt HCS version. See page 79 for mounting accessories.



2399BL



Red Retro Reflector Base

Red retro reflector to suit 83mm round lamps. Reflector area 31.7cm².



2934-H	8RA 980 565-102	HORIZONTAL
2934-V	8RA 980 565-502	VERTICAL
Mounting	Utilises bolt mount from 83mm round lamps	
Compliance	ADR 47/00	

LED Front Direction Indicator Lamp – Surface Mount

Surface mount LED front direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

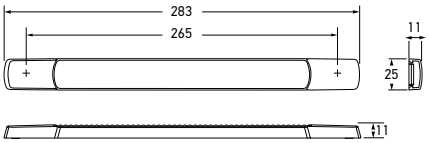




Ultra slim height of only 11mm. Lamp shown active.



2109BL



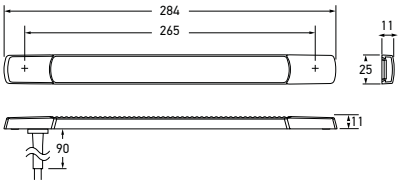
2109	2BA 980 888-301 – Horizontal Mount	12 VOLT DC
2109BL	2BA 980 888-322 – Blister Pack - Horizontal Mount	
2109-24V	2BA 980 888-401 – Horizontal Mount	24 VOLT DC
2109-24VBL	2BA 980 888-422 – Blister Pack - Horizontal Mount	
2109V	2BA 980 888-501 – Vertical Mount	12 VOLT DC
2109V-24V	2BA 980 888-601 – Vertical Mount	24 VOLT DC
Power Consumption	3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)	
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 1 Horizontal E24 5869 Vertical E24 5890 ECE R6/01	
See page 80 for surface mount strip lamp screw caps.		

LED Slim Surface Mount Combination Lamp

The Surface Mount Strip lamp features an extremely durable Nylon (PA12) lens that is impact, UV and chemical resistant. Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



2110-24V
LED Slim Surface Mount Combination Lamp
Front Direction Indicator/Front Position



2110-12V	2BE 980 819-301	12 VOLT
2110-24V	2BE 980 819-401	24 VOLT
Mounting	Suitable for horizontal and vertical mounting	
Power Consumption	Front position: <1W Front direction indicator: 3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Spare Parts	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome screw caps (Pack of 4)	
Compliance	ADR 49/00 ADR 6/00: Cat 1	
Includes mounting screws and charcoal screw caps.		

LAMP FUNCTIONS



Front position



Front direction indicator

LED Rear Direction Indicator Lamp – Surface Mount

Surface mount LED rear direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





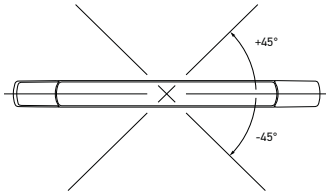
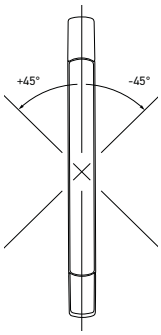
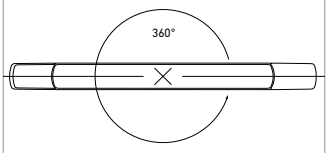
Ultra slim height of only 11mm. Lamp shown active.



2168BL

2168	2BA 980 888-001		**12 VOLT DC**
2168BL	2BA 980 888-022 – Blister Pack		
2168-24V	2BA 980 888-201		**24 VOLT DC**
2168-24VBL	2BA 980 888-222 – Blister Pack		
Mounting	Suitable for horizontal and vertical mounting		
Power Consumption	3W		
Protection	As per Part No. 2109		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)		
Lens Material	Nylon (PA12)		
Compliance	ADR 6/00: Cat 2a	E24 5891	ECE R6/01

MOUNTING DIAGRAMS

PART NO. 2109/...-24V	PART NO. 2109V/...-24V	PART NO. 2168/...-24V
		
Horizontal mount: +/- 45° rotation around lamp (and vehicle) axis	Vertical mount: +/- 45° rotation around lamp (and vehicle) axis	Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis

LED Stop/Rear Position Lamp – Surface Mount

Surface mount LED stop/rear position lamp that features Enhanced Definition Technology (EDT) and is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

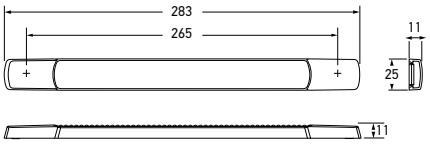




Ultra slim height of only 11mm. Lamp shown active.



2318BL



RF CommSafe™ | Technology EDT | Visibility Optic Wide | Lens Material GMD | Compliance ADR COMPLIANCE

2318	2SB 980 887-001	**12 VOLT DC**
2318BL	2SB 980 887-002 – Blister Pack	
2318-24V	2SB 980 887-201	**24 VOLT DC**
2318-24VBL	2SB 980 887-202 – Blister Pack	
Mounting	Suitable for horizontal and vertical mounting	
Power Consumption	Stop: 3W Rear Position: <0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.3m cable	
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

STOP / REAR POSITION LAMP FUNCTIONS



Stop



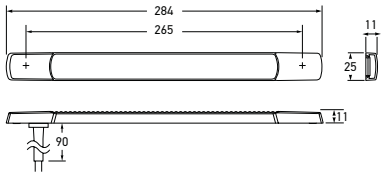
Rear position

LED Slim Surface Mount Combination Lamp

The Surface Mount Combination lamp features an extremely durable nylon (PA12) lens that is impact, UV and chemical resistant. Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



2375-24V
LED Slim Surface Mount Combination Lamp
Stop/Rear Position/Rear Direction Indicator (Stop function shown)



RF CommSafe™ | Lens Material GMD | Compliance ADR COMPLIANCE

2375-12V	2SD 980 819-001	**12 VOLT**
2375-24V	2SD 980 819-221	**24 VOLT**
Mounting	Suitable for horizontal and vertical mounting	
Power Consumption	Stop: 2W Rear position: <0.5W Rear direction indicator: 2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Spare Parts	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome screw caps (Pack of 4)	
Compliance	ADR 49/00 ADR 6/00: Cat 2a E24 5902 ECE 6/01 ECE 7/02	
Includes mounting screws and charcoal screw caps.		

LAMP FUNCTIONS



Rear position



Rear direction indicator

LED Reversing Lamp – Surface Mount

Surface mount LED reversing lamp. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



1468	2ZR 980 889-001 – Horizontal Mount	**12 VOLT DC**
1468BL	2ZR 980 889-022 – Blister Pack - Horizontal Mount	
1468-24V	2ZR 980 889-201 – Horizontal Mount	**24 VOLT DC**
1468-24VBL	2ZR 980 889-222 – Blister Pack - Horizontal Mount	
1468V	2ZR 980 889-101 – Vertical Mount	**12 VOLT DC**
1468V-24V	2ZR 980 889-301 – Vertical Mount	**24 VOLT DC**
Power Consumption	3W	
Protection	As per Part No. 2318	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)	
Lens Material	Nylon (PA12)	
Compliance	ADR 1/00 Horizontal E24 0027 Vertical E24 0028 ECE R23/00	
Reversing lamps are not designed for continuous operation.		

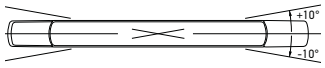
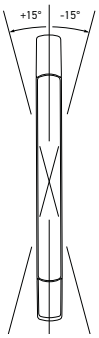


Ultra slim height of only 11mm. Lamp shown active.



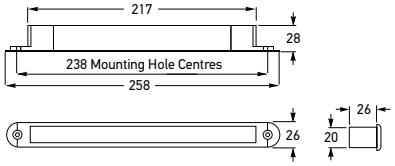
1468BL

MOUNTING DIAGRAMS

PART NO. 1468/...-24V	PART NO. 1468V/...24V
	
Horizontal mount: +/- 10° rotation around lamp (and vehicle) axis	Vertical mount: +/- 15° rotation around lamp (and vehicle) axis

LED Stop/Rear Position Lamp

Red LED strip lamp suitable for coaches and buses, featuring Enhanced Definition Technology (EDT).





2334	2SB 959 074-501	**12 VOLT DC**
2334-24V	2SB 959 074-001	**24 VOLT DC**
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	Stop: 2W Rear position: 0.3W	
Protection	Reverse polarity protection	
Cable Length	Pre-wired with 300mm of cable	
Spare Part	9.5243.05 Gasket	
Compliance	ADR 49/00	

LED Rear Direction Indicator Lamp

Amber LED strip lamp suitable for coaches and buses.



2156	2BA 959 075-501	**12 VOLT DC**
2156-24V	2BA 959 075-001	**24 VOLT DC**
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable	
Spare Part	9.5243.05 Gasket	
Compliance	ADR 6/00: Cat 2a	

LED High Level Brake Lamp

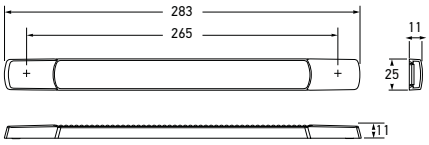
Strip LED lamp designed for rear spoiler applications.



5243	2DA 959 071-591	**12 VOLT DC**
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.5243.05 Gasket	
Compliance	ADR 49/00: Cat S3 E4 02 7547 ECE R7/02	

LED Centre High Level Brake Lamp – Surface Mount

Surface mount LED high level brake lamp that is designed with an ultra wide visibility optic to suit a wide range of mounting positions and angles. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



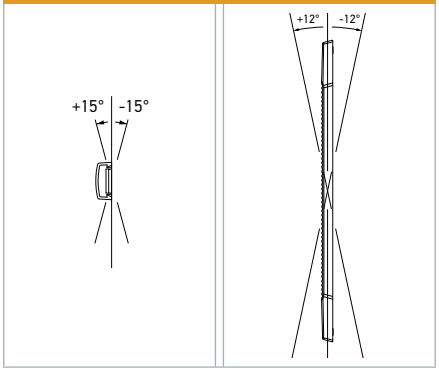




Ultra slim height of only 11mm. Lamp shown active.

5245	2DA 980 887-301		**12 VOLT DC**
5245-24V	2DA 980 887-401		**24 VOLT DC**
Mounting	Suitable for horizontal or vertical mounting		
Power Consumption	3W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	Nylon (PA12)		
Accessories	9.2652.09 9.1009.09 9.1009.10	White screw caps (Pack of 4) Charcoal screw caps (Pack of 4) Chrome plated screw caps (Pack of 4)	
Compliance	ADR 49/00: Cat S3	E24 02 0087	ECE R7/02

MOUNTING DIAGRAMS

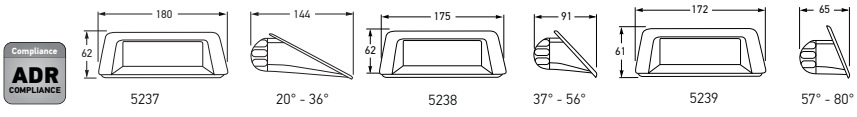


Horizontal mount: +/- 15° tilt (up/down)

Vertical mount: +/- 12° tilt (up/down)

LED Centre High Level Brake Lamp

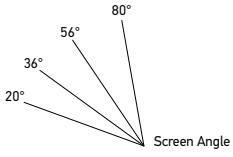
Designed for rear windows of angles from 20° (Coupe) to 80° (Wagon). Supplied with installation kit and instruction sheet. Optic appears clear until illuminated.





5237
Shown illuminated

5237	2DA 959 190-001 – **Coupe**	**20° - 36°**	**12 VOLT DC**
5238	2DA 959 191-001 – **Sedan**	**37° - 56°**	
5239	2DA 959 192-001 – **Wagon**	**57° - 80°**	
Mounting	Adhesive mounting tape. Window angles for Coupe are 20°- 36°, Sedan 37° - 56° and Wagon 57° - 80°		
Voltage	12V DC		
Power Consumption	3W		
Cable Length	Pre-wired with 2.5m of multi-core cable		
Compliance	ADR 49/00: Cat S3		



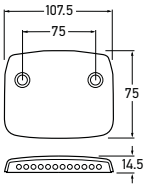


5238	5239

LED Lift Platform Rear Direction Indicator – Amber

Low-profile LED Rear Direction Indicator for mounting on lift and loading platforms. Features robust die-cast zinc housing and impact-resistant polycarbonate lens for increased durability. Optic appears clear until illuminated in amber signal colour.

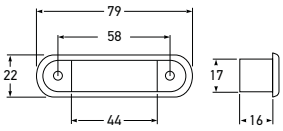




2103-12V	2BA 008 260-012	**12 VOLT DC**
2103-24V	2BA 008 260-002	**24 VOLT DC**
Mounting	Surface mount. M6 x 25mm mounting bolts included.	
Power Consumption	2.8W	
Protection	Sealed against dust and moisture to IP5K9K	
Cable Length	Pre-wired with 2.5m of cable	
Compliance	ADR 6/00 Cat 2a	
To be used in conjunction with primary vehicle rear direction indicators.		

LED Flush Mount Front Position /End Outline Lamp

White front position or front end outline LED lamp (FEOL). Optic appears clear until illuminated.





2055	2PF 959 590-491			
2055BULK	2PF 959 590-547			PACK OF 4
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems			
Power Consumption	<1W			
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.			
Compliance	ADR 49/00	E4 0054	ECE R7/02	

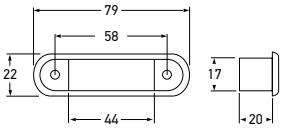
See page 80 for spare parts and accessories.



2055

LED Flush Mount Front End Outline Lamp

Amber front end outline LED lamp (FEOL) for trailers only. Optic appears clear until illuminated.



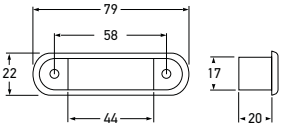


2056	2PF 959 590-341			
2056BULK	2PF 959 590-357			PACK OF 4
Mounting	Suitable for horizontal mounting			
Compliance	ADR 49/00			

Other specifications as per Part No. 2055. See page 80 for spare parts and accessories.

LED Flush Mount Cab Marker Lamp

Amber cab marker LED lamp. Optic appears clear until illuminated.



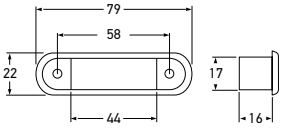


2057	2XS 959 650-011			
2057BULK	2XS 959 650-027			PACK OF 4
Mounting	Suitable for horizontal mounting			
Compliance	ADR 45/01			

Other specifications as per Part No. 2055. See page 80 for spare parts and accessories.

LED Flush Mount Rear Position /End Outline Lamp

Red rear end outline lamp (REOL) or rear position LED lamp. Optic appears clear until illuminated.





2308	2BA 959 610-441			
2308BULK	2BA 959 610-457			PACK OF 4
Compliance	ADR 49/00	E4 02 7597	ECE R7/02	

Other specifications as per Part No. 2055. See page 80 for spare parts and accessories.

DuraLED® Flush Mount Side Marker Lamp

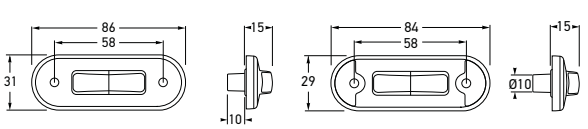
Red/amber surface mount side marker lamp. Featuring a low profile of only 15mm and an ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated. Optional stainless steel rim.







2083S



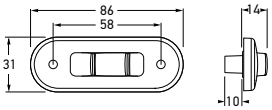
Stainless steel rim version

RF CommSafe™ | Lens Material GMD | Power Supply MULTI VOLT™ | Compliance ADR COMPLIANCE

2083	2PS 980 868-041	
2083BULK	2PS 980 868-057 – Pack of 16	
2083OEBULK	2PS 980 868-047 – Pack of 24	
2083S	2PS 980 868-061	POLISHED STAINLESS STEEL RIM
2083SBULK	2PS 980 868-077 – Pack of 16	

Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	

See page 77 for DuraLED® marker lamp accessories.



Stainless steel rim version

2086	2BM 980 868-301	
2086BULK	2BM 980 868-317 – Pack of 16	
2086S	2BM 980 868-321	POLISHED STAINLESS STEEL RIM
2086SBULK	2BM 980 868-337 – Pack of 16	
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09-BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 5	

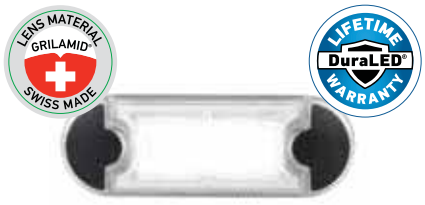
Duraled® Flush Mount Supplementary Side Direction Indicator Lamp (Cat. 5)

The marker lamps feature a low profile of only 14mm and an ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



DuraLED® Flush Mount Front Position/End Outline Lamp

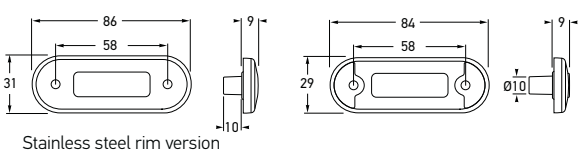
White surface mount front position or front end outline LED lamp (FEOL) with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





2059S	2059





Stainless steel rim version

RF CommSafe™ | Compliance: ADR COMPLIANCE | Power Supply: MULTI VOLT™ | Lens Material: GMD

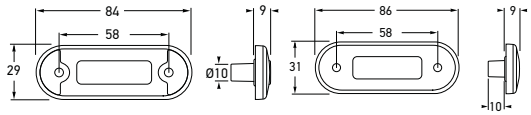
2059	2PF 980 855-011	
2059BULK	2PF 980 855-037 – Pack of 16	
2059OEBULK	2PF 980 855-017 – Pack of 24	
2059S	2PF 980 855-021	**POLISHED STAINLESS STEEL RIM**
2059SBULK	2PF 980 855-047 – Pack of 16	
Mounting	Surface mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

See page 77 for DuraLED® marker lamp accessories.

DuraLED® Flush Mount Front End Outline Lamps

Amber surface mount front end outline LED lamp (FEOL) for trailers with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





Stainless steel rim version

2060	2PF 980 855-201	
2060BULK	2PF 980 855-227 – Pack of 16	
2060S	2PF 980 855-211	**POLISHED STAINLESS STEEL RIM**
2060SBULK	2PF 980 855-237 – Pack of 16	
Mounting	Surface mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

See page 77 for DuraLED® marker lamp accessories.



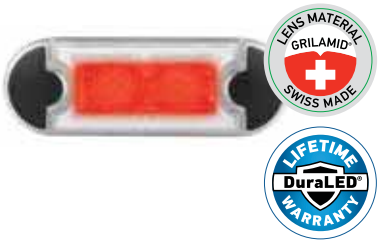
2060S



Ultra slim design
Featuring a thickness of just 9mm

DuraLED® Flush Mount Rear Position/End Outline Lamps

Red surface mount rear position or rear end outline LED lamp (REOL) with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



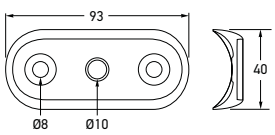
2310	2XA 980 855-301	
2310BULK	2XA 980 855-327 – Pack of 16	
2310OEBULK	2XA 980 855-307 – Pack of 24	
2310S	2XA 980 855-311	**POLISHED STAINLESS STEEL RIM**
2310SBULK	2XA 980 855-337 – Pack of 16	

Other specifications as per Part No. 2060.

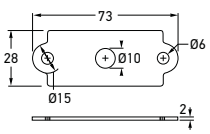


2310S

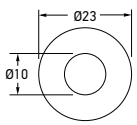
DuraLED® Flush Mount Gaskets



9GD958028001



9GD980867507



9GD980867007

9GD 980 867-007	**SEAL ROUND**
9GD 980 867-507	**SEAL RECTANGULAR**
9GD 958 028-001	**SEAL CURVED**



9GD980867007



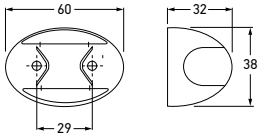
9GD980867507



9GD958028001

DuraLED® Side Marker Lamps

Red/amber side marker LED lamp.
Optic appears clear until illuminated.







2053 | 2053CHROME

2053	2PS 959 660-581	
2053BULK	2PS 959 660-502	PACK OF 4
2053OEBULK	2PS 959 660-587	PACK OF 24
2053-5MBULK	2PS 959 660-737 – 5m cable	PACK OF 60
2053CHROME	2PS 959 660-691	CHROME PLATED
Mounting	Surface mount.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Part No. 2053BULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 45/01	

See page 77 for DuraLED® marker lamp accessories.

DuraLED® Side Marker Lamps - Nylon (PA12)

Red/amber ultra high impact resistant side marker LED lamp featuring nylon (PA12) lens and nylon housing. Optic appears clear until illuminated.



2053GMD	2PS 959 660-481	
2053GMDBULK	2PS 959 660-477	PACK OF 4
2053GMDOEBULK	2PS 959 660-487	PACK OF 24
2053GMDDT	2PS 959 660-711 – 250mm cable with DT	
Mounting	Surface mount	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	As per Part No. 2053	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Part No. 2053GMDBULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	

DuraLED® Cab Marker/ Supplementary Side Direction Indicator Lamps (Cat. 5)

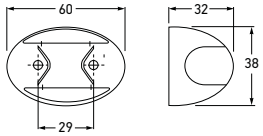
Amber cab marker or supplementary side indicator LED lamp. Optic appears clear until illuminated.



2026	2BP 959 660-301	
2026BULK	2BP 959 660-357	PACK OF 4
2026DT	2JA 959 660-361 – 250mm cable with DT	
Mounting	Surface mount	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	As per Part No. 2053	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 6/00: Cat 5	ADR 45/01

DuraLED® Front Position /End Outline Lamps

White ultra high impact resistant front end outline (FEOL) or front position LED lamp featuring nylon (PA12) lens on 2054GMD and nylon housing. Optic appears clear until illuminated.



2054	2PF 959 570-491	
2054BULK	2PF 959 570-557	PACK OF 4
2054DT	2PF 959 570-531 – 250mm cable with DT	
2054GMD	2PF 959 570-501 – With Nylon (PA12) Lens	
2054GMDBULK	2PF 959 570-517 – With Nylon (PA12) Lens	PACK OF 4
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 49/00	

See page 77 for DuraLED® marker lamp accessories.





2054

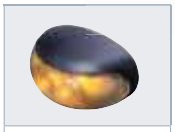
DuraLED® Front End Outline Lamps

Amber ultra high impact resistant front end outline (FEOL) LED lamp for trailers featuring nylon (PA12) lens on 2051GMD and nylon housing. Optic appears clear until illuminated.

2051	2PF 959 570-301	
2051BULK	2PF 959 570-357	PACK OF 4
2051DT	2PF 959 570-361 – 250mm cable with DT	
2051GMD	2PF 959 570-101 – With Nylon (PA12) Lens	
2051GMDBULK	2PF 959 570-117 – With Nylon (PA12) Lens	PACK OF 4

Other specifications as per Part No.2054.





2051

DuraLED® Rear Position/ End Outline Lamps

Red ultra high impact resistant rear end outline (REOL) or rear position LED lamp featuring nylon (PA12) lens on 2307GMD and nylon housing. Optic appears clear until illuminated.

2307	2BA 959 560-431	
2307BULK	2TM 959 560-517	PACK OF 4
2307DT	2JA 959 560-481 – 250mm cable with DT	
2307GMD	2TM 959 560-101 – With Nylon (PA12) Lens	
2307GMDBULK	2TM 959 560-117 – With Nylon (PA12) Lens	PACK OF 4

Other specifications as per Part No. 2054.





2307

DuraLED® Heavy Duty Side Marker Lamp with DT Connector – Red/Amber

Heavy duty red/amber LED side marker lamp with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

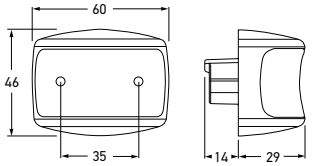




Rear view showing DT connector that allows application of self-adhesive heat shrink.



4960-P
Not included with lamp.



2073	2PS 980 990-001	
2073BULK	2PS 980 990-007	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	

DuraLED® Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamp (Cat. 5) with DT Connector

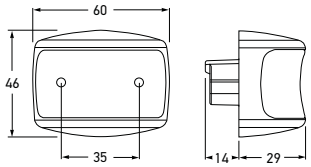
Heavy duty amber LED cab marker or supplementary side direction indicator lamp with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2076	2BP 980 990-101	
2076BULK	2BP 980 990-107	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	ADR 6/00: Cat 5

DuraLED® Heavy Duty Front Position /End Outline Lamp with DT Connector

Heavy duty white front position or end outline LED lamp (FEOL) with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





2074	2PF 980 990-201	
2074BULK	2PF 980 990-207	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

DuraLED® Heavy Duty Front End Outline Lamp with DT Connector

Heavy duty amber front end outline LED lamp (FEOL) for trailers with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2071	2PF 980 990-401	
2071BULK	2PF 980 990-407	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

DuraLED® Heavy Duty Rear Position /End Outline Lamp with DT Connector

Heavy duty red rear position or end outline LED lamp (REOL) with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2312	2XA 980 990-601	
2312BULK	2XA 980 990-607	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P	2 pole DT plug, wedge and 2 contacts.
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

DuraLED® Heavy Duty Side Marker Lamp – Red/Amber

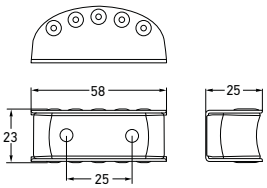
Heavy duty red/amber LED side marker lamp with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





2058 | 2058P





2058	2PS 980 660-001	MATT FINISH
2058BULK	2XS 980 660-018 – Pack of 4	
2058P	2PS 980 660-021	POLISHED FINISH
2058PBULK	2XS 980 660-038 – Pack of 4	
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	
The industrial polishing process utilised on the housings may not always be 100% blemish free.		

DuraLED® Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamps (Cat. 5)

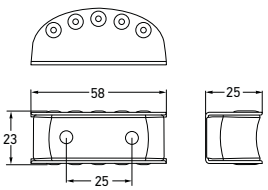
Heavy duty LED cab marker or supplementary side direction indicator lamp with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2027	2BP 980 660-101		MATT FINISH
2027BULK	2BP 980 660-118 – Pack of 4		
2027P	2BP 980 660-121		POLISHED FINISH
2027PBULK	2BP 980 660-138 – Pack of 4		
Mounting	Surface mount. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems		
Power Consumption	<1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 45/01	ADR 6/00: Cat 5	
The industrial polishing process utilised on the housings may not always be 100% blemish free.			

DuraLED® Heavy Duty Front Position/End Outline Lamps

Heavy duty white front position/end outline LED lamp (FEOL) with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.











2061P

2061	2PF 980 660-201	MATT FINISH
2061BULK	2PF 980 660-218 – Pack of 4	
2061P	2PF 980 660-221	POLISHED FINISH
2061PBULK	2PF 980 660-238 – Pack of 4	
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

The industrial polishing process utilised on the housings may not always be 100% blemish free.

DuraLED® Heavy Duty Front End Outline Lamps

Heavy duty amber front end outline LED lamp (FEOL) for trailers with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







2062	2PF 980 660-301	MATT FINISH
2062BULK	2PF 980 660-318 – Pack of 4	
2062P	2PF 980 660-321	POLISHED FINISH
2062PBULK	2PF 980 660-338 – Pack of 4	

Other specifications as per Part No. 2061.

DuraLED® Heavy Duty Rear Position/End Outline Lamps

Heavy duty red rear position/end outline LED lamp (REOL) with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







2311	2XS 980 660-401	MATT FINISH
2311P	2XS 980 660-421	POLISHED FINISH

Other specifications as per Part No. 2061.

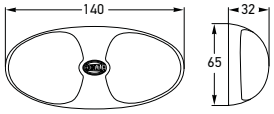
DuraLED® Supplementary Side Direction Indicator Lamp (Cat. 5)

LED supplementary side direction indicator featuring amber impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.





2031BL



2031	2BM 959 700-011	
2031BL	2BM 959 700-031	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Blister pack with 0.5m cable	
Projected Luminous Area	51cm²	
Lens Material	Polycarbonate	
Compliance	ADR 6/00: Cat 5	

DuraLED® Side Marker Lamp with Clear Lens

LED side marker featuring clear impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility. Optic appears clear until illuminated.





2033BL

2033	2PS 959 700-201	
2033BL	2PS 959 700-212	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Blister pack with 0.5m cable.	
Lens Material	Polycarbonate	
Compliance	ADR 45/01	

DuraLED® Rear Position /End Outline Lamp

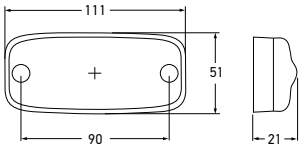
LED rear position/rear end outline lamp featuring red impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.



2309	2BA 959 700-301	
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Spare Part	9NH959028017	Screw boss kit
Lens Material	Polycarbonate	
Compliance	ADR 49/00	

LED Side Marker Lamps – Amber

LED side marker with inbuilt amber retro reflector. Bridge circuit for protection against polarity reversal.

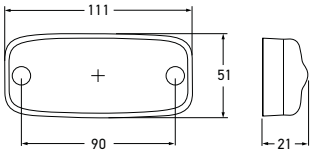




2047	2PS 963 639-002				**12 VOLT DC**
2048	2PS 963 639-012				**24 VOLT DC**
Power Consumption	12V DC 0.7W 24V DC 1.3W				
Protection	Fully sealed against dust, high-pressure washing/steam jet cleaning				
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable				
Compliance	ADR 74/00: Cat. SM1	ADR 47/00	E24 5881	ECE R3/02	ECE R7/02

LED Rear Position Lamps – Red

LED rear position lamp with inbuilt red retro reflector. Bridge circuit for protection against polarity reversal.





2305	2TM 963 639-301				**12 VOLT DC**
2306	2TM 963 639-311				**24 VOLT DC**
Power Consumption	12V DC 0.5W 24V DC 1W				
Protection	Fully sealed against dust, high-pressure washing/steam jet cleaning				
Cable Length	Pre-wired with 5m of sheathed multi-core cable				
Compliance	ADR 47/00	ADR 49/00	E24 5881	ECE R3/02	ECE R7/02

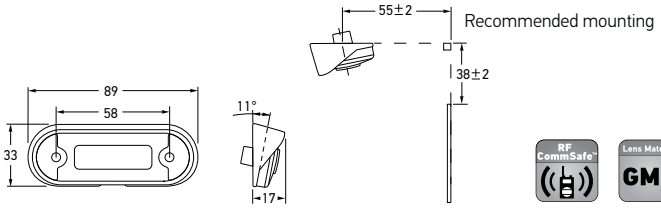
DuraLED® Flush Mount Licence Plate Insert

White DuraLED® licence plate insert featuring a low profile of only 17mm and an ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Two inserts per licence plate are required for ADR compliance. Can be mounted either above or beside the licence plate. Optic appears clear until illuminated.





8HG958029001



2560	2KA 980 869-001	
2560BULK	2KA 980 869-027	PACK OF 16
Mounting	Surface mount	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2310.09-BULK Black screw caps (Pack of 4) 8HG958029001 Angle mount bracket	
Lens Material	Nylon (PA12)	
Compliance	ADR 48/00	

LICENCE PLATE LAMP POSITIONING



LED Licence Plate Lamp

White LED licence plate lamp. Bulk version includes 20mm mounting spacer. Two lamps required for ADR compliance.

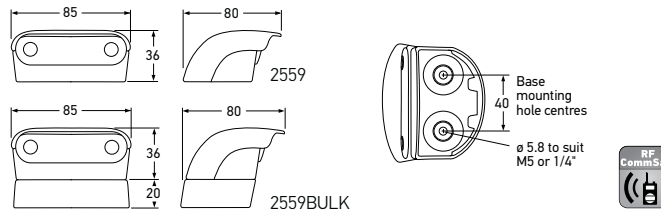




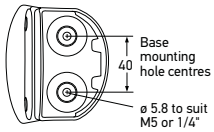
Mounting spacer
9.2559.08

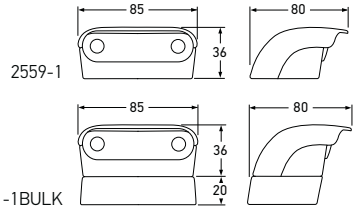


2559



2559	2KA 959 640-021	
2559BULK	2KA 959 640-057	PACK OF 8
2559OEBULK	2KA 959 640-067 – No Spacer	PACK OF 8
Mounting	Surface mount	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Part No. 2559BULK - Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2559.01 LED insert 9.2559.09 Mounting kit - black 9.2559.19 Mounting kit - white	
Compliance	ADR 48/00 ECE R4/00	
Note	Two lamps required for ADR compliance. One each side of licence plate or two above.	





LED Licence Plate Lamp

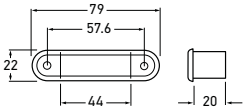
White LED licence plate lamp. Bulk version includes 20mm mounting spacer. One lamp required for ADR compliance.





Mounting spacer
9.2559.08

2559-1	**2KA 959 640-301**	
2559-1BULK	**2KA 959 640-327**	**PACK OF 8**
2KA 959 640-357	**No Spacer**	**PACK OF 12**
2559-1DT	**2KA 959 640-381**	**DT CONNECTOR**
Mounting	Surface mount	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2559.08 9.2559.02 9.2559.09 9.2559.19	Mounting spacer - black LED insert Mounting kit - black Mounting kit - white
Compliance	ADR 48/00	ECE R4/00
Note	One lamp to the side of the licence plate is required for ADR compliance.	

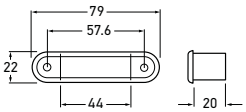


LED Licence Plate Lamp Insert

LED insert to suit LED licence plate Lamp, Part No. 2559.



9.2559.01	**2KA 959 640-121**
Mounting	Flush Mount (gasket and screw caps included)
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems
Power Consumption	0.5W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of cable.
Compliance	ADR 48/00



LED Licence Plate Lamp Insert

LED insert to suit LED licence plate Lamp, Part No. 2559-1.



9.2559.02	**2KA 959 640-131**
Mounting	Flush Mount (gasket and screw caps included)
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems
Power Consumption	0.5W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of cable
Compliance	ADR 48/00

RFCommSafe™

LED Lighting Products with Superior Electromagnetic Compatibility





LED Licence Plate Lamp



DuraLED® Side Marker Lamp



DuraLED® Heavy Duty Side Marker Lamp

DuraLED® Heavy Duty Side Marker Lamp

HELLA LED LAMPS – QUALITY WITH PERFORMANCE

Electromagnetic Compatibility (EMC) is an increasingly relevant safety concern for many emergency, mining and industrial applications. As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) from inferior lamps that can have adverse effects on radios and other communication equipment.

HELLA Lamps marketed as RFCommSafe™ are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10 Standards.



RFCommSafe™ products are specified by the New Zealand Fire Service

RF CommSafe™

FIT & FORGET BY DESIGN

HELLA Australia Pty Ltd
HELLA Customer Service:
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info.au@hella.com
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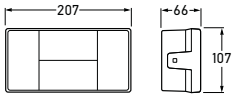
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Technology with Vision

HELLA

Ford Type Stop/Rear Position/ Rear Direction Indicator/Reversing Lamps

Suitable for insulated earth circuits.



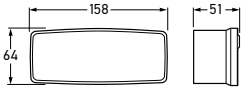


2414 - LEFT HAND SIDE

2414	2VP 006 040-112		**LEFT HAND SIDE**
2415	2SK 905 289-001		**RIGHT HAND SIDE**
Mounting	Surface mount. Suitable for horizontal mounting only.		
Voltage	Globes to be ordered separately		
Globes to Suit		12V	24V
	Stop:	R1221	R2421
	Rear position:	G1210	G2410
	Rear direction indicator:	R1221	R2421
	Reverse:	R1221	R2421
Spare Parts	9.2414.01	Lens to suit 2414	
	9.2415.01	Lens to suit 2415	
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 49/00

Stop/Rear Position/Rear Direction Indicator Lamps

Right-hand-side version includes licence plate lamp.





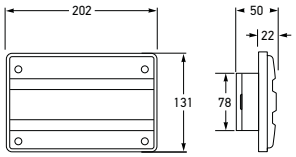
2419	2SD 003 184-032		**LEFT HAND SIDE**
2420	2SE 003 184-102 – With Licence Plate Lamp		**RIGHT HAND SIDE**
Mounting	Surface mount		
Voltage	Globes to be ordered separately		
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)
	Stop:	R1221	R2421
	Rear position/Licence plate:	G1210	G2410
	Rear direction indicator:	R1221	R2421
Spare Parts	9.2419.01	Lens to suit 2419	
	9.2420.01	Lens to suit 2420	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00

DESIGNLINE RECESS MOUNT

Designline Stop/Rear Position Lamps with Retro Reflector

Single globe holder. Suitable for insulated earth circuits. Reflector area 35cm².





2321	2TA 958 606-001		
2321PC	2TA 958 606-011		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately		
Globes to Suit	12V 24V	S1221/5V (Bayonet base) S2421/5V (Bayonet base)	
Compliance	ADR 47/00	ADR 49/00	

Designline Rear Direction Indicator Lamps

Single globe holder. Suitable for insulated earth circuits.



2145	2BA 958 607-001	
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Compliance	ADR 6/00: Cat 2a	

Designline Reversing Lamps

Single globe holder. Suitable for insulated earth circuits.



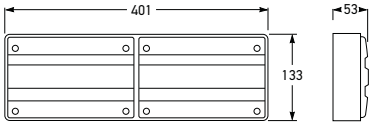
2046	2ZR 958 607-021		
2046PC	2ZR 958 607-031		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Front Position or Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes		
Compliance	ADR 1/00		

SPARE PARTS FOR DESIGNLINE RECESS MOUNT LAMPS

9.2320.01	Red lens	9.2043.05	Lens or base gasket
9.2321PC.01	Red Polycarbonate lens	9.2041.08	Single contact globe holder (Includes 12V Globe)
9.2144.01	Amber lens	9.2320.08	Double contact globe holder (Includes 12V Globe)
9.2145PC.01	Amber Polycarbonate lens		
9.2041.01	Clear lens		
9.2046PC.01	Clear Polycarbonate lens		

Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.

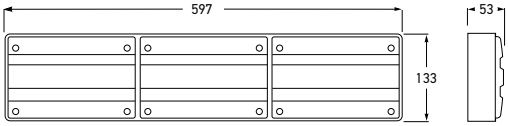




2422	2VA 958 562-001		12 VOLT
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)
	Stop/rear position:	S1221/5V	S2421/5V
	Rear direction indicator:	R1221	R2421
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00

Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.





2423	2VA 958 616-021		
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Voltage	Globes to be ordered separately		
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)
	Stop/rear position:	2 x S1221/5V	2 x S2421/5V
	Rear direction indicator:	R1221	R2421
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00

Designline Stop/Rear Position /Rear Direction Indicator/Reversing Lamp with Retro Reflector

Suitable for insulated earth circuits.



2424	2VA 958 616-031			
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Voltage	Globes to be ordered separately			
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)	
	Stop/rear position:	S1221/5V	S2421/5V	
	Rear direction indicator:	R1221	R2421	
	Reversing:	R1221	R2421	
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00

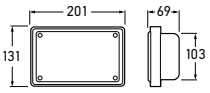
SPARE PARTS FOR DESIGNLINE SURFACE MOUNT LAMPS

9.2320.01	Red lens	9.2041.09	Single housing
9.2321PC.01	Red Polycarbonate lens	9.2041.09BULK	Single housing (pack of 10)
9.2144.01	Amber lens	9.2422.09	Double housing
9.2145PC.01	Amber Polycarbonate lens	9.2422.09BULK	Double housing (pack of 10)
9.2041.01	Clear lens	9.2423.09	Triple housing
9.2046PC.01	Clear Polycarbonate lens	9BG 958 338-001	Triple housing with cable grommet exit
9.2043.05	Lens or base gasket	9BG 958 338-011	Triple housing to suit M16 conduit gland
9.2041.08	Single contact globe holder (Includes 12V Globe)	9BG 958 338-021	Triple housing to suit flange mount DT connector
9.2320.08	Double contact globe holder (Includes 12V Globe)	9.2423.06	Installation pack

Jumbo Stop/Rear Position Lamp with Retro Reflector

Single globe holder. Suitable for insulated earth circuits.





2319	2TA 910 664-021		12 VOLT
Mounting	Recess mount with 103 x 171mm opening		
Globes to Suit	12V 24V	S1221/5V (Bayonet base) S2421/5V (Bayonet base)	
Spare Part	9.2319.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 47/00	ADR 49/00	

Jumbo Rear Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



2143	2BA 910 663-081		12 VOLT
Mounting	Recess mount with 103 x 171mm opening		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Spare Part	9.2143.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 6/00: Cat 2a		

Jumbo Reversing Lamp

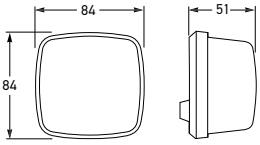
Single globe holder. Suitable for insulated earth circuits.



2043	2ZR 910 663-091		12 VOLT
Mounting	Recess mount with 103 x 171mm opening		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Spare Part	9.2043.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 1/00		

Reversing Lamp

Single globe holder.





1405	2ZR 003 014-091	
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Spare Part	9.1405.01	Clear lens
Compliance	ADR 1/00	

Front Position/End Outline Lamp

Single globe holder.



2064	2PF 003 014-071		
Mounting	Surface mount		
Voltage	Globe to be ordered separately		
Globes to Suit	6V L65	12V L125	24V L245
Compliance	ADR 49/00		

Rear Position/Outline Lamp

Single globe holder.



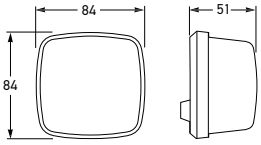
2325	2SA 003 014-051		
Mounting	Surface mount		
Voltage	Globe to be ordered separately		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	9.2325.01	Lens	
Compliance	ADR 49/00		

GLOBE 84 X 84MM SQUARE

Front Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.





2148	2BA 003 014-111	
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes	
Spare Part	9.2148.01	Amber lens
Compliance	ADR 6/00: Cat 1	

Stop/Rear Position/Licence Plate Lamp

Double globe holder.



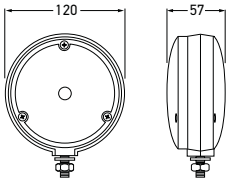
2384	2ST 003 014-143		
Mounting	Surface mount		
Voltage	Globes to be ordered separately		
Globes to Suit		12V	24V
	Stop:	R1221 (Bayonet base)	R2421 (Bayonet base)
	Rear position/Licence plate:	L125	L245
Spare Part	9.2384.01	Red lens	
Compliance	ADR 48/00	ADR 49/00	

Rear Direction Indicator Lamp

Single globe holder.



2147	2BA 003 014-011	
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes	
Spare Part	9.2147.01	Amber lens
Compliance	ADR 6/00: Cat 2a	

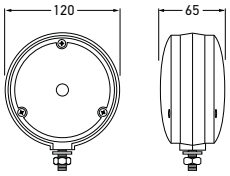


Front Direction Indicator Lamp (Cat. 1)

Single-sided front direction indicator. Black backing plate.



2128	2BA 900 763-301		12 VOLT
Mounting	Single bolt mount		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1		



Front Direction Indicator /Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided direction indicator lamp.



2127	2BA 900 763-291		12 VOLT
Mounting	Single bolt mount		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

Front Direction Indicator /Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided direction indicator lamp with double-contact globe holder. Suitable for insulated earth circuits.

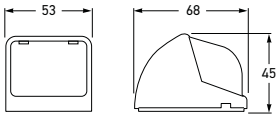


2129	2BA 900 763-311		12 VOLT
Mounting	Single bolt mount		
Globes to Suit	12V 24V	FD1221 (Bayonet base) FD2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

Front Position/Front End Outline Lamp – White

Fitted with polycarbonate lens and single globe holder.

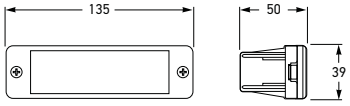




2066	2PF 006 679-001	
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	G1210 (Bayonet base) G2410 (Bayonet base)
Compliance	ADR 49/00	

Front Direction Indicator Lamp (Cat. 1)

Universal flush mount front direction indicator lamp ideal for coach or bull-bar applications.

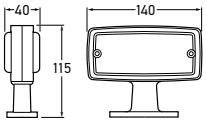




2101	2BA 002 939-171	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 R2421
Compliance	ADR 6/00: Cat 1	

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided front direction indicator lamp. Suitable for insulated earth circuits.

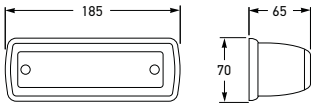




2126	2BA 905 115-001	
Mounting	Pedestal mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used	
Spare Part	9.2126.01	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 6)

Single globe holder.



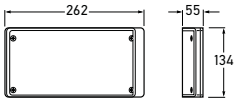


2142	2BA 905 273-001	
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 R2421
Additional Function	Supplementary side direction indicator lamp (Cat. 5) where 12V (G125) or 24V (G245) Globes are used	
Spare Part	9.2142.01	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 6

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Wrap-around front direction indicator lamp. Suitable for insulated earth circuits.



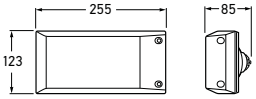


2150	2BA 005 603-001	
Mounting	Flush mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Curved front direction indicator with colourless front lens and internal amber filter producing the required amber light when activated. Includes separate front position lamp function. Supplied complete with protective rubber boot.



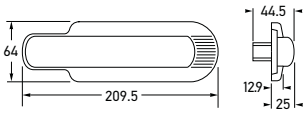


2158	2BE 004 119-021		
Mounting	Flush mount		
Voltage	Globes to be ordered separately		
Globes to Suit		12V	24V
	Front position:	W125	W245
	Direction indicator:	R1221	R2421
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	ADR 49/00

LED Auxiliary Side Indicator (Cat. 6)

LED side indicator lamp approved for heavy vehicles and buses/coaches, sealed against dust and water for many years of trouble-free usage. Optic appears clear until illuminated.

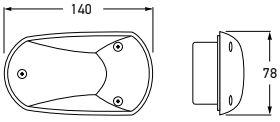




2BM 011 788-031				12 VOLT DC
2BM 011 788-021				24 VOLT DC
Mounting	Horizontal surface mount			
Power Consumption	12V DC 24V DC	4.8W 3.5W		
Protection	IP 6K9 Fully sealed against dust, high-pressure washing/steam jet cleaning			
Cable Length	Pre-wired with 5m of sheathed multi-core cable			
Compliance	E11 7506	ECE R6/01	ADR 6/00 Cat. 6	

Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting.





2155	2BM 008 355-002	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	RY1221 (Bayonet base) R2421 (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		



9.2155.05

Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting. Optic appears clear until illuminated.



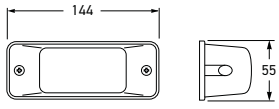
2155CLR	2BM 008 355-012	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	RY1221 (Bayonet base) RY2421LL (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		



9.2155.05

Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction indicator lamp with rubber base. Suitable for insulated earth circuits.





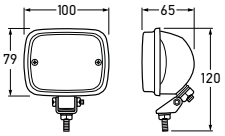
2153	2BM 006 692-012	LEFT HAND SIDE
2154	2BM 006 692-022	RIGHT HAND SIDE
Mounting	Surface mount	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Compliance	ADR 6/00: Cat 6	

Arrow on lens must face direction of travel.
Replacing ADR 6/00: Cat. 5 Supp. Side Direction Indicator Lamps with ADR 6/00: Cat. 6 Supp. Side Direction Indicator Lamps is permitted in all instances. Arrow on lens must face direction of travel.

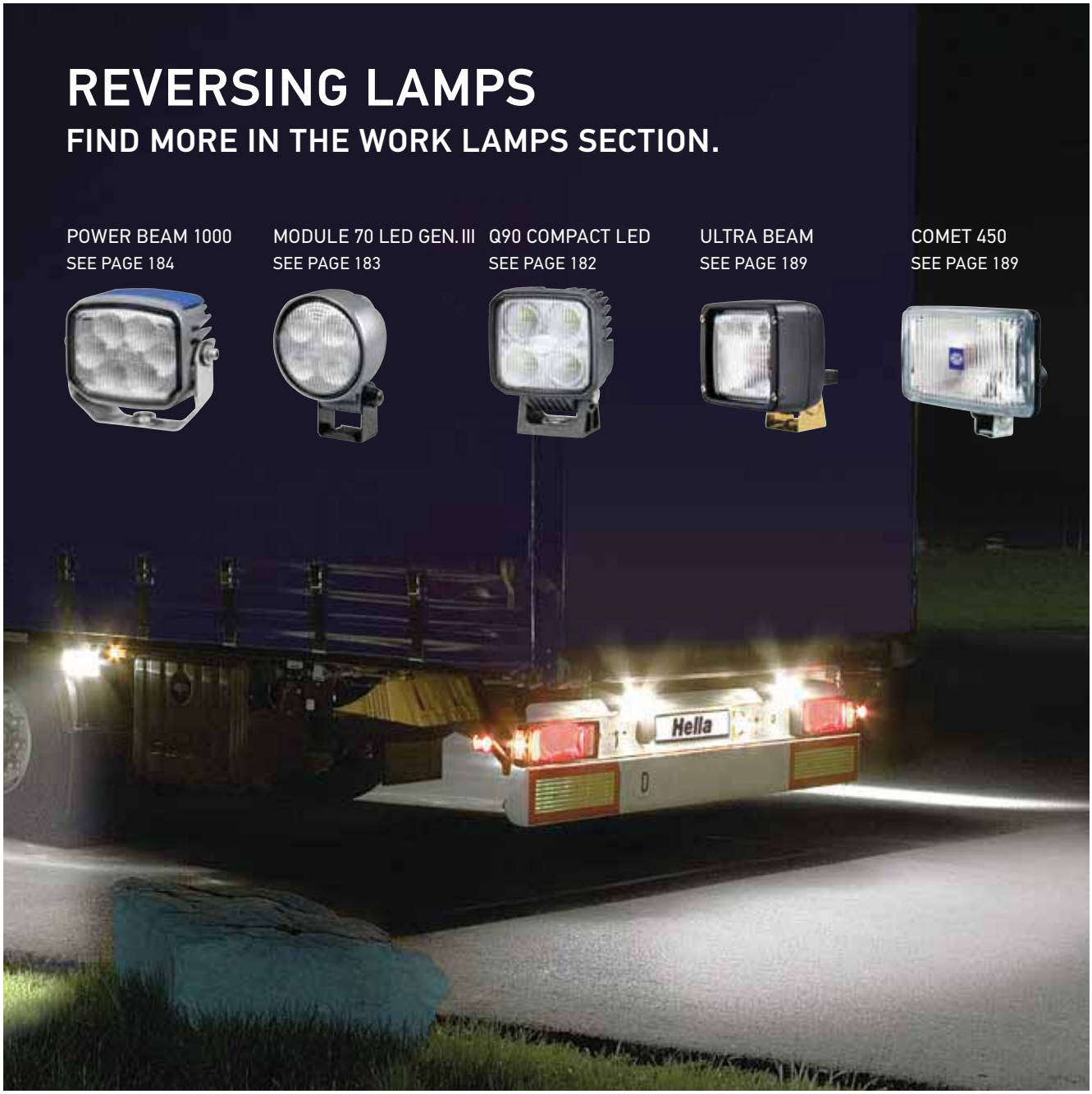
Reversing Lamp – Chrome

Robust chrome housing.

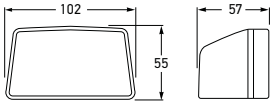




1403	2ZR 003 030-171	
Mounting	Bracket with fixing screw for mounting on vertical or horizontal surfaces	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Compliance	ADR 1/00	



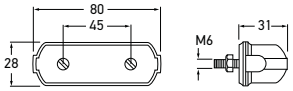
Licence Plate Lamp





2553	2KA 951 068-042		12 VOLT
Mounting	Surface mount		
Globes to Suit	6V G610	12V G1210 (Bayonet base)	24V G2410 (Bayonet base)
Compliance	ADR 48/00		

Licence Plate Lamp

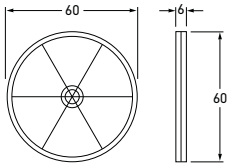




2555	2KA 001 389-101		
Mounting	Surface mount. Two bolt mount.		
Voltage	Globe to ordered separately		
Globes to Suit	6V L65	12V L125	24V L245
Compliance	ADR 48/00		
Two lamps required for ADR compliance			

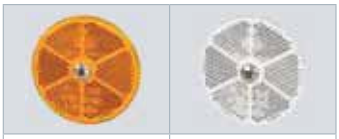
Retro Reflectors

60mm diameter complete with mounting screw, 22cm².





2915

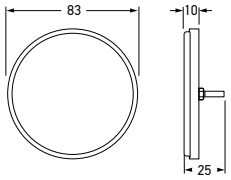


2916	2917

2915	8RA 002 014-033	■ RED
2915/1000	8RA 002 014-036	
2916	8RA 002 014-131	■ AMBER
2916/1000	8RA 002 014-054	
2917	8RA 002 014-861	■ WHITE
2917/1000	8RA 002 014-043	
Compliance	ADR 47/00	

Retro Reflector - Red

83mm diameter red acrylic retro reflector with black rim, 48cm².

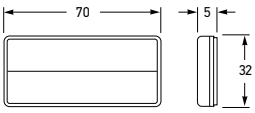




2902	8RA 002 016-113
Mounting	Surface mount (single bolt mount - 16mm)
Compliance	ADR 47/00

Retro Reflectors

70 x 31.5mm self adhesive, 18cm².



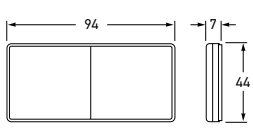
2919	8RA 004 412-002	■ AMBER
2919BULK	8RA 004 412-008 - Pack of 20	
2919/200	8RA 004 412-006 - Pack of 200	
2920	8RA 004 412-022	■ RED
2920/200	8RA 004 412-021 - Pack of 200	
2921	8RA 004 412-012	■ WHITE
2921/200	8RA 004 412-011 – Pack of 200	
Compliance	ADR 47/00	

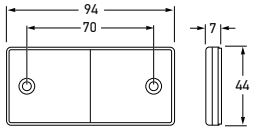

2919


2920 | 2921

Retro Reflectors

94 x 44mm self adhesive (except two bolt hole version), 33cm².





Part No. 2923-2 - Two bolt holes

2922	8RA 003 326-043	■ AMBER
2922BULK	8RA 003 326-044 - Pack of 20	
2922-2/200	8RA 003 326-017 - Two bolt holes - Pack of 200	
2923	8RA 003 326-033	■ RED
2923-2BULK	8RA 003 326-001 - Two bolt holes - Pack of 20	
2924	8RA 003 326-053	■ WHITE
2924-2BULK	8RA 003 326-021 - Two bolt holes - Pack of 20	
Compliance	ADR 47/00	

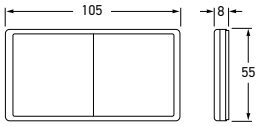

2922


2922-2/200


2922 | 2923 | 2924

Retro Reflectors

105 x 55mm self adhesive, 50cm².



2925	8RB 004 713-002	■ AMBER
2926	8RB 342 007-101	■ RED
2927	8RB 950 766-001	■ WHITE
Compliance	ADR 47/00	


2925


2926 | 2927

DuraLED® Accessories

Spare screw caps or screw bosses for the DuraLED® lamp range. Two screw caps and two screw bosses are required per lamp.



9.2330.15

SCREW CAPS - DURALED®		
9.2330.10	9HD 959 065-038 - Pack of 4	RED
9.2330.11	9HD 959 065-018 - Pack of 4	WHITE
9.2330.13	9HD 959 065-058 - Pack of 4	GREEN
9.2330.14	9HD 959 065-048 - Pack of 4	YELLOW
9.2330.15	9HD 959 065-008 - Pack of 4	BLACK
9.2330.16	9HD 959 065-078 - Pack of 4	AMBER



9.2330.10	9.2330.11	9.2330.13	9.2330.14	9.2330.16



9.2378.10BULK

SCREW CAPS - DURALED® COMBI-S/COMBI-R		
9.2378.10BULK	9HD 980 712-037 - Pack of 4	RED
9.2378.11BULK	9HD 980 712-017 - Pack of 4	WHITE
9.2378.14BULK	9HD 980 712-047 - Pack of 4	YELLOW
9.2378.15BULK	9HD 980 712-007 - Pack of 4	BLACK



9.2378.11-BULK	9.2378.14-BULK	9.2378.15-BULK



9.2330.08

SCREW CAP AND BOSS SET (2 OF EACH KIND)	
9.2330.08	9HD 958 421-141 - Black DuraLED® Cap and Boss - Pack of 2
9.2378.09	9HD 980 712-801 - Black DuraLED® Combi-S Cap and Boss - Pack of 2



9.2330.17

SCREW BOSS	
9.2330.17	9NH 959 059-008 - Pack of 4

98071900



98071901

MOUNTING SPACERS – DURALED® COMBI		
98071900	8HG 980 719-001	BLACK
98071901	8HG 980 719-011	WHITE

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer, or through the centre.

DuraLED® Marker Lamp Accessories

Spare mounting shrouds for the surface mount marker and surface mount courtesy lamp range. One mounting shroud is required per lamp.

SHROUDS - DURALED® SURFACE MOUNT		
9.2053.08	9BG 910 274-001 - Nylon Retrofit Style	■ BLACK
9.2053.08BULK	9BG 959 565-308 - Nylon Retrofit Style - Pack of 4	■ BLACK
9.2053.10BULK	8HG 959 565-038 - Retrofit Style - Pack of 4	■ RED
9.2053.11BULK	8HG 959 565-018 - Retrofit Style - Pack of 4	■ WHITE
9.2053.12BULK	8HG 959 565-068 - Retrofit Style - Pack of 4	■ BLUE
9.2053.13BULK	8HG 959 565-058 - Retrofit Style - Pack of 4	■ GREEN
9.2053.14BULK	9BG 959 565-048 - Retrofit Style - Pack of 4	■ YELLOW
9.2053.15BULK	9BG 959 565-078 - Retrofit Style - Pack of 4	■ AMBER
9.2053.20BULK	9BG 959 565-408 - Retrofit Style - Pack of 4	■ CHROME PLATED

Retrofit style allows replacement of shroud without cutting cable of lamp.



9.2053.08



9.2053.11BULK



9.2053.20BULK



9.2053.10BULK



9.2053.12BULK



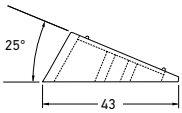
9.2053.13BULK



9.2053.14BULK



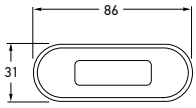
9.2053.15BULK



ANGLE MOUNT - DURALED® SURFACE MOUNT		
9.2053.07	8HG 910 273-001	■ BLACK



9.2053.07



RIMS - DURALED® FLUSH MOUNT		
95968500	9AB 959 685-002 - 316 Stainless Steel	■ POLISHED
95968506	9AB 959 685-062 - 316 Stainless Steel	■ SATIN CHROME PLATED
95968600	9AB 959 686-001	■ BLACK
95968601	9AB 959 686-011	■ WHITE

To suit wide marker and signal lamps with 29mm wide rim. Does not fit narrow rim lamps.



95968600



95968500



95968506



95968601

DuraLED® Marker Lamp Accessories



9.2310.09-BULK



9.2310.11-BULK

SCREW CAPS - DURALED® FLUSH MOUNT		
9.2310.09BULK	9HD 980 858-007 - Pack of 4	■ BLACK
9.2310.10BULK	9HD 980 858-037 - Pack of 4	■ RED
9.2310.11BULK	9HD 980 858-017 - Pack of 4	■ WHITE
9.2310.12BULK	9HD 980 858-067 - Pack of 4	■ BLUE
9.2310.13BULK	9HD 980 858-057 - Pack of 4	■ GREEN
9.2310.16BULK	9HD 980 858-027 - Pack of 4	■ GREY

Pack sizes of 50 available upon request.



9.2310.10-BULK | 9.2310.12-BULK | 9.2310.13-BULK | 9.2310.16-BULK

DuraLED® DT Marker and Signal Lamp Accessories



4963-P

DT PLUG, WEDGE AND CONTACTS		
4960-P	8JA 959 736-811	2 POLE
4963-P	8JA 959 736-801	6 POLE



4960-P

EuroLED® Accessories

Spare covers or screw bosses for the EuroLED® range of lamps. One cover and two screw bosses are required per lamp.



9HD959027007



8HG959952012



9NH959028017



9HD959027017 | 8HG959952002

COVERS		
9HD 959 027-007	Single	■ BLACK
9HD 959 027-017	Single	■ OFF WHITE

SCREW BOSS		
9NH 959 028-017	Pack of 2	■ OFF WHITE

MOUNTING SPACER		
8HG 959 952-002	Single	■ BLACK
8HG 959 952-012	Single	■ WHITE

LED Combination Trailer Lamp Accessories

To suit LED combination lamp Part No. 2394 and 2395.



9.2394.09



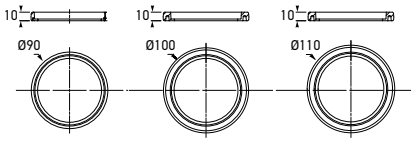
9.2394.08

9.2394.08	8HG 980 726-001	**FRAME**
9.2394.09	8HG 980 727-002	**15MM SPACER**

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer or through the centre.

83mm Round Lamps - Mounting Rings

Mounting rings to suit 83mm round lamp range. Allows retro-fitting of lamp into existing applications with mounting holes larger than a diameter of 83mm.





98069600	9GD 980 696-002	**90MM O.D**
98069640	9GD 980 696-402	**100MM O.D**
98069660	9GD 980 696-601	**110MM O.D**

Jumbo-S Accessories

Accessories for the Jumbo-S LED lamp range.



MOUNTING GASKET BASE, SPACERS AND 1¼" SCREWS	
9.2361.08	9HD 980 768-801

Allows Jumbo-S lamps to be surface mounted.

SCREW CAPS AND 1" SCREWS	
9.2361.09	9HD 980 767-801 - **Set of 4**

Designline/Jumbo-S/Jumbo Accessories

Housings for the Designline/Jumbo-S/ Jumbo lamp range.

HOUSING - SINGLE, DOUBLE, TRIPLE MODULE & BULK PACKS	
9.2041.09	9BG 958 568-021 - **Single**
9.2041.09BULK	9BG 958 568-027 - **Pack of 10**
9.2422.09	9BG 958 559-011 - **Double**
9.2422.09BULK	9BG 958 559-017 - **Pack of 10**
9.2423.09	9BG 958 615-011 - **Triple**
9BG 958 338-001	**Triple with Cable Grommet Exit**
9BG 958 338-011	**Triple to Suit M16 Conduit Gland**
9BG 958 338-021	**Triple to Suit Flange Mount DT Connector**
9.2391.08	8HG 958 421-381 - **Mounting clip and bolt set suits Jumbo-S triple (2430, 2431), 2391, 2392, triple housings 9BG 958 338-001/-011/-021**



8HG 958 421-381



9.2423.09



9BG 958 338-001



9BG 958 338-011



9BG 958 338-021

Licence Plate Lamp Accessories

Mounting kit for licence plate lamp Part No. 2559. Includes a housing, cover, screw bosses, screws and screw caps. One mounting kit is required per lamp.



9.2559.09

9.2559.19

MOUNTING KIT		
9.2559.09	8HG 959 647-031 - Single	■ BLACK
9.2559.19	8HG 959 647-041 - Single	□ WHITE

Suits Part No. 2559, 2308, 2055 and all narrow rim LED courtesy lamps.
Part No. 9.2559.09 is included with every LED Licence Plate pack (display and bulk packs).



MOUNTING SPACER AND EXTENDED SCREW BOSSES		
9.2559.08	8HG 959 647-021	■ BLACK

Suits LED Licence Plate Lamp, Part No. 2559.
Included in every LED Licence Plate Bulk Pack, Part No. 2559BULK.



8HG 959 647-001

LED LICENCE PLATE LAMP MOUNTING KIT	
8HG 959 647-001	■ BLACK

Mounting Kit including housing, cover, spacer and extended screw bosses for installation of LED licence plate lamps according to ADR requirements. One kit required per lamp.

Surface Mount Strip Lamp - Screw Caps



9.1009.09



9.2652.09



9.1009.10

SURFACE MOUNT STRIP LAMP SCREW CAPS		
9.1009.09	9HD 980 885-017 - Pack of 4	■ CHARCOAL
9.2652.09	9HD 980 885-007 - Pack of 4	□ WHITE
9.1009.10	9HD 980 885-107 - Pack of 4	■ CHROME PLATED

Marker and Courtesy Lamp Gaskets

Gaskets for narrow rim LED courtesy lamps. Curved mount gasket (Part No. 9GD 959 515-207) is designed to suit 64mm (2.5") pipes. Flexibility allows this particular gasket to suit a variety of curve radii.



9GD 959 515-127

NARROW RIM (LAMP WIDTH 22MM)	
9GD 959 515-127 - Pack of 4	RUBBER
9GD 959 515-207 - Curved mount - Pack of 4	RUBBER



9GD 959 515-207



9GD 959 517-007

WIDE RIM (LAMP WIDTH 29MM)	
9GD 959 517-007 - Pack of 4	CLOSE CELL FOAM

Strip Lamp Gaskets

Gaskets for narrow and wide rim strip lamps.

NARROW RIM (LAMP WIDTH 26MM)	
9GD 959 155-107 - Single	RUBBER



9GD 959 155-107

WIDE RIM (LAMP WIDTH 33MM)	
9GD 959 155-507 - Pack of 10	CLOSE CELL FOAM



9GD 959 155-507

Plastic Screw Caps

Two screw caps required per lamp.

SPARE PLASTIC CAPS	
9HD 959 182-027 - Pack of 20	RED
9HD 959 182-017 - Pack of 20	AMBER
9HD 959 182-037 - Pack of 20	BLACK

To suit narrow and wide rim LED courtesy, marker and strip lamps.



9HD 959 182-037

110mm Round - Lens Gasket

110MM ROUND - LENS GASKET	
9.2397.40	9GD 905 850-001



9.2397.40

LED Safety DayLights™

Safety DayLights™ are designed to be illuminated during the day, making your vehicle more visible on the open road. Be seen and be safe.





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HELLA

HELLA LED SAFETY DAYLIGHTS™
BE SAFE BE SEEN

Failure to see another road user in time (or at all) is a contributing factor in over 50% of all daytime accidents. For daytime intersection accidents this increases to as much as 80%.

Source: The Safety Effects of Daytime Running Lights, SWOV, 1997

Why Install HELLA Safety DayLights™?
You might ask yourself "can't I just switch on my headlamps?", since the use of dipped beam headlamps during daylight hours has long been promoted as a Road Safety Initiative around the country.

Dipped beam headlamps are designed to effectively light up the road in front of the vehicle during darkness, whilst causing as little glare as possible to oncoming traffic.



Hence during daytime, dipped beam headlamps 'waste' most of their light directed to the road in front of the vehicle but provide very little as a signal to other road users in bright daylight. Using your Dipped Beam Headlamps during daylight hours has only a marginal added safety effect.

Safety DayLights™ on the other hand are designed to significantly enhance the conspicuity of your vehicle during daylight hours because precision optics direct all the light towards the other road users.

HELLA LED Safety DayLights™
Safety DayLights™ are forward facing signal lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.

As road users we have all experienced the 'fright second' of a near miss by being overlooked by another car, van or truck.

Equally frightening is almost not noticing another vehicle approaching due to an inconspicuous vehicle colour, the low sun casting harsh shadows or sun strike.

Any single one of these 'fright seconds' has the potential to end in a tragic outcome and become a number in the road toll statistics.

Safety DayLights™ are a "never forget" safety enhancement. They automatically switch ON when the ignition is switched ON and automatically switch OFF when the headlamps are turned ON in order not to dazzle other road users at night.

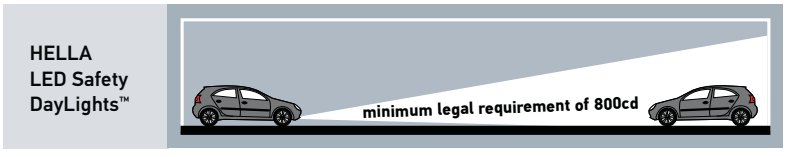

Headlamps Off


Low Beam Headlamps


HELLA LED Safety DayLights™



Designed to light the road at night without causing glare to other road users.



Designed to increase the visibility (conspicuity) of your vehicle during daylight hours.

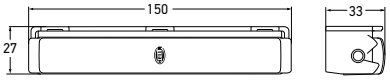
LED Safety DayLights™ Kit - Easy-Fit

Forward Facing Signal Lamps, designed to be mounted on vehicles with flat fronts, or on motorbikes. The lamps are an Easy-Fit installation, usually requiring no extra parts. Once the wiring is complete and the bracket is fitted, the LED lamp easily clips into place and installation is complete.





5636BL
Includes Smart Relay





5636	2PT 980 970-801	12 VOLT
5636BL	2PT 980 970-802 – (Blister Pack)	
5636-24V	2PT 980 970-851	24 VOLT
Mounting	Suitable for horizontal mounting	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Spare Parts	1013 Single lamp 12V 1013-24V Single lamp 24V	
Lens Material	High impact acrylic.	
Compliance	ADR 76/00 E24 5875 ECE R87/00	
Kit Contents	**5636/...-24V** 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	**5636-BL** 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

See page 92 for front position relay option.

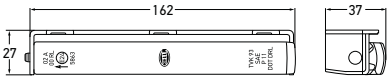
LED Safety DayLights™ Kit - 15°

A lens angle of 15 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.





5630BL
Includes Smart Relay





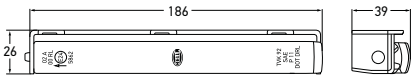
5630	2PT 980 860-841	12 VOLT
5630BL	2PT 980 860-842 – (Blister Pack)	
5630-24V	2PT 980 860-871	24 VOLT
5630-24VBL	2PT 980 860-872 – (Blister Pack)	
Mounting	Suitable for horizontal mounting	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	High impact acrylic	
Compliance	ADR 76/00 E24 5863 ECE R87/00	
Kit Contents	**5630/...-24V** 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	**5630-BL/...-24VBL** 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

See page 92 for front position relay option.

LED Safety DayLights™ Kit - 30°

A lens angle of 30 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.





5631	2PT 980 850-841	**12 VOLT**
5631BL	2PT 980 850-842 – **(Blister Pack)**	
5631-24V	2PT 980 850-871	**24 VOLT**
Mounting	Suitable for horizontal mounting	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	High impact acrylic	
Compliance	ADR 76/00 E24 5862 ECE R87/00	
Kit Contents	**5631/...-24V** 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	**5631-BL** 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

See page 92 for front position relay option.





5631BL
Includes Smart Relay

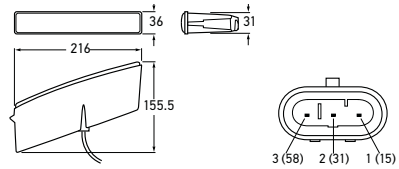
LEDayLine Safety DayLights™

Universal LED Safety DayLight equipped with five high-performance LEDs and individual computer-calculated, faceted reflectors and clear, pattern-free acrylic lens.

Features distinct rod-shaped matrix design for innovative front-end styling and provides optimum light distribution for maximum visibility in road traffic during the day.

Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off. Also functions as a position light with dimmed light power (automatic switch over).





5610	2PT 010 043-802	**12 VOLT**
5610LH-24V	2PT 010 043-032 – **(Left Hand Side)**	**24 VOLT**
5610RH-24V	2PT 010 043-042 – **(Right Hand Side)**	
Mounting	Flush or Screw Mount (side retaining springs and screws included)	
Power Consumption	7W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection	
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable	
Spare Parts	5610LH LEDayLine Safety DayLight – LH (Left hand side) 12V DC 5610RH LEDayLine Safety DayLight – RH (Right hand side) 12V DC	
Lens Material	Acrylic lens	
Compliance	E1 2578 ECE R87/00 ADR 76/00	
Kit Contents	2 x LEDayLine Safety DayLights™ 1 x Pre-assembled professional wiring harness 1 x Relay 1 x Waterproof AMP super seal plug All parts required for installation	

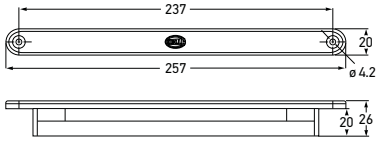


5610

LED Safety DayLights™ Kit - Recessed Mount

Recess Mount Strip Lamp, flush mounted for a professional finish. Features low power consumption, reverse polarity protection, and a durable Grilamid® lens to protect against impact damage.







5618	**2PT 980 680-811**	**12 VOLT**
5618-24V	**2PT 980 680-852**	**24 VOLT**
Mounting	Two hole recess mount. Suitable for horizontal mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of multi-core cable	
Spare Parts	1005 Single lamp 12V 1005-24V Single lamp 24V	
Lens Material	Nylon (PA12)	
Compliance	ADR 76/00 E24 0001 ECE R87/00	
Kit Contents	2 x LED Safety DayLights™ 4 x Screw caps and mounting screws 1 x Changeover relay 1 x Instruction sheet	

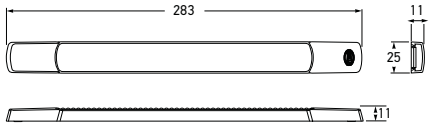
LED Safety DayLights™ Kit - Surface Mount

Surface Mount LED Safety DayLights™ designed to fit flat-fronted vehicles. Comes either as a single lamp, or as a kit. The lamp is ADR compliant and features a Grilamid® lens to protect against impact damage.





Ultra slim height of only 11mm. Lamp shown active.

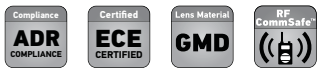


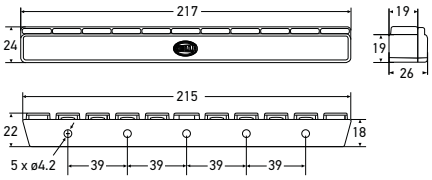


5619	**2PT 980 880-801 – (Horizontal mount)**	**12 VOLT**
5619-24V	**2PT 980 880-851 – (Horizontal mount)**	**24 VOLT**
5619V	**2PT 980 880-901 – (Vertical mount)**	**12 VOLT**
5619V-24V	**2PT 980 880-951 – (Vertical mount)**	**24 VOLT**
Power Consumption	3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Spare Parts	1009 Single lamp 12V (Horizontal mount) 1009BL Single lamp 12V (Horizontal mount) Blister pack 1009-24V Single lamp 24V (Horizontal mount) 1009-24VBL Single lamp 24V (Horizontal mount) Blister pack 1009V Single lamp 12V (Vertical mount) 1009V-24V Single lamp 24V (Vertical mount) 9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome plated screw caps (Pack of 4)	
Lens Material	Nylon (PA12)	
Compliance	ADR 76/00 E24 5869 ECE R87/00	
Kit Contents	2 x LED Safety DayLights™ 4 x Mounting screws 4 x Screw caps	1 x Changeover relay 1 x Instruction sheet

See page 92 for front position relay option.







1008	**2PT 980 680-111**	**12 VOLT**
1008-24V	**2PT 980 680-611**	**24 VOLT**
Mounting	Suitable for horizontal mounting	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	ADR 76/00	E24 0001 ECE R87/00

LED Safety DayLights™ - Compact Mount

Strip Lamp which clips into a separate mounting bracket for ease of installation. This lamp is ECE certified and is supplied with a mounting bracket and screws. The lens is made of durable Grilamid® to protect against impact damage and the lamps feature reverse polarity protection.



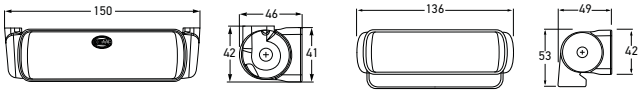




Mounting bracket







5617 / 5617 OE 5617OESS

5617	**2PT 980 670-831**		
5617OE	**2PT 980 670-812**		
5617OESS	**2PT 980 670-872**		
Mounting	5617 / 5617OE 5617OESS	Suitable for horizontal mounting Upright or pendant. Stainless steel mounting brackets included	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts		
Power Consumption	<2W each		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Spare Part	1004	Single lamp (with 0.5m of multi-core cable)	
Cable Length	5617 5617-OE/OESS	Pre-wired with 0.5m of multi-core cable. Pre-wired with 2.5m of multi-core cable.	
Lens Material	Nylon (PA12)		
Compliance	ADR 76/00	E24 0002	ECE R87/00
Kit Contents	**Part No. 5617 kit contains:** 2 x LED Safety DayLights™ 1 x Professional wiring harness and super seal connectors 4 x Mounting brackets and fasteners	**Part No. 5617OE /OESS kit contains:** 2 x LED Safety DayLights™ with 2.5m sheathed multi-core cable. 4 x Mounting brackets and fasteners (5617OE) 2 x Universal Stainless Steel Brackets (5617OESS)	

LED Safety DayLights™ Kit - Rectangular and Stainless Steel Bracket

Rectangular Shaped Ultra Light Lamps offering maximum visibility in road traffic during the day. Features lightweight housing, universal mounting bracket and ultra-durable Grilamid® nylon lens for extreme impact, UV and chemical resistance. Easy wiring requiring only 3 connections, earth (-), ignition (+) and position lamps (+).



5617 / 5617 OE





5617OESS

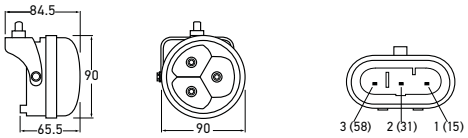


5617
Wiring harness and super seal connectors.

LED Safety DayLights™ Kit - Round

Universal Round Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metalled free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



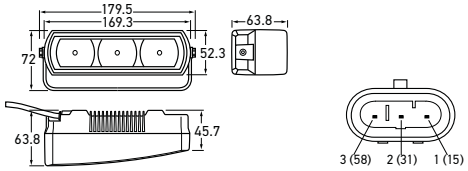


5607	2PT 009 599-802
Mounting	Upright or Pendant. Universal mounting bracket included
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	12V <5W (single lamp) 24V <11W (single lamp)
Protection	Reverse polarity and transient spike circuit protection
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable
Spare Parts	5607LH Round LED Safety DayLight LH (Left hand side) 5607RH Round LED Safety DayLight RH (Right hand side)
Lens Material	Polycarbonate
Compliance	E1 2372 ECE R87/00 ADR 76/00
Kit Contents	2 x LED Safety DayLights™ 1 x Pre-assembled professional harness 1 x Waterproof AMP plug

LED Safety DayLights™ Kit - Rectangular

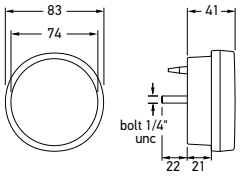
Universal Rectangular Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metallised free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.





5608	2PT 009 496-802
Mounting	Upright or Pendant. Universal mounting bracket included.
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	12V <5W (single lamp) 24V <11W (single lamp)
Protection	Reverse polarity and transient spike circuit protection
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable
Spare Part	5608LRH Rectangular LED Safety DayLight
Lens Material	Polycarbonate
Compliance	E1 2344 ECE R87/00 ADR 76/00
Kit Contents	2 x LED Safety DayLights™ 1 x Pre-assembled professional harness 1 x Waterproof AMP plug





LED Safety DayLights™ - 83mm Round

This LED lamp features an integrated Safety DayLight and front position function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight.



1006	2PT 980 687-501	**12 VOLT**
1007-24V	2PT 980 686-401 – **(Includes Front Position Lamp)**	**24 VOLT**
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Power Consumption	Safety DayLights™: 4W Front position: 1W (Part No. 1007-24V only)	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00 (1007-24V) ADR 76/00 E24 5854 ECE R87/00 ECE R7/02 (1007-24V)	

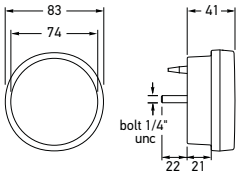
See page 79 for mounting accessories.

83MM LAMP FUNCTIONS



LED Safety DayLights™	Front position (Part no. 1007-24V only)





LED Safety DayLights™ - 83mm Round with Front Position / Front Direction Indicator Lamp

This LED Combination Lamp features an integrated Safety DayLight, front position and front direction indicator function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight. This lamp eliminates the need for installation of multiple lamps.



2108-GMD	2BE 980 687-111			**12 VOLT**
2108-GMD24V	2BE 980 686-011			**24 VOLT**
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.			
Power Consumption		Part No. 2108-GMD	Part No. 2108-GMD24V	
	Safety DayLights™:	3W	4W	
	Front position:	1W	1W	
	Front indicator:	4W	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable			
Lens Material	Nylon (PA12)			
Compliance	ADR 6/00: Cat 1	ADR 49/00	ADR 76/00	E24 5854
	ECE R6/01	ECE R7/02	ECE R87/00	

See page 79 for mounting accessories.

83MM LAMP FUNCTIONS



LED Safety DayLights™	Front position	Front direction indicator

Safety DayLights™ Smart Controller

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

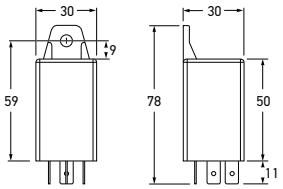
The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

*Advanced version with voltage variation monitor for installation in vehicles with fuel saving alternators.





3091 (Standard)





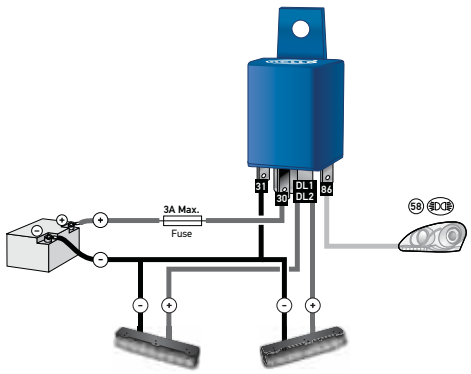
Power Supply MULTI VOLT

3090	5DF 980 818-011 – (Advanced*)	
3090BULK	5DF 980 818-017 – (Advanced*)	Pack of 20
3091	5DF 980 818-001 – (Standard)	
3091BULK	5DF 980 818-007 – (Standard)	Pack of 20
Voltage	Multivolt™ suitable for 12 and 24 volt systems	
Maximum Continuous Load	20W	
To Suit	HELLA LED Safety DayLights™ range	
Features a Safety DayLights™ OFF delay of approximately 10 seconds.		

WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Battery (+)
31	Earth return (-)
86	Front position or headlamps (+)
DL1 & DL2	Safety DayLights™ (+)

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING



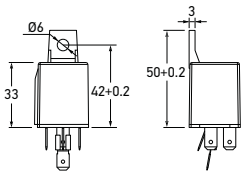
Dual Function Safety DayLights™ Controller

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

The dual function controller reduces the current to the Safety DayLights™ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.





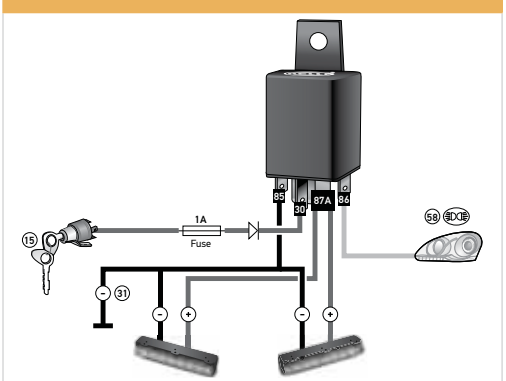


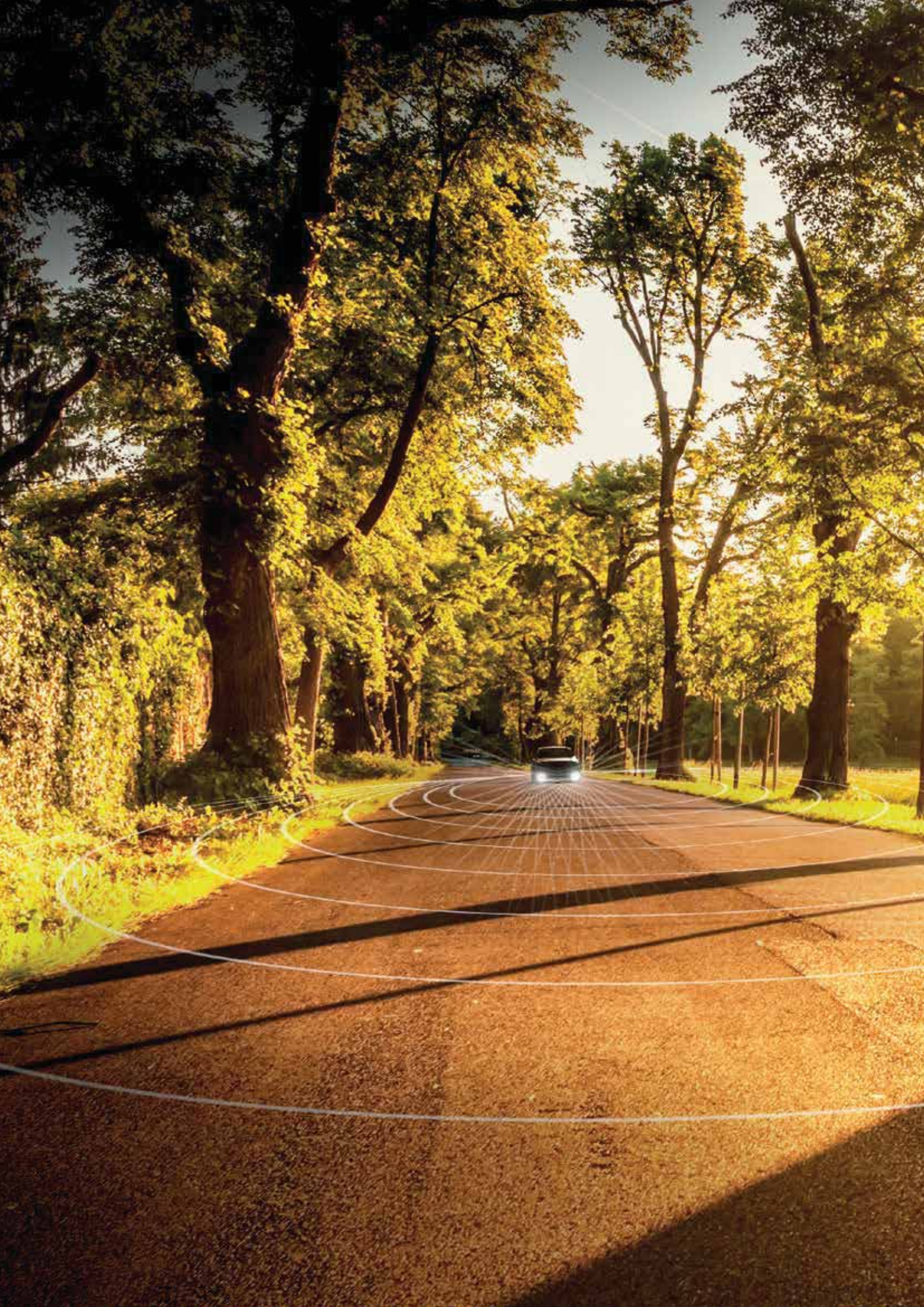
9.5630.03	2DF 980 816-041		12 VOLT
9.5636.03	2DF 980 816-061		
9.5630.04	2DF 980 816-541		24 VOLT
9.5636.04	2DF 980 816-561		
To suit Part No.	9.5630.03	1009, 5619, 5630, 5631	
	9.5636.03	5636	
	9.5630.04	1009-24V, 5619-24V, 5630-24V, 5631-24V	
	9.5636.04	5636-24V	

WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	Safety DayLights™ (+)

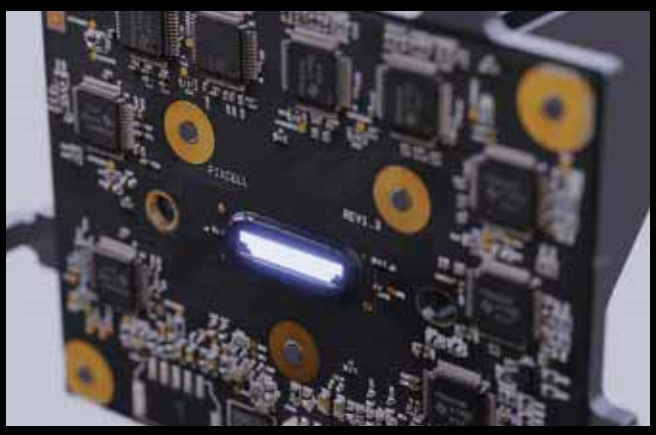
RECOMMENDED INSTALLATION DIAGRAM FOR WIRING





Headlamps and Inserts

HELLA has manufactured headlamp systems for more than 100 years. The durability and reliability of HELLA products has made HELLA a world leader in headlamp technology.





Contents

Headlamps and Inserts

60mm Modules Halogen 110-111

90mm Modules 96-99

LED Headlamps 7" Round 100-101

Semi Sealed Headlamps
5 ¾" Round 104-105

Semi Sealed Headlamps
and Housings 7" Round 102-103

Semi Sealed Headlamps
and Housings Rectangular 106-108

Universal Headlamps 109-111

90mm Performance Sealed LED Headlamp Modules - L4060 Series

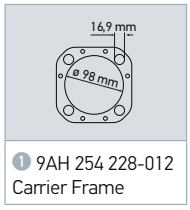
The L4060 low beam headlamp module provides the best of HELLA OE headlamp technology in a retrofit solution that can be fitted to a wide variety of vehicles. High quality optics utilise a 55x70 square aperture lens, providing uniform illumination, sharp cut off patterns and high illumination efficiency.



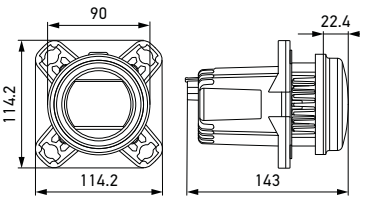
1ML 012 488-111



1ML 012 488-131



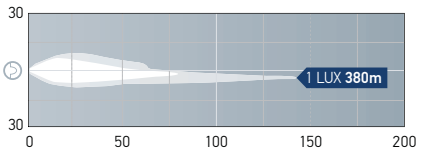
1 9AH 254 228-012 Carrier Frame

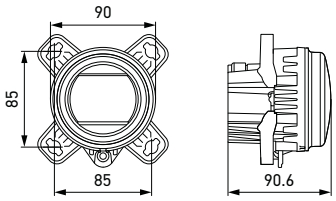


1ML 012 488-111	**LOW BEAM**
1ML 012 488-131	**LOW BEAM + DRL + PO**

Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Includes both mounting kit options as standard
Voltage	9-32V
Power Consumption	Low Beam: 20W DRL: 16W PO: 2W
Light Source	LED
Weight	764 g (Low Beam), 781 g (Low Beam + DRL + PO)
Connection	Integrated DT Type Socket, 4-pin
Colour Temperature	5500 K
Lens Material	Coated Polycarbonate
Compliance	ECE R112/01 ECE R10 E1 4090
Accessory	9AH 254 228-012 Carrier Frame 1

LED Performance L 4060 Low Beam



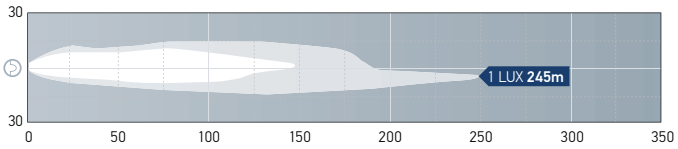


90mm Performance Sealed LED Headlamp Modules - L4060 Series

The L4060 high beam modules may be used with the low beam module in an ensemble or as a stand-alone high beam or auxiliary lamp solution. The modules can also provide an integrated Daytime Running light/Position Outline function or direction indicator function with HELLA CELIS ring technology.

1F0 011 988-121	**HIGH BEAM**
1F0 011 988-131	**HIGH BEAM + DRL + PO**
1F0 011 988-171	**HIGH BEAM + DIRECTION INDICATOR**
Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Includes both mounting kit options as standard.
Voltage	9-32V
Power Consumption	High Beam: 20W DRL: 16W PO: 2W
Light Source	LED
Weight	552 g
Connection	Integrated DT Type Socket, 4-pin
Colour Temperature	5500 K
Lens Material	Coated Polycarbonate
Compliance	ECE R112/01 ECE R10 E1 3831
Accessory	9AH 254 228-012 Carrier Frame (1)

LED Performance L 4060 High Beam





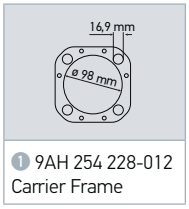
1F0 011 988-121



1F0 011 988-131



1F0 011 988-171



(1) 9AH 254 228-012
Carrier Frame

90mm Essential Sealed LED Headlamp Modules - R 80 Series

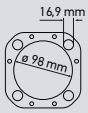
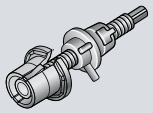
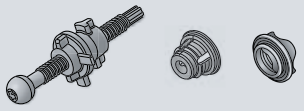
The Essential Series R 80 headlamp modules provide quality HELLA OE LED lighting technology in a cost effective, robust product. Using an innovative reflector based optical design, the R 80 series produces a well controlled, homogeneous distribution of light that is synonymous with the HELLA brand. With a robust aluminium housing and polycarbonate lens construction, the R 80 series is an ideal upgrade for older halogen headlights offering a long, maintenance-free service life and reduced operating costs. The R 80 is also more compact than many other LED lighting modules with lens-based optics.

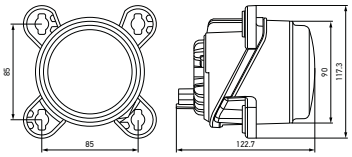


1M0 015 050-011



1K0 015 050-021

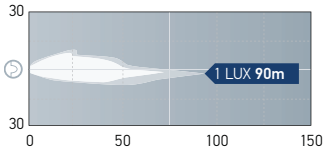
	
1 9AH 254 228-012 Carrier Frame	2 9XX 254 163-027 Mounting kit, 1-piece Clip
	
3 9XX 254 163-007 Mounting kit, 2-piece Clip	



Power Supply MULTI VOLT | Certified ECE CERTIFIED | Compliance ADR COMPLIANCE | Technology LED

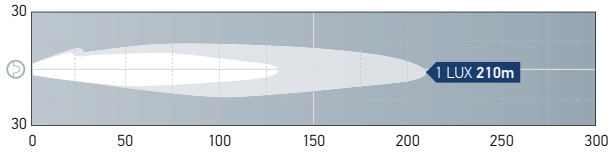
1M0 015 050-011	LOW BEAM
Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Requires optional mounting kit.
Voltage	9-32V
Power Consumption	24W
Light Source	LED
Weight	445 g
Connection	Integrated DT Type Socket, 2-Pin
Colour Temperature	5750 K
Lens Material	Coated Polycarbonate
Compliance	ECE R112/01 ECE R10 E1 8993

LED Essential R 80 Low Beam

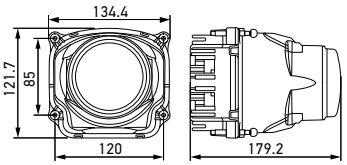


1K0 015 050-021	HIGH BEAM
Mounting	Standard 90mm module mounting (4x lugs, 85mm square pattern). Requires optional mounting kit.
Voltage	9-32V
Power Consumption	14.5W
Light Source	LED
Weight	445 g
Connection	Integrated DT Type Socket, 2-Pin
Colour Temperature	5750 K
Lens Material	Coated Polycarbonate
Compliance	ECE R149 Ref.20 ECE R10 E1 8993

LED Essential R 80 High Beam (incl. low beam)



To the product video



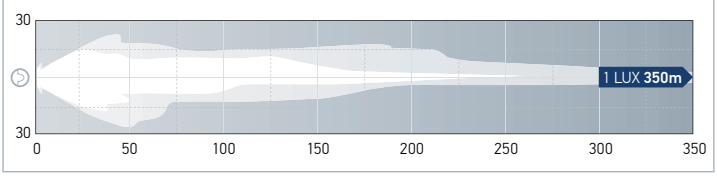
Power Supply MULTI VOLT | Certified ECE CERTIFIED | Compliance ADR COMPLIANCE | Technology LED

1LL 012 758-111 - L5570

LOW AND HIGH BEAM

Mounting	4x Pre-Mounted 10mm Ball Joints, 85mm x 120mm pattern. Mounting clips to suit 14/17mm holes for panel mounting included.
Voltage	9-32V
Power Consumption	Low Beam: 21W High Beam: 34.5W (Total, combined with low beam)
Light Source	LED
Weight	1280 g
Connection	Integrated DT Type Socket, 4-Pin
Colour Temperature	6000 K
Lens Material	Coated Polycarbonate
Compliance	ECE R112/01 Ref.20 ECE R10 (E1) 4209

Bi-LED Performance L 5570 High Beam (incl. low beam)

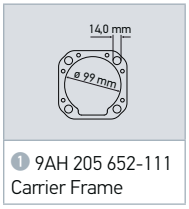


90mm Performance Sealed Bi-LED Headlamp Modules - L5570 Series

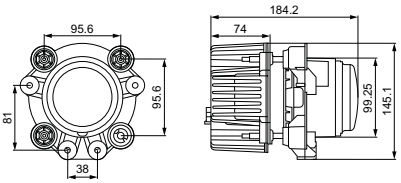
HELLA's top-end Bi-LED technology is the choice of premium European automobile manufacturers. The 2nd generation Bi-LED module with further enhanced lighting/ electronics allows for this OE-derived technology to be fitted to vehicles requiring a single module providing low and high beam illumination. Internal optics utilise a 55x70 square aperture lens, hidden behind an optically clear Coated PC external lens. Only passive cooling to the rear of the module is required. Control electronics provide a function output for failure control.



1LL 012 758-111
(L5570 Series)



1 9AH 205 652-111
Carrier Frame



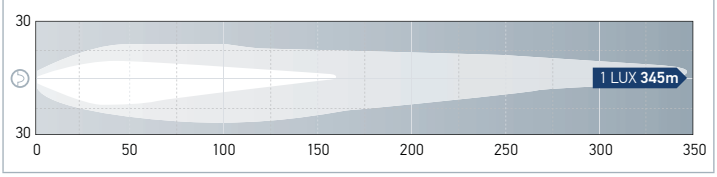
Power Supply MULTI VOLT | Certified ECE CERTIFIED | Compliance ADR COMPLIANCE | Technology LED

1LL 015 318-041 - L4565

LOW AND HIGH BEAM

Mounting	4x Bolted mount, Trapezoidal pattern
Voltage	9-32V
Power Consumption	Low Beam: 22W High Beam: 41W (Total, combined with low beam)
Light Source	LED
Weight	1565 g
Connection	Integrated DT Type Socket, 4-Pin
Colour Temperature	5500 K
Lens Material	Coated Polycarbonate
Compliance	ECE R149 Ref.17.5 ECE R10 (E1) 0020

Bi-LED Modules L 5570 High Beam (incl. low beam)



90mm Performance Sealed Bi-LED Headlamp Modules - L4565 Series

The L4565 Series Bi-LED module is the third Generation of the Performance series of 90mm LED Headlamp modules and introduces a new Zero Tolerance Integration mounting system.

The lamp is mounted by the front fascia and lamp aiming adjustments occur internally. 'Clearance gaps' required for conventionally mounted modules to achieve module aiming adjustments are no longer needed. the latest electronics and LED developments are also included to produce a headlamp module packed with the very best in OE style lighting technology.



1LL 015 318-041
(L4565 Series)

7" Round LED Headlamps - High/Low Beam and Daytime Running Lamp/Front Position

The high/low beam function of the 7" LED headlamp range offers 1150/750 lumen light output and a wide spread creating a superior light distribution increasing peripheral vision. With the added feature of Daytime Running Lamps and Front Position Lamps the 1058LED is a one-stop-shop for all headlamp needs, increasing visibility and therefore safety on the road.

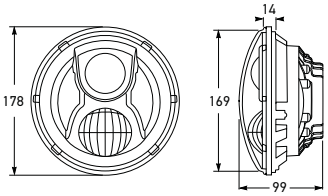
Combining the latest state of the art LED technology, multi-voltage 12/24V DC circuit design and precision optics, the retrofit lamps provide outstanding visibility, safety, and durability – making them one of the most advanced 7" LED headlamps available. The tough die-cast aluminium housing is IP 67 sealed against water and dust ingress with a UV resistant, hard coated polycarbonate lens making the HELLA's 7" Round LED Headlamp range perfect for use on and off-road.



1056LED

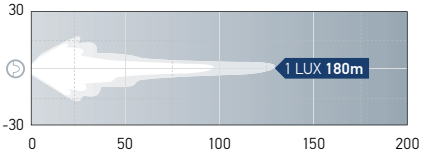


1058LED



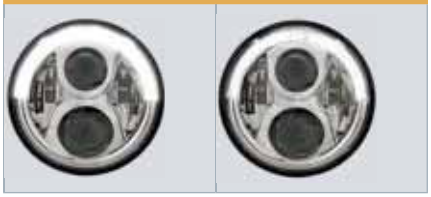
1056LED	1L6 958 307-001	LOW AND HIGH BEAM
Mounting	Retrofit 178 Ø (7") headlamps	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	High Beam: 35W Low Beam: 25W	
Light Output	High Beam: 1150 lumen Low Beam: 750 lumen	
Protection	Reverse polarity protection. IP 67 (Protection against dust and high-pressure water jets)	
Connection	3 PIN "H4" type male plug (100mm cable)	
Housing Material	Die-cast Aluminium	
Lens Material	Coated polycarbonate	
Compliance	ECE R112/01 Ref. 12.5 E11 7581 ADR 46/00	

1056LED/1058LED Low Beam distance (m). Recorded with single lamp.



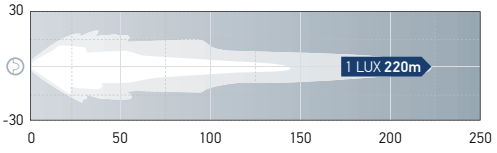
1058LED	1L6 958 307-011	LOW AND HIGH BEAM + PO + DRL
Power Consumption	High Beam: 35W Low Beam: 25W Daytime Running Lamp: 15W (1058LED version only) Front Position: 2W (1058LED version only)	
Cable Length	Part No. 1058LED has 2 additional 100mm pre-wired cables with male blade terminals for front position and daytime running lamp functions.	
Compliance	ECE R112/01 Ref. 12.5 E11 6081 ECE R87/00 ECE R7/02 ADR 46/00, ADR 49/00, ADR 76/00	
Other specifications as per Part No. 1056LED		

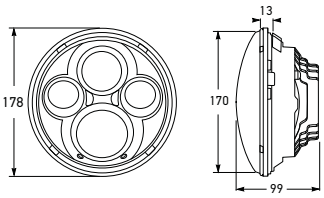
1058LED LAMP FUNCTIONS



Daytime Running Lamp Front position

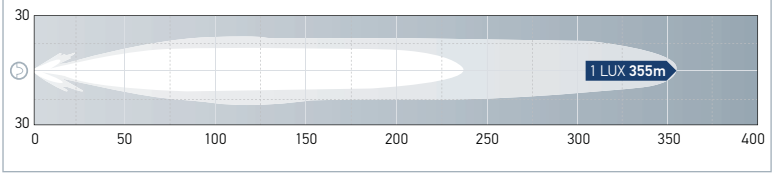
1056LED/1058LED High Beam distance. (m). Recorded with single lamp.





1358LED	1L6 958 307-021	HIGH BEAM
Mounting	Retrofit 178 Ø (7") headlamps	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	
Power Consumption	60W	
Light Output	1440 lumen	
Operating Temperature	-40°C to 65°C	
Protection	Reverse polarity protection. IP 67 (Protection against dust and high pressure water jets)	
Cable Length	2 x 100mm cables with male blade terminals	
Housing Material	Die-cast Aluminium	
Lens Material	Coated polycarbonate	
Compliance	E11 7501 ECE R112/01 Ref. 30 ADR 46/00	

1358LED High Beam distance (m). Recorded with single lamp.



7" Round LED Headlamp High Beam

The 1358LED lamp features a high beam function with a massive 1440 lumen light output for only 60W. Combining the latest state of the art LED technology, multi-voltage 12/24V DC circuit design and precision optics, the retrofit lamps provide outstanding visibility, safety, and durability – making them one of the most advanced 7" LED headlamps available.

The tough die-cast aluminium housing is IP67 sealed against water and dust ingress with a UV resistant, hard coated polycarbonate lens making HELLA's 7" Round LED Headlamp perfect for use on and off-road.

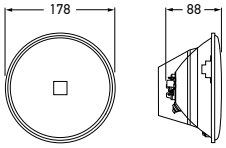


SEMI SEALED HEADLAMPS AND HOUSINGS - 7" ROUND

178mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with sealing cap.





1056	1L6 002 395-843	
Voltage	Globe to be ordered separately	
Globes to Suit		12V 24V
	Headlamp:	XD1260/55 XD2475/70
Compliance	ADR 46/00	
Where front position lamp is required, use Part No. 1058.		



Rear view

178mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder and sealing boot.



1058	1L6 002 395-132	
Voltage	Globes to be ordered separately	
Globes to Suit		12V 24V
	Headlamp:	XD1260/55 XD2475/70
	Front position:	HL124 HL244
Compliance	ADR 46/00	ADR 49/00



Rear view

178mm H4 Halogen High/Low Beam Insert - Hardened Glass

High performance halogen headlamp insert fitted with extremely robust hardened glass lens providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24V and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.

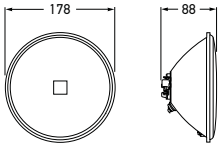


1058HD	1L6 002 395-261	
Voltage	Globes to be ordered separately	
Globes to Suit		12V 24V
	Headlamp:	XD1260/55 XD2475/70
	Front position:	HL124 HL244
Compliance	ADR 46/00	ADR 49/00



Rear view

178mm H3 Halogen Driving Lamp Insert

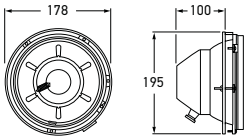


Suitable for use as high beam headlamp in most 178mm round headlamp carriers (e.g. Part No. 1016).



9.1358.01	9DS 113 469-001	
Voltage	Globe to be ordered separately	
Globes to Suit	12V 24V	YC1255, YC12100 YC2470, YC24100
Compliance	ADR 46/00	
3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes. Globes to be ordered separately.		

178mm Headlamp Housing



Headlamp housing and chrome rim for halogen or conventional sealed beams and inserts 178mm in diameter. Fully sealed steel cowl, complete with adjusting mechanism for vertical and horizontal alignment, sealing gasket, stainless steel retaining rim and 3 pin wiring harness with separate park lamp connection. Ideal for truck, bus or body builders. Suits Mercedes-Benz, Kenworth, Mack etc. Outer chrome rim (Part No. 1017) to suit headlamp housing Part No. 1016.

1016	1V6 905 152-001	HEADLAMP HOUSING
1017	9AB 912 420-511	CHROME RIM

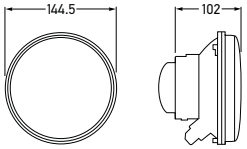


SEMI SEALED HEADLAMPS - 5 ¾" ROUND

146mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.





1055	1L3 002 850-062	
Voltage	Globes to be ordered separately	
Globes to Suit	Headlamp: Front position:	12V XD1260/55 HL124
		24V XD2475/70 HL244
Compliance	ADR 46/00	ADR 49/00



Rear view

146mm H4 Halogen High/Low Beam Insert - Hardened Glass

High performance halogen headlamp Insert fitted with extremely robust hardened glass lens, providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24V and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.



1055HD	1L3 002 850-211	
Voltage	Globes to be ordered separately	
Globes to Suit	Headlamp: Front position:	12V XD1260/55 HL124
		24V XD2475/70 HL244
Compliance	ADR 46/00	ADR 49/00

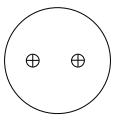


Rear view

114mm Spot Lamp/Long Range Beam

Spot Lamp Beam to suit hand held spot lamp Part No. 1520.



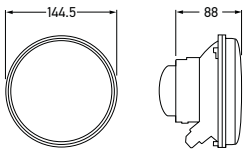


2 screw terminals

1089	1M4 905 905-001
Trade Part No.	4509
Voltage	12V
Power Consumption	100W

146mm H1 Halogen High Beam Insert

Semi-sealed headlamp, for high beam section of dual headlamp systems with sealing boot.





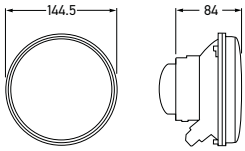
1053	1K3 114 155-001		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp:	12V C1255	24V C2470
Compliance	ADR 46/00		
Earth terminal is a 'Post' (bullet) type connection.			



Rear view

146mm H1 Halogen Low Beam Insert

Low beam insert with front position lamp globe holder. Suitable for dual headlamp systems.





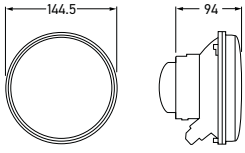
1054	1M3 114 178-001		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp: Front position:	12V C1255 HL124	24V C2470 HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view. Note: Sealing boot not included in scope of supply

146mm H1 Halogen Long Range Driving Insert

Semi-sealed headlamp, for high beam section of dual headlamp systems with sealing boot.





1040	1K3 002 425-191		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp:	12V C1255, C12100	24V C2470, C24100

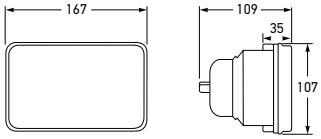


Rear view

165 x 100mm H1 Halogen High Beam Insert

Semi-sealed Headlamp with sealing cap.





1041	1KB 003 177-061		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp:	12V C1255	24V C2470
Compliance	ADR 46/00		



Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp with sealing boot and wiring adaptor.



1042	1LB 003 177-301		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
Compliance	ADR 46/00		



Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp and front position lamp with sealing boot.



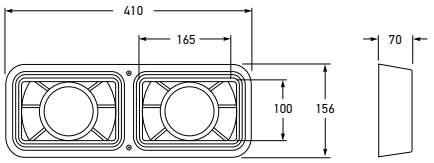
1044	1LB 003 177-511		
Voltage	Globes to be ordered separately		
Globes to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view

Twin Rectangular Headlamp Housing

For most 165 x 100mm Rectangular Headlamp Units. Chrome plated outer rim. Complete with adjusting mechanisms for vertical/horizontal alignment and wiring loom. Ideal for truck, bus or body builders.



1025	1VB 950 951-001	
Spare Part	9.1025.07	Chrome Plated Outer Rim



200 x 142mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder.



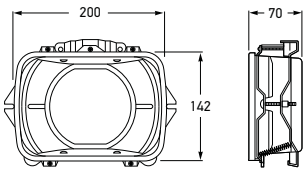
1043	1LE 003 427-041		
Voltage	Globes to be ordered separately		
Globes to Suit		12V	24V
	Headlamp:	XD1260/55	XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view

Rectangular Headlamp Housing

Suits 200 x 142mm Rectangular Headlamp Units (Part No. 1043). Ideal for truck, bus or body builders.



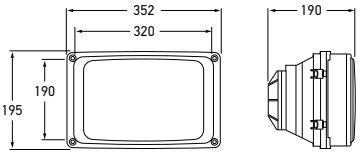
1024	1VE 905 153-001



H4 Halogen High/Low Beam Headlamp Assembly

Lamp unit lens dimensions 352 x 195mm, complete with mounting frame and adjusting mechanisms for vertical and horizontal alignment. Fully enclosed housing with removable rear sealing cap for globe replacement access. Ideal for truck, bus or body builders.



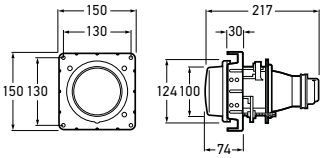


1027	1LG 003 434-181		
Mounting	Simple four-point mounting.		
Voltage	Globes to be ordered separately.		
Globes to Suit		12V	24V
	Headlamp:	XD1260/55	XD2475/70
	Front position:	HL124	HL244
Spare Parts	9.1027.01	Clear Lens	
	9.1027.02	Reflector	
	9.1027.03	Lens Gasket	
	9.1027.04	Sealing Cap	
Compliance	ADR 46/00	ADR 49/00	

DE H1 Low Beam Headlamp Assembly

Compact DE H1 Low Beam Headlamp Assembly with 100mm light aperture. Supplied with protective rubber sealing cap.





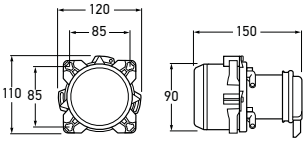
1028	1BL 007 834-001	
Voltage	Globes to be ordered separately.	
Globes to Suit	12V	C1255
	24V	C2470
Spare Part	9.1028.07	Rubber Protective Cap
Compliance	ADR 46/00	



9.1028.07

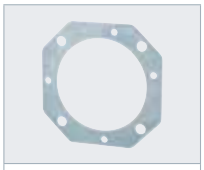
DE H7 Low Beam Headlamp Assembly

Compact DE H7 Low Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.





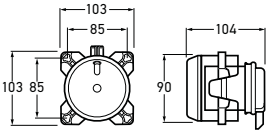
1029-12V	1BL 008 193-001		12 VOLT
Globes to Suit	12V 24V	CA1255 (Included) CA2470	
Spare Parts	9.1029.09	Supporting Frame	
Compliance	ADR 46/00		



9.1029.09

FF H7 Main Beam Headlamp Assembly with Position Lamp

Compact FF H7 Main (High) Beam Headlamp Assembly with 90mm light aperture and inbuilt position lamp. Supplied with protective rubber sealing cap and position lamp connector set.





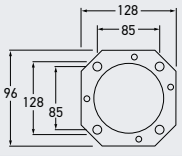
1030-12V	1K0 008 191-001		12 VOLT
1030-24V	1K0 008 191-021		24 VOLT
Globes to Suit	Headlamp: Front position:	12V CA1255 HL124	24V CA2470 (Included) HL244 (Included)
Spare Parts	9.1029.08 9.1029.09	Position lamp connector set Supporting Frame	
Compliance	ADR 46/00	ADR 49/00	



9.1029.08



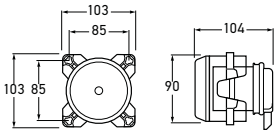
9.1029.09



9.1029.09

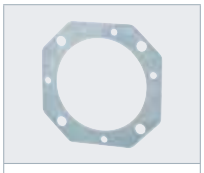
FF H7 Main Beam Headlamp Assembly

Compact FF H7 Main Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.





1031-24V	1K0 008 191-041		24 VOLT
Globes to Suit	12V 24V	CA1255 CA2470 (Included)	
Spare Parts	9.1029.09	Supporting Frame	
Compliance	ADR 46/00		



9.1029.09

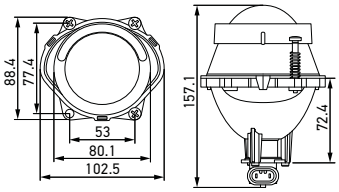
60mm Universal Halogen Headlamp Modules

These headlamp modules were developed for maximum lighting performance with a specified size. In addition, a solution for practice-oriented installation was important. A non-patterned lens is utilised for the high and low beam. An HB3 (output 60 W) is used as a light source for both high and low beam.

The module comprises a glass lens, lens retaining ring (black plastic), spacer ring (black plastic) and a die-cast aluminium reflector with 4 mounting brackets.



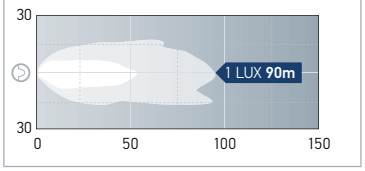
1TL 998 570-641



Certified ECE CERTIFIED | Compliance ADR COMPLIANCE | Globe Included 12V GLOBE INC

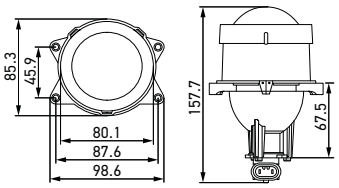
1TL 998 570-641	LOW BEAM (MOTORCYCLE/ POWERSPORTS ONLY)
Voltage	12V
Globes to Suit	12V: HB3 60W (CB1265)
Weight	374 g
Lens Material	Glass
Compliance	ECE R113 D E4 0237

Module 60 Halogen Low Beam



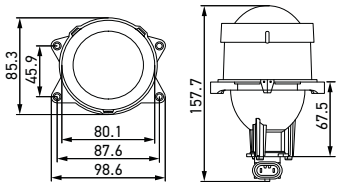


1KL 998 570-621



Certified ECE CERTIFIED | Compliance ADR COMPLIANCE | Globe Included 12V GLOBE INC

1KL 998 570-621	HIGH BEAM
Voltage	12V
Power Consumption	60W
Globes to Suit	12V: HB3 60W (CB1265)
Weight	374 g
Lens Material	Glass
Compliance	ECE R112/01 Ref.10 E4 24910



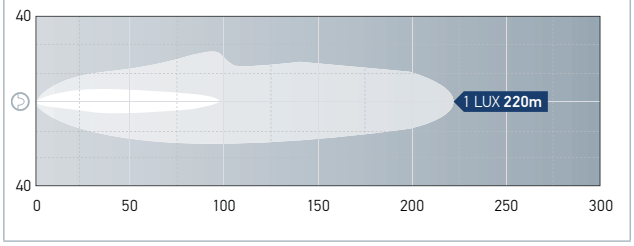
Certified ECE CERTIFIED | Compliance ADR COMPLIANCE | Globe Included 12V GLOBE INC

1KL 998 570-631	HIGH BEAM + PO
Voltage	12V
Globes to suit	Headlamp 12V: HB3 60W (CB1265) Position Light 12V: W5W (W125)
Weight	330 g
Compliance	ECE R112/01 Ref.10 E4 26353



1KL 998 570-631

Module 60 Halogen High Beam



Fog and Driving Lamps

Whether in the urban jungle, the early morning mist of a country road, Autumn fog or off-road, superior lighting performance significantly enhances your driving safety.





Driving lights shown for promotional purposes only. Lighting installation shown may not be legal for use in all jurisdictions.

Contents

Fog and Driving Lamps

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LED Light Bars..... 140-147

Xenon Gas Discharge Driving Lamps .. 120-122

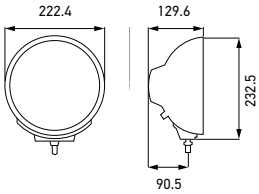
Rallye 4000 LED Driving Lamp

The Rallye 4000 LED Driving Lamp combines performance and durability. Available with Pencil Beam or Spread Beam light distribution, the high efficacy from the latest LED technology provides almost 1.3km of clear white (5900K) light from the Pencil Beam version with a low power consumption of just 33W.

LED technology combined with the durable design of the Rallye 4000 LED, which features a high-quality, full metal housing and zinc plated die-cast mounting bracket, allows for long service life, backed by a 3 year warranty.

A replaceable LED-insert with polycarbonate lens is available.

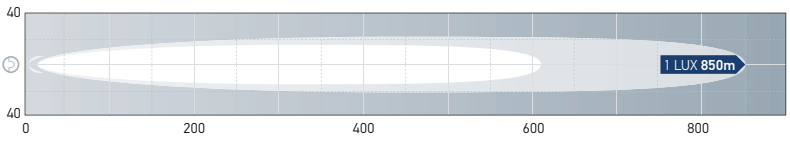




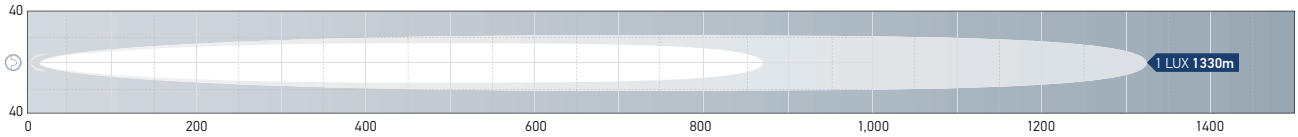
1366LED	1F8 016 560-101	**SPREAD BEAM**
1365LED	1F8 016 560-111	**PENCIL BEAM**
Mounting	High-quality, robust full metal housing and zinc plated die-cast mounting bracket	
Voltage	Multi-voltage: suitable for 12V DC and 24V DC electrical supplies	
Power Consumption	2700 mA / 32.4 W at 12V DC 1350 mA / 32.4 W at 24V DC	
Weight	2.7kg	
Connection	Supplied with 400 mm long removable connection lead	
Light Source	Clear white (5900K) LED light	
Protection	Ingress protection rating: IP X9K, IP 6K7	
Compliance	E1 8873 R10/05	
Accessory	9BG 150 117-021	Chrome housing with external plug and connection cable 1
Spare Parts	1F8 241 430-011* 1F8 241 449-011*	Driving Lamp insert Spread Beam 2 Driving Lamp insert Pencil Beam 3

* Suitable for upgrading existing Rallye 3003 and 4000 series halogen driving lamps

1366LED Rallye 4000 LED Spread Beam, pair of lamps

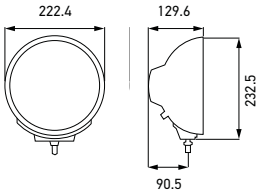


1366LED Rallye 4000 LED Pencil Beam, pair of lamps





1 9BG 150 117-021 Chrome Housing	2 1F8 241 430-011 Insert, Spread beam	3 1F8 241 449-011 Insert, Pencil beam



Luminator 3.0 LED Driving Lamp

The revolutionary Luminator LED Driving Lamp now features a distinctive position lamp function made possible by HELLA's innovative Edge Light technology. Utilising the Rallye 4000 metal body, which has proven itself on rally cars and heavy machinery, these lamps are sturdy and reliable. With efficient low power consumption as well as high efficacy from the latest technology allowing up to nearly 600m of light for only 2x15W of power.

A replaceable LED headlamp insert with shock-resistant polycarbonate lens is also available.

1F8 016 560-001 – Satin Black (ECE Ref. 25)	ADR	WIDE BEAM
1F8 016 560-011 – Satin Black (ECE Ref. 50)	ADR	NARROW BEAM
1F8 016 560-021 – Chrome (ECE Ref. 25)	ADR	WIDE BEAM
1F8 016 560-031 – Chrome (ECE Ref. 50)	ADR	NARROW BEAM

Mounting	High-quality, robust full metal housing and zinc plated die-cast mounting bracket				
Voltage	Multi-voltage: suitable for 12V and 24V electrical supplies				
Power Consumption	2.4 W position light and 14.5 W high beam at 12V DC 5 W position light and 14.5 W high beam at 24V DC				
Weight	2.7kg				
Connection	Supplied with 2200 mm 'flying lead' connection				
Light Source	Clear white (5900K) LED light				
Protection	Ingress protection rating: IP X9K, IP 6K7				
Compliance		E1 8873	R10/05		
	1F8 016 560-001/021	E24 5919	R112/01	R7	Ref. 25
	1F8 016 560-011/031	E24 5920	R112/01	R7	Ref. 50
Accessory	9BG 150 117-021	Luminator 3.0 LED driving lamp housing, chrome, with external connector and connecting cable			
Spare Parts	1F8 241 400-011	Replacement insert - Wide Beam (ECE Ref. 25) 1			
	1F8 241 429-011	Replacement insert - Narrow Beam (ECE Ref. 50) 2			

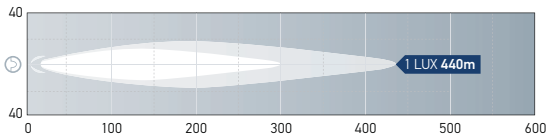


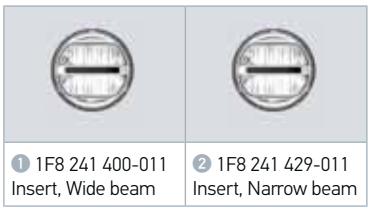
Chrome housing



Satin black housing

Luminator LED Wide Beam (ECE Ref.25), pair of lamps

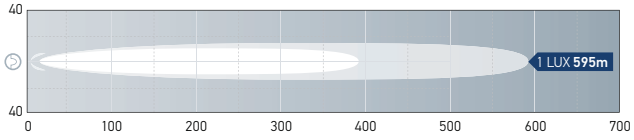




1 1F8 241 400-011
Insert, Wide beam

2 1F8 241 429-011
Insert, Narrow beam

Luminator LED Narrow Beam (ECE Ref.50), pair of lamps





8125	8XS 147 945-001	PROTECTIVE COVER
8126	9HG 148 995-001	PROTECTIVE GRILLE
8141	9HD 905 445-001	CLEAR PROTECTIVE COVER

Accessories



LED Luminator Compact Spread Beam Driving Lamp

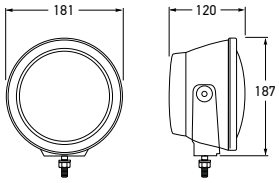
Compact housing with powerful LED technology and hard coated PC lens. Suitable for off-road use, briefly immersible (up to 5 minutes fording at up to 0.5m in clear water). The heavy duty version has a 2500mm ventilation hose and T-piece to permit fording even in muddy water. Fitted with 3.0m, two-pole cable (with bare ends).



Chrome Rim - 1394LED



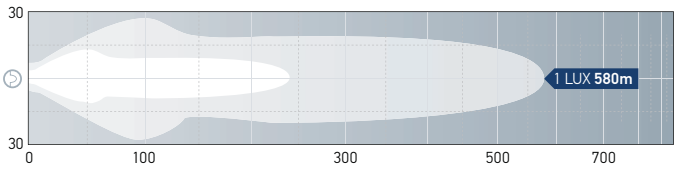
Heavy Duty Black Rim - 1394LEDHD



Compliance ADR COMPLIANCE | Power Supply MULTI VOLT | Power Supply LED | Certified ECE CERTIFIED

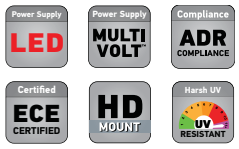
1394LED	1F3 011 815-001 – Chrome Rim ADR	SPREAD BEAM
1394LEDHD	1F3 011 815-031 – Black Heavy Duty ADR	SPREAD BEAM
Mounting	Upright or Pendant (by inverting the bracket)	
Voltage	Multi-voltage: suitable for 12V and 24V electrical supplies	
Power Consumption	Driving lamp: 11W	
Lead Length	30 centimetres	
Compliance	E1 3738 R10/05 Ref. 45	
Accessory	8163 Clear Protective Cover 1	
Spare Parts	9.1394LED.01 Lens with Chrome Rim (Suits 1394LED) 9.1394LEDHD.01 Lens with Black Rim (Suits 1394LEDHD)	

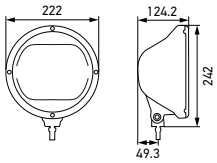
LED Luminator Compact Spread Beam, distance. Single lamp.





1 8163 Clear Protective Cover





Rallye 3003 LED Driving Lamp

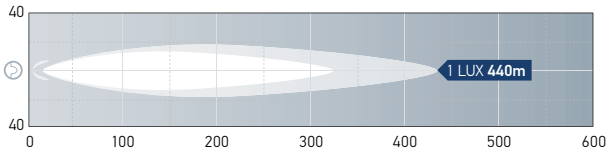
The Rallye 3003 LED is an auxiliary Driving Lamp with integrated LED position light that uses state-of-the-art EdgeLight technology. Combined with an impact-resistant housing made of high-quality thermoplastic material with chrome finish and a zinc-coated steel mounting bracket, the Rallye 3003 LED's good looks are matched by its durability.

A replaceable LED driving lamp insert with shock-resistant polycarbonate lens available.

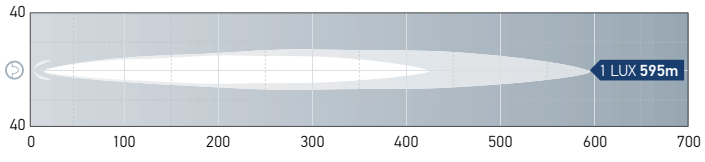


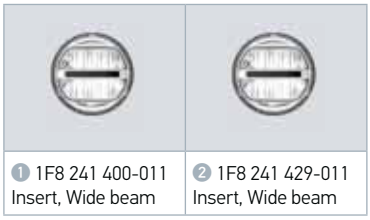
1F8 016 797-001 (ECE Ref. 25)					
1F8 016 797-011 (ECE Ref. 50)					
Mounting	Mounting bracket made of zinc-coated sheet steel with large adjustment range				
Voltage	Multi-voltage: suitable for 12V DC and 24V DC electrical supplies				
Power Consumption	2.4 W position light and 14.5 W high beam at 12V DC 5 W position light and 14.5 W high beam at 24V DC				
Weight	1.6kg				
Housing	High quality thermoplastic housing with chrome finish				
Light Source	LED light				
Protection	Ingress protection rating: IP X9K, IP 6K7				
Compliance		E1 8873	R10/05		
	1F8 016 797-001	E24 5919	R112/01	R7	Ref. 25
	1F8 016 797-011	E24 5920	R112/01	R7	Ref. 50
Spare Parts	1F8 241 400-011 1F8 241 429-011	Replacement insert - Wide Beam (ECE Ref. 25) 1 Replacement insert - Narrow Beam (ECE Ref. 50) 2			

Rallye 3003 LED Wide Beam, pair of lamps (ECE Ref. 25)



Rallye 3003 LED Narrow Beam, pair of lamps (ECE Ref.25)





1 1F8 241 400-011 Insert, Wide beam	2 1F8 241 429-011 Insert, Wide beam

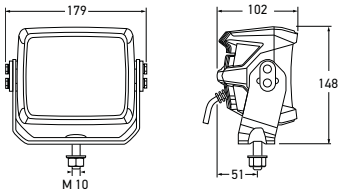
RokLUME 380 N LED Driving Lamp 12V DC

The RokLUME 380 N LED Driving Lamp (ECE Ref. 40) is an extremely durable wide spot light for road illumination.

Using LED technology combined with state-of-the-art electronics, it provides a light output of up to **7800 lumens** with a colour temperature of **5000K**, yet power consumption is a highly efficient 84 W.

Originally developed to perform in the toughest operating environments such as mining, the RokLUME 380 N has a premium aluminium housing with NanoSafe coating (providing a non-stick and easy to clean surface), high-impact hard coated polycarbonate lens and heavy duty stainless steel surrounding bracket.

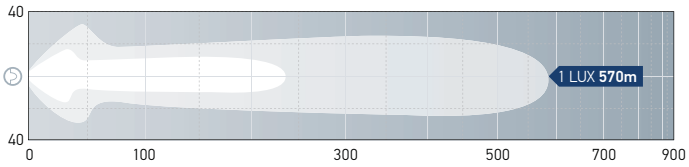


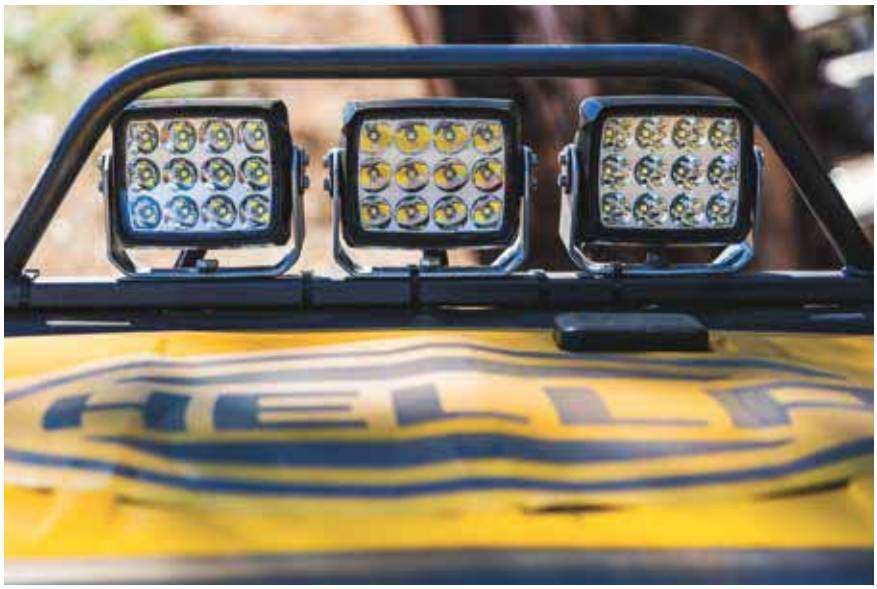


1FA 996 197-151 - Pencil Beam, 12V DC (ECE Ref. 40)	ADR
1FA 996 197-181 - Pencil Beam, 24V DC (ECE Ref. 40)	ADR
Mounting	Upright or Pendant. Heavy Duty bracket resists vibration.
Power Consumption	Max. 84W (Reduces if Thermal Management is in effect)
Max. Light Output	7800 lumens
Colour Temperature	5000K
Temperature Range	-40°C to +90°C
Protection	Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)
Housing	Aluminium
Lens Material	Hard-coated PC (Optional 2.0 metre DT Pigtail Loom to be ordered separately)
Cable Length	300mm Cable with DT Socket
Compliance	E1 CE CISPR 25 Class 5 Ref. 40
Accessory	9.1551LED.06 DT Pigtail Loom, 2 metres

RokLUME 380N Pencil Beam distance. Recorded with single lamp. Distance in metres.

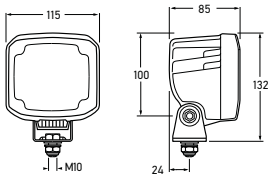
1FA 996 197-151 RokLume 380 N LED Pencil Beam







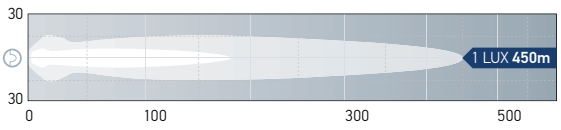




All dimensions in mm.

1566LEDPB	1GA 995 606-021 – Ultra Beam LED Gen II Driving Lamp 12/24V DC	PENCIL BEAM
Mounting	Upright or Pendant	
Voltage	Multivolt 9-33V DC	
Power Consumption	56W	
Max. Light Output	4000 lumens	
Colour Temperature	6500K	
Temperature Range	-40°C to +50°C	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Compliance	E1 CE	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres

1566LEDPB – Pencil Beam





Ultra Beam LED Gen II Driving Lamp 9-33V DC

The popular Ultra Beam LED II series has now been expanded to include a Pencil Beam version. The light output is a powerful **4000 lumens** with a colour temperature of **6500K**. The light is distributed by a specially developed multi-faceted reflector and nylon (PA12) lens, thus ensuring homogeneous illumination. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 33 Volts DC.

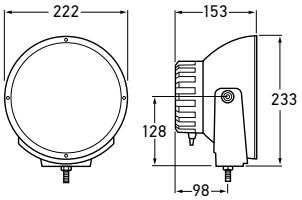




Predator iX Series Driving Lamps

New generation Predator Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy duty applications.



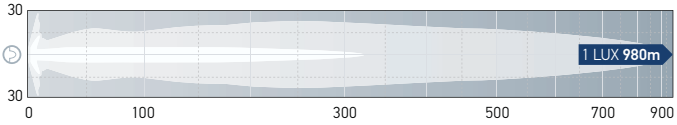


1387	1F8 007 560-711 **High Boost iX Driving Lamp - 12V DC**	**PENCIL BEAM**
1387-24V	1F8 007 560-751 **High Boost iX Driving Lamp - 24V DC**	**PENCIL BEAM**
1388	1F8 007 560-701 **High Boost iX Driving Lamp - 12V DC**	**SPREAD BEAM**
1388-24V	1F8 007 560-741 **High Boost iX Driving Lamp - 24V DC**	**SPREAD BEAM**

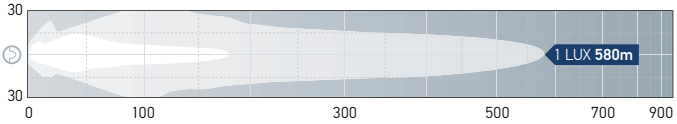
Mounting	Upright or Pendant (by inverting the bracket)
Voltage	Determined by ballast (12V DC integrated ballast, 24V DC integrated ballast)
Power Consumption	35W globe (42W total)
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)
Lead Length	80 Centimetres
Accessories	8125 Protective Cover 1 8126 Protective Grille 2 8141 Clear protective Cover 3
Spare Parts	9.1387.01 HB iX Pencil Beam Insert 9.1388.01 HB iX Spread Beam Insert

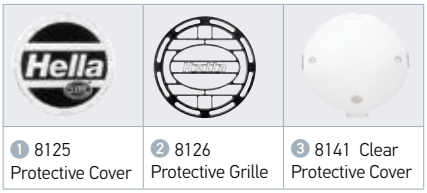
iX Series Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1387 35W Pencil Beam



1388 35W Spread Beam

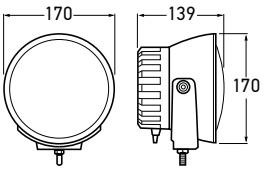




1 8125 Protective Cover

2 8126 Protective Grille

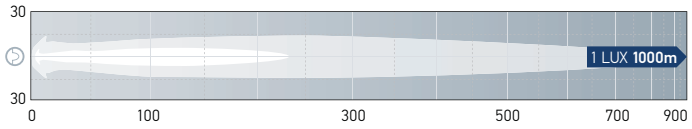
3 8141 Clear Protective Cover



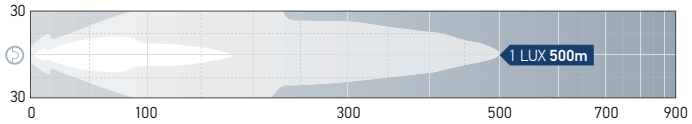
1383	1F3 009 094-301 – XGD Driving Lamp - 12V DC	PENCIL BEAM
1384	1F3 009 094-311 – XGD Driving Lamp - 12V DC ADR	SPREAD BEAM
Mounting	Upright or Pendant (by inverting the bracket)	
Voltage	12V DC integrated ballast	
Power Consumption	35W globe (42W total)	
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)	
Accessory	8155 Clear Protective Cover (1)	
Spare Parts	9.1381.01 HB Pencil Beam insert 9.1382.01 HB Spread Beam insert	

iX Series Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1383 35W Pencil Beam



1384 35W Spread Beam



Rallye FF 4000 Compact iX Series

New generation Rallye FF 4000 Compact iX Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built electronic ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy duty applications.



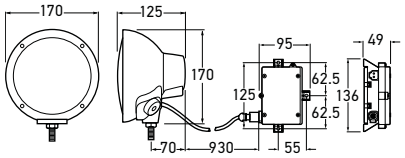


(1) 8155 Clear Protective Cover

Rallye FF 4000 Compact Series

Compact Xenon Gas Discharge Driving Lamp featuring modern clear glass lens and newly developed high-boost free-form (FF) reflector. Weatherproof black metal housing. Suitable for heavy duty applications.





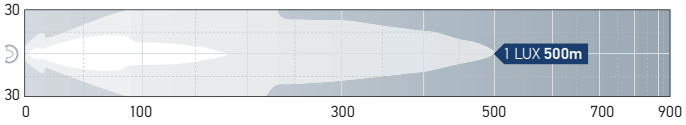
1382	1F3 009 094-141 Compact XGD Driving Lamp - 12V DC	SPREAD BEAM
Mounting	Upright	
Voltage	12V DC integrated ballast	
Power Consumption	35W globe (42W total)	
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)	
Accessories	8155 Clear Protective Cover (1)	
Spare Parts	9.1382.01 HB Spread Beam insert 9.1319.03 Ballast 12V DC 9.1319.04 Ballast 24V DC 9.1365.06 Bracket adjusting screw set M8 9.1378.08 Bracket assembly and loom	



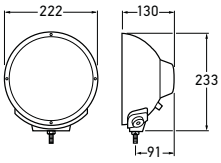
(1) 8155 Clear Protective Cover

Compact XGD Spread Beam distance. Recorded with single lamp. Distance in metres.

1382 35W Spread Beam



Rallye FF 4000 Series



Globe Included 12V GLOBE INC

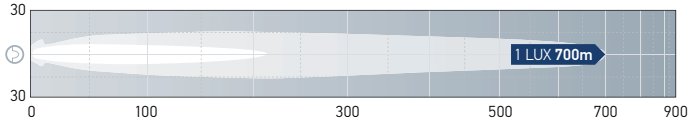
1365	1F8 007 560-121 – **100W Driving Lamp - 12V**	**PENCIL BEAM**
1366	1F8 007 560-101 – **100W Driving Lamp - 12V**	**SPREAD BEAM**
1165	1F8 007 560-111 – **Fog Lamp White Optic - 12V**	**WIDE CORNERING**



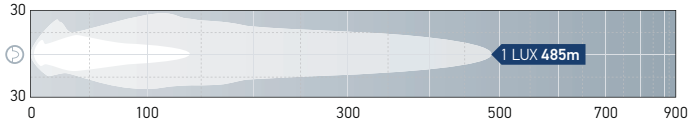
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)	
Spare Parts	**9.1365.01** **9.1366.01** **9.1365.05** **9.1365.06** **9.1365.07** **9.1365.08**	Pencil Beam insert Spread Beam insert Male and Female Socket Connector Set M8 Screw Set Lens Retaining Rim Bracket Assembly and Loom
Accessories	8125 8126 8141	Protective Cover 1 Protective Grille 2 Clear Protective Cover 3

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1365 100W Pencil Beam



1366 100W Spread Beam




Spread


Pencil


Fog



1 8125 Protective Cover

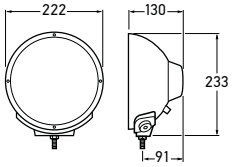

2 8126 Protective Grille


3 8141 Clear Protective Cover

Rallye FF 4000 Series

High-performance Driving Lamp with weatherproof chrome-plated metal housing and bracket. Suitable for extreme off-road environments. Supplied with Allen Keys and Protective Cover, Part No. 8125.





Globe Included 12V GLOBE INC

1365CHROME	1F8 007 560-141 –100W Chrome Driving Lamp - 12V	PENCIL BEAM
1366CHROME	1F8 007 560-151 –100W Chrome Driving Lamp - 12V	SPREAD BEAM
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)	
Spare Parts	**9.1365.01** Pencil Beam insert **9.1366.01** Spread Beam insert **9.1365.05** Male and Female Socket Connector Set **9.1365.06** M8 Screw Set	
Accessories	8125 Protective Cover 1 8126 Protective Grille 2 8141 Clear Protective Cover 3	



Spread



Pencil



1 8125 Protective Cover



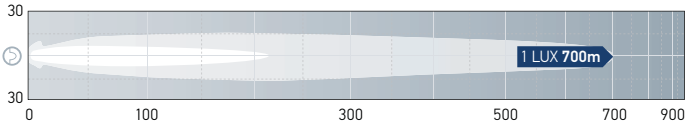
2 8126 Protective Grille



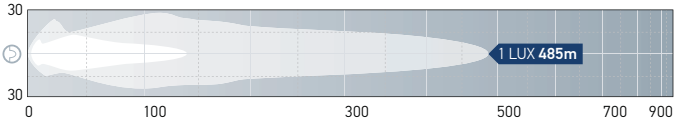
3 8141 Clear Protective Cover

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1365CHROME 100W Pencil Beam

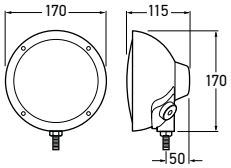


1366CHROME 100W Spread Beam



Rallye FF 4000 Compact Series

Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof black metal housing and bracket. Suitable for heavy duty applications.



Compliance ADR COMPLIANCE | Globe Included 12V GLOBE INC | Certified ECE CERTIFIED

1380	1F3 009 094-101 – **100W Compact Driving Lamp - 12V**	PENCIL BEAM
1378	1F3 009 094-021 – **100W Compact Driving Lamp - 12V** ADR	SPREAD BEAM

Mounting	Upright
Voltage	12V (globe included)
Power Consumption	100W
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.
Accessory	8155 Clear Protective Cover (1)

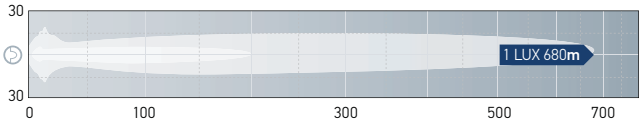
Spare Parts		
	9.1380.01	Pencil Beam insert
	9.1378.01	Spread Beam insert
	9.1365.06	M8 Screw Set
	9.1378.08	Bracket Assembly



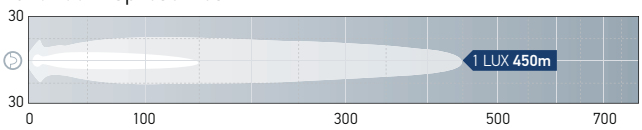
(1) 8155 Clear Protective Cover

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1380 100W Pencil Beam



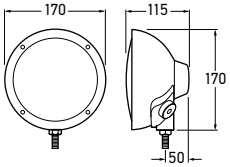
1378 100W Spread Beam



Rallye FF 4000 Compact Series

Compact Driving Lamps featuring modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof chrome-plated metal housing and bracket. Suitable for heavy duty applications.





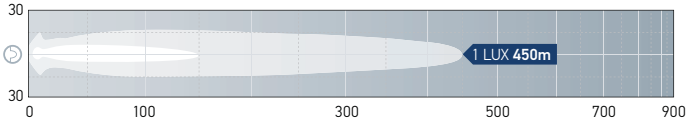
1378CHROME	1F3 009 094-031 100W Compact Chrome Driving Lamp 12V	SPREAD BEAM
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.	
Accessories	8155 Clear Protective Cover (1)	
Spare Parts	**9.1378.01** Spread Beam insert **9.1365.06** M8 Screw Set	

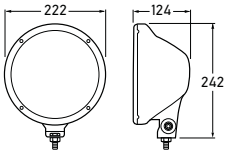


(1) 8155 Clear Protective Cover

100W Spread distance. Recorded with single lamp. Distance in metres.

1378CHROME 100W Spread Beam





Rallye 3003 Series

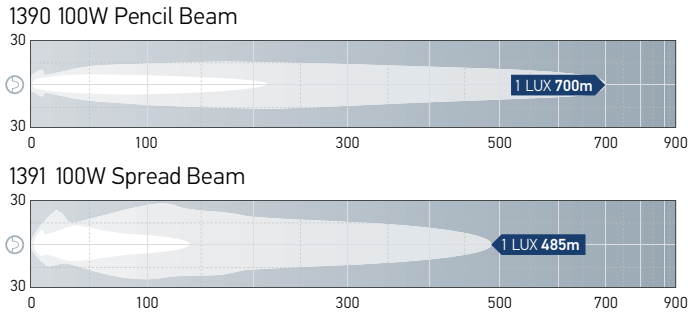
Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.



1390	1F8 009 797-221 **100W Driving Lamp - Silver Rim 12V**	**PENCIL BEAM**
1390CHROME	1F8 009 797-231 **100W Driving Lamp - Chrome Rim 12V**	**PENCIL BEAM**
1391	1F8 009 797-241 **100W Driving Lamp - Silver Rim 12V**	**SPREAD BEAM**
1391CHROME	1F8 009 797-251 **100W Driving Lamp - Chrome Rim 12V**	**SPREAD BEAM**

Mounting	Upright
Voltage	12V (globe included)
Power Consumption	100W
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)
Accessory	8161 Clear Protective Cover (1)
Spare Parts	9.1365.01 Pencil Beam insert 9.1366.01 Spread Beam insert

100W Pencil and Spread distance. Recorded with single lamp. Distance in metres.



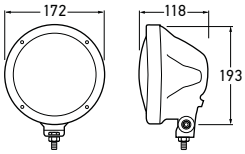


(1) 8161 Clear Protective Cover

Rallye 3003 Compact Series

Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.





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1392	1F3 010 119-031 **100W Driving Lamp - Silver Rim 12V**	PENCIL BEAM
1392CHROME	1F3 010 119-131 **100W Driving Lamp - Chrome Rim 12V**	PENCIL BEAM
1393	1F3 010 119-011 **100W Driving Lamp - Silver Rim 12V** ADR	SPREAD BEAM
1393CHROME	1F3 010 119-111 **100W Driving Lamp - Chrome Rim 12V** ADR	SPREAD BEAM

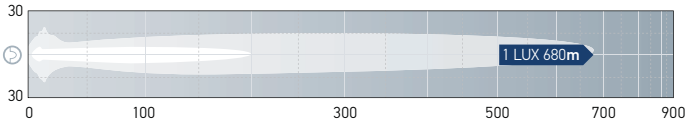
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Accessory	8162 Clear Protective Cover (1)	
Spare Parts	9.1380.01 9.1378.01	Pencil Beam insert Spread Beam insert



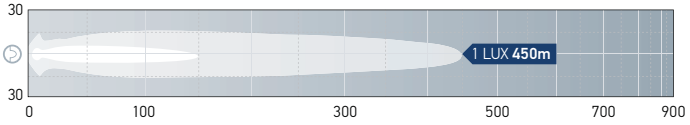
(1) 8162 Clear Protective Cover

100W Pencil and Spread distance. Recorded with single lamp. Distance in metres.

1392 100W Pencil Beam

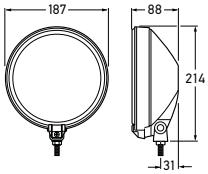


1393 100W Spread Beam



Rallye 1000 Series

High-performance Driving Lamps supplied with Protective Cover, Part No. 8118.

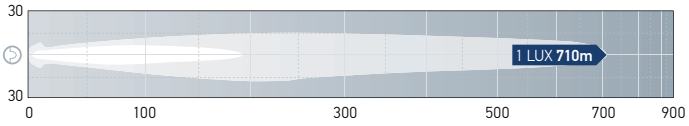




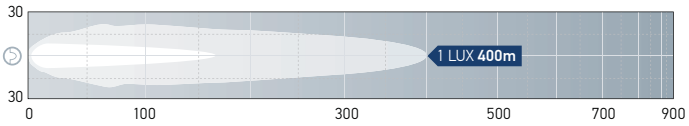
1362	1F7 004 700-171 – 100W Driving Lamp - 12V	PENCIL BEAM
1363	1F7 004 700-151 – 100W Driving Lamp - 12V ADR	SPREAD BEAM
Mounting	Upright or Pendant. Supplied with two point fixing bracket (Part No. 8004).	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H2 (CD12100, CD1255) 24V H2 (CD24100, CD2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Accessories	8134 Clear Protective Cover (1) 8004 Two Point Fixing Bracket Set (2)	
Spare Parts	**9.1362.01** Pencil Beam insert with globe holder **9.1363.01** Spread Beam insert **9.1362.08** Mounting Bracket assembly (without crossbolt, nut and washer) **9.1362.09** Body assembly **9.1363.08** Globe holder	

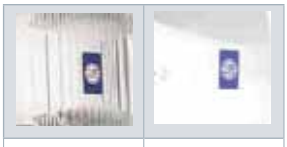
100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1362 100W Pencil Beam



1363 100W Spread Beam





Spread | Pencil



(1) 8134 Clear Protective Cover | (2) 8004 Two Point Fixing Bracket Set

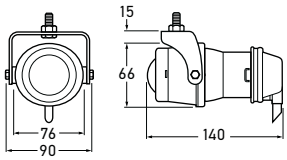
Micro DE Series

Compact Fog Lamp featuring a focused glass lens, modern free-form (FF) reflector, durable and lightweight magnesium housing and bracket. Kit includes 2 x Micro DE Fog Lamps, brackets, cabling, relay, switch and connectors.





1 9.115.08



5647	1NL 008 090-821 – Fog Lamp Kit - White Optic - 12V	
Mounting	Upright or Pendant. Ideal for installations in/below front apron or front spoilers with limited mounting space. Standard mounting bracket and pre-assembled wiring harness included.	
Voltage	12V (globe included)	
Power Consumption	55W	
Globe to Suit	12V H3 (YC1255)	
Accessory	9.1115.08	Adjustable bracket assembly for installation into vehicle bodywork (optional) 1

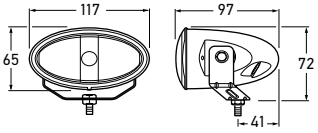
Comet FF 50 Series

Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.



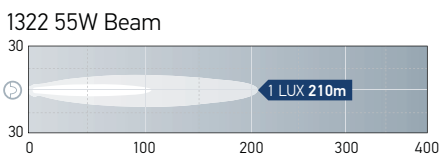


1 8147
Clear Protective Cover



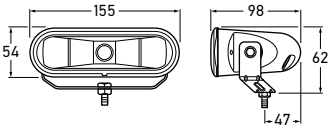
1322	1FA 008 283-011 – Driving Lamp - 12V
5613	1FA 008 283-811 – Driving Lamp - 12V
1122	1NA 008 283-001 – Fog Lamp - White Optic - 12V
5614	1NA 008 283-801 – Fog Lamp Kit- White Optic - 12V
Mounting	Upright or Pendant
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8147 Clear Protective Cover 1

1322 - 55W Beam distance. Recorded with single lamp. Distance in metres.



Comet FF 75 Series

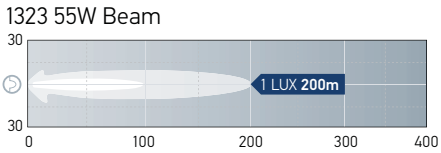
Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.





1323	1FA 008 284-011 – **Driving Lamp - 12V** ADR
5615	1FA 008 284-812 – **Driving Lamp - 12V** ADR
1123	1NA 008 284-001 – **Fog Lamp - White Optic - 12V** ADR
5616	1NA 008 284-802 – **Fog Lamp Kit- White Optic - 12V** ADR
Mounting	Upright or Pendant
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8148 Clear Protective Cover (1)

1323 - 55W Beam distance. Recorded with single lamp. Distance in metres.

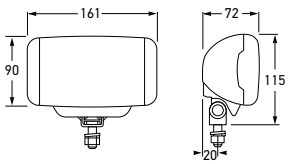




(1) 8148
Clear Protective Cover

Comet FF 450 Series

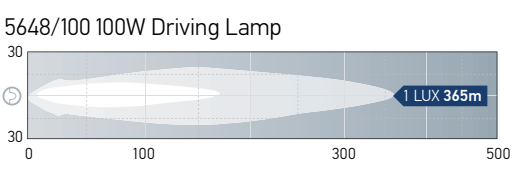
Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kit includes 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.





1324	1FB 010 951-001 – **Driving Lamp - 12V** ADR	SPREAD BEAM
5648/100	1FB 010 951-601 – **100W Driving Lamp - 12V** ADR	SPREAD BEAM
Mounting	Upright or Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes	
Compliance	(E1) 3221	
Spare Parts	9.1324.01 Driving lamp insert	
Accessory	8156 Clear Protective Cover (1)	

Comet FF 450 Spread Beam distance. Recorded with single lamp. Distance in metres.

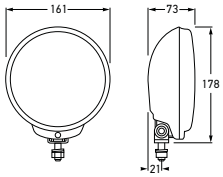




(1) 8156
Clear Protective Cover

Comet FF 500 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kit includes 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.



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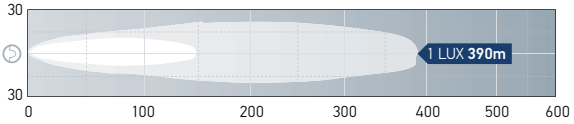
1325	1F6 010 952-001 – Driving Lamp - 12V ADR	SPREAD BEAM
5650/100	1F6 010 952-601 – 100W Driving Lamp - 12V ADR	SPREAD BEAM
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Compliance	E1 3222	
Spare Parts	9.1325.01 Driving Lamp insert	
Accessory	8157 Clear Protective Cover 1	



1 8157
Clear Protective Cover

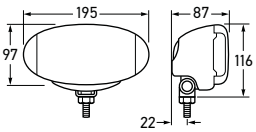
Comet FF 500 Spread Beam distance. Recorded with single lamp. Distance in metres.

5650/100 100W Driving Lamp



Comet FF 550 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kit includes 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.

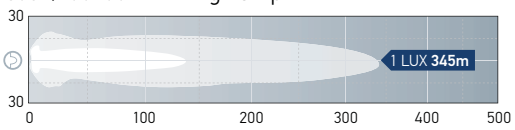




1326	1FD 010 953-001 – Driving Lamp - 12V ADR	SPREAD BEAM
5652/100	1FD 010 953-601 – 100W Driving Lamp - 12V ADR	SPREAD BEAM
Mounting	Upright or Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Compliance	(E1) 3223	
Spare Parts	9.1326.01 Driving Lamp insert	
Accessory	8158 Clear Protective Cover (1)	

Comet FF 550 Spread Beam distance. Recorded with single lamp. Distance in metres.

5652/100 100W Driving Lamp



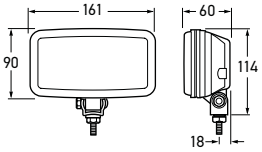


(1) 8158
Clear Protective Cover

Comet 450 Series

Supplied with Protective Cover, Part No. 8123. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.





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1310	1FB 005 860-033 – **Driving Lamp - 12V** ADR	SPREAD BEAM
5646/100	1FB 005 860-032 – **100W Driving Lamp - 12V** ADR	SPREAD BEAM
1110	1NB 005 860-001 – **Fog Lamp - White Optic - 12V** ADR	FOG BEAM
5645	1NB 005 860-002 – **Fog Lamp Kit- White Optic - 12V** ADR	FOG BEAM

Mounting	Upright and Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)
	Fog 12V H3 (YC1255)	24V H3 (YC2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1310.01	Driving Lamp insert with globe holder
	9.1110.01	Fog Lamp insert with globe holder
	9.1308.08	Mounting Bracket Assembly
	9.1310.09	Body Assembly
Accessories	8123 Protective Cover (1)	
	8136 Clear Protective Cover (2)	

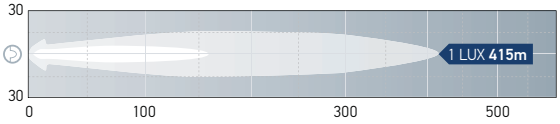


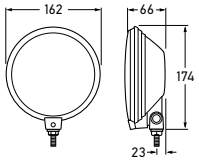
(1) 8123 Protective Cover

(2) 8136 Clear Protective Cover

Comet 450 Spread Beam distance. Recorded with single lamp. Distance in metres.

1310 100W Beam



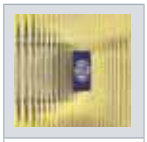


Comet 500 Series

Supplied with Protective Cover, Part No. 8121. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.



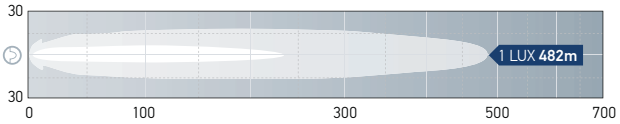
1308	1F4 005 750-301 – **Driving Lamp - 12V** ADR	**SPREAD BEAM**
5642/100	1F4 005 750-111 – **100W Driving Lamp - 12V** ADR	**SPREAD BEAM**
1108	1N4 005 750-041 – **Fog Lamp - Amber Optic - 12V** ADR	**FOG BEAM**
5641	1N4 005 750-042 – **Fog Lamp Kit - Amber Optic - 12V** ADR	**FOG BEAM**
Mounting	Upright and Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC1255) 24V H3 (YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1308.01 Driving Lamp insert 9.1308.08 Mounting Bracket Assembly 9.1308.09 Body Assembly	
Accessories	8121 Protective Cover 1 8137 Clear Protective Cover 2	



Fog

Comet 500 Spread Beam distance. Recorded with single lamp. Distance in metres.

1308 100W Beam



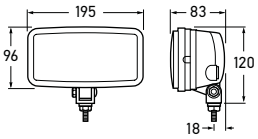


1 8121 Protective Cover

2 8137 Clear Protective Cover

Comet 550 Series

Supplied with Protective Cover, Part No. 8122. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.







Fog

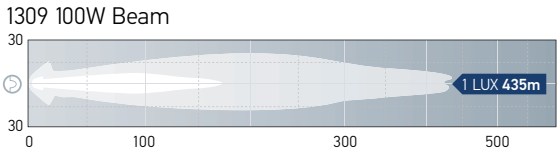


1 8122 Protective Cover

2 8138 Clear Protective Cover

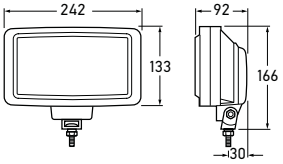
1309	1FD 005 700-111 – **Driving Lamp - 12V** ADR	SPREAD BEAM
5644/100	1FD 005 700-112 – **100W Driving Lamp - 12V** ADR	SPREAD BEAM
1109	1ND 005 700-021 – **Fog Lamp - Amber Optic - 12V** ADR	FOG BEAM
5643	1ND 005 700-022 – **Fog Lamp Kit - Amber Optic - 12V** ADR	FOG BEAM
Mounting	Upright and Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1309.01 Driving Lamp Insert 9.1109.01 Fog Lamp Insert (amber) 9.1308.08 Mounting Bracket Assembly	
Accessories	8122 Protective Cover 1 8138 Clear Protective Cover 2	

Comet 550 Spread Beam distance. Recorded with single lamp. Distance in metres.



Jumbo 220 Series

Supplied with Protective Cover, Part No. 8124.





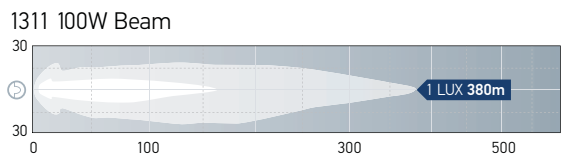


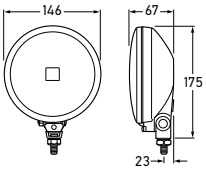
1 8124 Protective Cover

2 8139 Clear Protective Cover

1311	1FE 006 300-121 – **100W Driving Lamp - 12V** ADR	
Mounting	Upright or Pendant	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1311.01 Driving Lamp Insert 9.1311.07 Retaining Rim – black	
Accessories	8124 Protective Cover 1 8139 Clear Protective Cover 2	

1311 - 100W Beam distance. Recorded with single lamp. Distance in metres.





140 Series

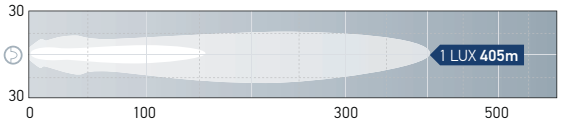
Kit including 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8130 and all parts required for installation.



5625/100	1F4 956 011-021 – 100W Driving Lamp Kit - 12V
Mounting	Upright
Voltage	12V (globe included)
Power Consumption	100W
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes
Spare Parts	9.1306.01 Driving Lamp Insert with globe holder 9.1306.09 Body Assembly 9.1345.08 Mounting Bracket Assembly
Accessories	8130 Clear Protective Cover ②

5625/100 Halogen 100W Beam distance. Recorded with single lamp. Distance in metres.

5625/100 Halogen 100W Beam

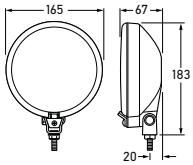




① 8130 Clear Protective Cover

160 Series

Supplied with Protective Cover, Part No. 8106. Kit includes 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8106 and all parts required for installation.

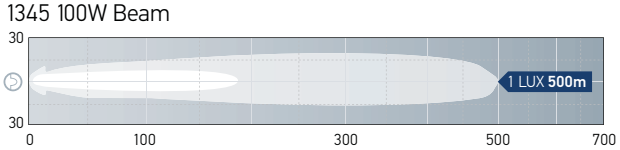


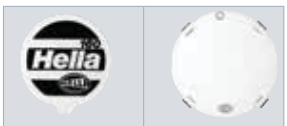


1345	1F4 905 057-001 – 100W Driving Lamp 12V
5623/100	1F6 954 982-021 – 100W Driving Lamp Kit - 12V
Mounting	Upright
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes
Spare Parts	9.1345.01 Driving Lamp insert 9.1345.08 Mounting Bracket Assembly 9.1345.09 Body Assembly
Accessories	8106 Protective Cover ① 8132 Clear Protective Cover ②

1345 Halogen 100W Beam distance. Recorded with single lamp. Distance in metres.

1345 100W Beam



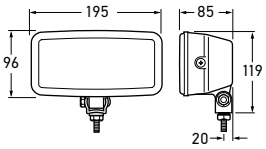


① 8106 Protective Cover

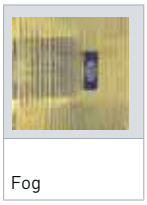
② 8132 Clear Protective Cover

181 Series

Supplied with Protective Cover.
Kit includes 2 x lamps, 2 x Protective Covers, Part No. 8116 and all parts required for installation.







Fog

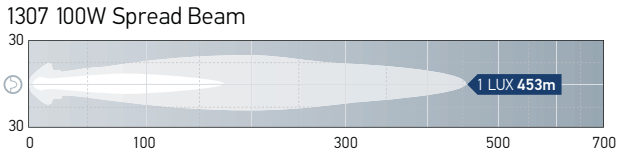


1 8116 Protective Cover

2 8133 Clear Protective Cover

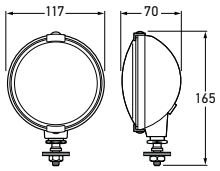
1307	1FD 905 054-001 – Driving Lamp 12V ADR	SPREAD BEAM
5633/100	1FD 910 338-001 – 100W Driving Lamp Kit - 12V ADR	SPREAD BEAM
1107	1ND 905 045-001 – Fog Lamp - Amber Optic - 12V ADR	FOG BEAM
5632	1ND 905 378-001 – Fog Lamp Kit - Amber Optic - 12V ADR	FOG BEAM
Mounting	Upright or Pendant	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1307.01 Driving Lamp Insert 9.1107.01 Fog Lamp Insert 9.1307.09 Body Assembly 9.1308.08 Mounting Bracket Assembly	
Accessories	8116 Protective Cover 1 8133 Clear Protective Cover 2	

1307 100W Spread Beam distance. Recorded with single lamp. Distance in metres.



Sealed Pencil Beam Driving Lamps - 114mm

Kit includes 2 x lamps,
All parts required for installation.





1300	1F1 905 049-001 – Sealed Driving Lamp - 114mm - 12V	PENCIL BEAM
5620	1F1 905 406-001 – Sealed Driving Lamp Kit - 114mm - 12V	PENCIL BEAM
Mounting	Upright or Pendant	
Voltage	12V (Sealed Beam included)	
Power Consumption	100W	
Spare Part	9.1300.08 Mounting Bolt Assembly	
Spare Part	1089 Sealed Beam	

Wiring Harnesses
Universal Driving Lamp Wiring Kit

Complete Quick-Fit Wiring Harness for Driving Lamps, easy to install with no modification necessary to existing vehicle wiring. Supplied with detailed instructions.

5223	8KB 905 401-001 – Universal Driving Lamp Wiring Kit - Pre-wired - 12V DC
Content	1 x H4 Headlamp adaptor plug 1 x Heavy-duty 5mm battery supply to relay with 4mm power supply and chassis earth to both lamps 1 x Inline fuse holder with 20A Blade fuse 1 x Duckbill switch and connectors 1 x Diode protected 40A relay in heavy-duty connector



Actual product may vary slightly from representative image

Wiring Harnesses Universal Auxiliary Wiring Kit - 12V DC

Universal Wiring Kit supplied with all parts required for installation and detailed instructions.

5224	8KB 905 404-001 – Universal Auxiliary Wiring Kit - 12V DC
Content	1 x 30A Relay 1 x On/Off Duckbill toggle switch 1 x 4.6m Length of 4mm cable 1 x 2m Length of 3mm cable



LED Single Bar Wiring Kit - 12V DC

LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.

5222	8KB 227 670-001 – Wiring Kit - 12V DC Connects Single Light Bar only
Content	1 x 12V DC Relay 1 x Blade fuse holder with 15A Fuse 1 x Pre-terminated loom and additional terminals for LED Bar connection * Connects one Light Bar only



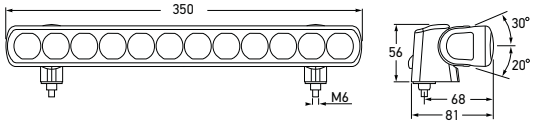
LED Light Bar 350
- Plastic Bracket

The innovative HELLA LED Light Bar 350 is the first such lamp with a lightweight body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LEDs and a maximum luminous intensity of 145,000 candela with a power consumption of only 25W.

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20) and Pencil Beam (Ref 30).

The hermetically sealed and submersible Light Bar features a Multivolt™ circuit for optimum brightness at input voltages from 9V to 33V, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.





Warranty 5YR WARRANTY
Housing CORROSION PROOF
Power Supply MULTI VOLT
Certified ECE CERTIFIED
Compliance ADR COMPLIANCE

1395	1FJ 958 040-021 **(ECE Ref. 20)**	**HIGH BEAM**
1396	1FJ 958 040-061 **(ECE Ref. 30)**	**PENCIL BEAM**
Mounting	Upright or pendant	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	25W	
Maximum Luminous Intensity	1395: 96,000 candela 1396: 145,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable	
Compliance	E4 2909 R10/04 1395: E24 0008 R112/01 Ref. 20 1396: E24 0009 R112/01 Ref. 30	
Contents	1 x LED Light Bar 350 2 x Plastic mounting brackets 1 x Instruction booklet	



Mounting brackets allow rotation of driving light.



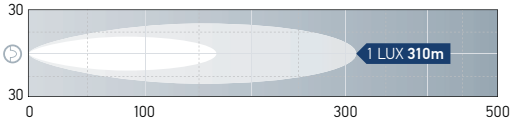
Mounting brackets can be positioned to suit most vehicle installations.



Plastic single mounting bracket - Disassembled view

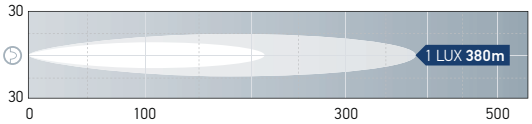
1395 - High Beam distance. Recorded with single lamp. Distance in metres.

LED Driving Light Bar High Beam



1396 - Pencil Beam distance. Recorded with single lamp. Distance in metres.

LED Driving Light Bar Pencil Beam



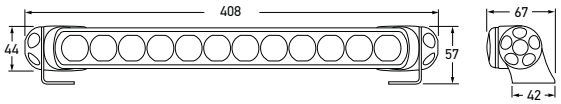
LED Light Bar 350 - HD Bracket

This innovative HELLA LED Light Bar 350 is the first such lamp with a lightweight body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LEDs and a maximum luminous intensity of 145,000 candela with a mere power consumption of only 25W.

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20) and Pencil Beam (Ref 30).

The hermetically sealed and submersible Light Bar features a Multivolt™ circuit for optimum brightness at input voltages from 9V to 33V, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.

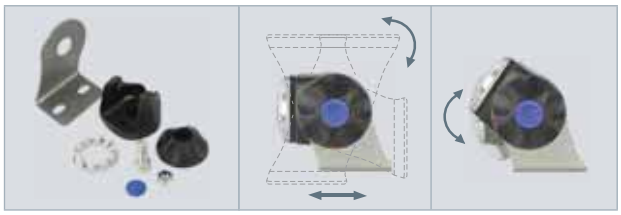
Warranty 5YR WARRANTY | Compliance ADR COMPLIANCE | Certified ECE CERTIFIED | Power Supply MULTI VOLT | Housing CORROSION PROOF



1395HD	1FJ 958 040-031 **(ECE Ref. 20)**	**HIGH BEAM**
1396HD	1FJ 958 040-041 **(ECE Ref. 30)**	**PENCIL BEAM**
Mounting	Upright or pendant	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	25W	
Maximum Luminous Intensity	1395HD: 96,000 candela 1396HD: 145,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable	
Compliance	E4 2909 R10/04 1395HD: E24 0008 R112/01 Ref. 20 1396HD: E24 0009 R112/01 Ref. 30	
Contents	1 x LED Light Bar 350	2 x HD mounting brackets 1 x Instruction booklet



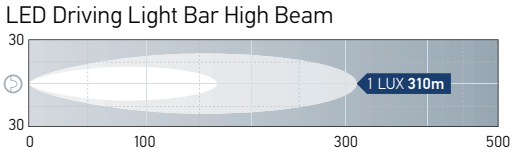
The heavy duty HD brackets are made of stainless steel, ultra durable and corrosion resistant. The perfect choice for on or off road applications.



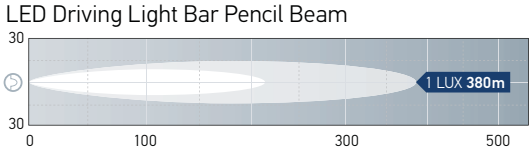
HD single mounting bracket - Disassembled view

Mounting brackets can be positioned to suit most vehicle installations.

1395HD - High Beam distance. Recorded with single lamp. Distance in metres.



1396HD - Pencil Beam distance. Recorded with single lamp. Distance in metres.



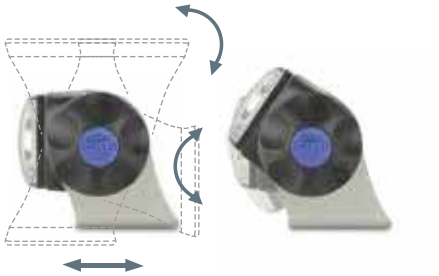
LED Light Bar 470 HD Bracket

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref. 25 with 1 lux at approx. 330 metres) and Pencil Beam (Ref. 37.5 with 1 lux at approx. 410 metres). Weighing only 950g the Light Bar is particularly popular for roof mount applications on ATV's and off-road vehicles.

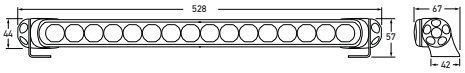
The non corrosive, thermally conductive housing is highly resistant to degradation and due to its slim profile, this streamline Light Bar is ideal for applications where aerodynamic styling is a valued attribute. The flexible, adjustable mounting system ensures easy installation. The Light Bar features a Multivolt™ circuit for optimum brightness at a wide range of input voltages from 9V to 33V and is fully road legal with ECE approval.



1397HD
LED Light Bar 470 - High Beam

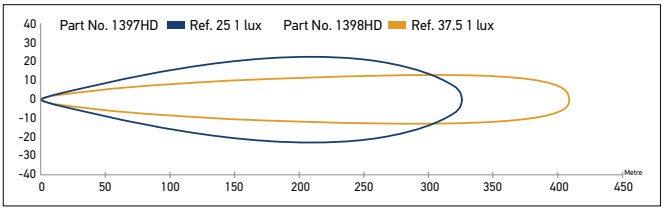


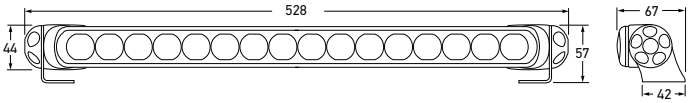
Mounting brackets can be positioned to suit most vehicle installations.



FIT & FORGET BY DESIGN · Certified ECE CERTIFIED · Power Supply MULTI VOLT · Housing CORROSION PROOF · Bracket STAINLESS STEEL · Harsh UV UV RESISTANT · Compliance ADR COMPLIANCE

1397HD	**1FJ 958 130-121 (ECE Ref. 25)**	**HIGH BEAM**
1398HD	**1FJ 958 130-021 (ECE Ref. 37.5)**	**PENCIL BEAM**
Mounting	Upright or pendant	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	35W	
Maximum Luminous Intensity	1397HD: 113,000 candela 1398HD: 166,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Compliance	E24 1947 R10/05	
	1397HD E24 0012 R112/01 Ref. 25	
	1398HD E24 0013 R112/01 Ref. 37.5	
Contents	1 x LED Light Bar 470 2 x HD mounting brackets 1 x Instruction booklet	





Power Supply MULTI VOLT | Lens Material GMD | Bracket STAINLESS STEEL | Housing CORROSION PROOF

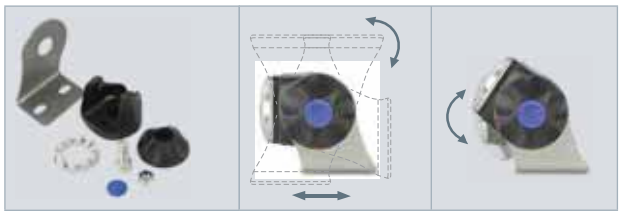
LED Light Bar 470 - Combi Lamp HD Bracket

The LED Light Bar 470 Combi is a unique work lamp offering three light options: close range, long range or combined - all in a single light bar. The lamp is a great addition to any ute, ATV or off-road vehicle.

Only 1kg of weight means less stress on mounting locations and the low profile design will not restrict cooling airflow when fitted to the front of a vehicle - which can be a problem with larger lights. Don't be fooled by its size though, this light bar certainly punches above its weight with its long distance and spread light output. Multivolt™ circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W. Any input between 9V to 33V will give optimum brightness.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens. The Combi Lamp is the natural choice when exceptional durability and long term reliability in demanding environments is needed.

1599HD	1GJ 958 130-431 – (Close Range and Long Range)	COMBI
Mounting	Upright or pendant	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	Combined: 36W Close/Long Range: 18W	
Maximum Luminous Intensity	77,000 candela	
Max. Light Output	2200 lumens	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Accessories	8032 Number plate bracket light bar 470 - Single Lamp 8033 Number plate bracket light bar 470 - Twin lamp 8HG 958 128-811 HD double mount stainless steel feet (one pair) 8HG 958 139-071 HD single spare end bracket kit 8XS 958 337-021 LED Light Bar - Clear protective cover 8XS 958 337-031 LED Light Bar - Amber protective cover 8XS 958 337-111 LED Light Bar - Protective cover	
Compliance		
Contents	1 x LED Light Bar 470	2 x HD mounting brackets 1 x Instruction booklet



HD single mounting bracket - Disassembled view

Mounting brackets can be positioned to suit most vehicle installations.

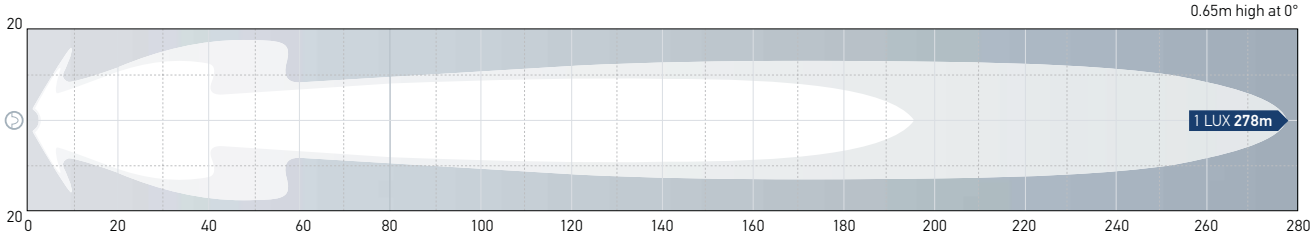



Close Range

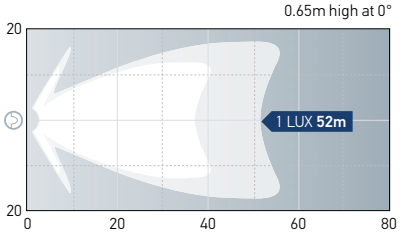

Long Range


Combined

Combi Light Bar 470 - Combined (Close Range and Long Range)

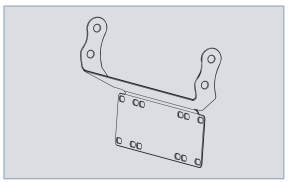


Combi Light Bar 470 - Close Range





8032
Number plate bracket light bar 470 - Mounted upright or pendant (Depending on your vehicle)



033 Twin Lamp
Number plate bracket light bar 470 - Mounted upright or pendant (Depending on your vehicle)

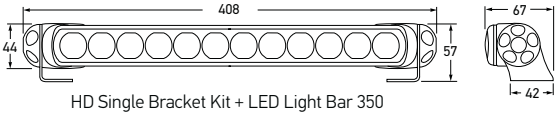


Mounted on vehicle

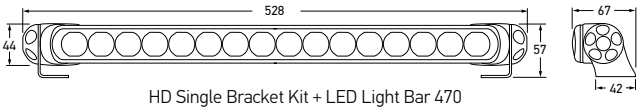
LED Light Bar
- HD Single Bracket Kit

These easy to install heavy bracket kits made to suit the LED Light Bar range and can be mounted upright or pendant to accommodate most vehicle installations. The smooth brackets simply clip onto the ends of the Light Bar. The nuts, bolts and mounting brackets are made from marine grade 316 stainless steel and come with anti-theft screw caps.





HD Single Bracket Kit + LED Light Bar 350



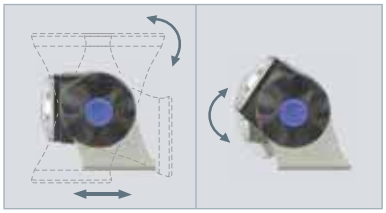
HD Single Bracket Kit + LED Light Bar 470

8HG 958 139-841

Kit Contents: (Lamp not included)	2 x Stainless Steel Mounting Feet 2 x Stainless Steel M8 x 20mm Cap Screws 2 x Stainless Steel M8 Nylon Lock Nuts 2 x End Adaptors	2 x Friction Washers 2 x End Clamps 2 x Screw Caps

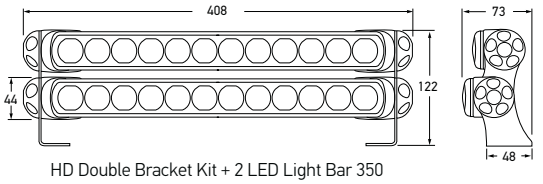


HD Single Bracket Kit + LED Light Bar 350

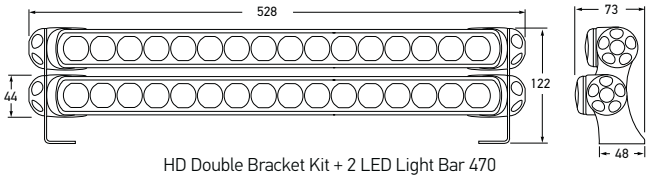


Mounting brackets can be positioned to suit most vehicle installations.

LED Light Bar
- HD Double Bracket Kit



HD Double Bracket Kit + 2 LED Light Bar 350



HD Double Bracket Kit + 2 LED Light Bar 470

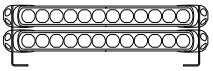
8HG 958 139-851

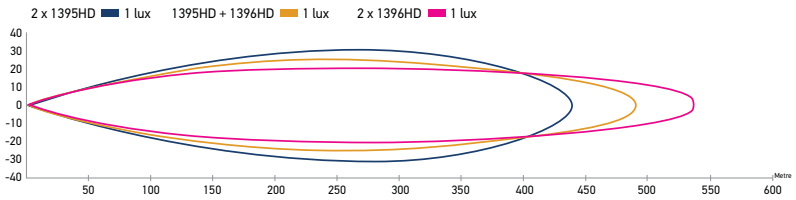
Kit Contents:
(Lamps not included)

- 2 x Stainless Steel Double Mounting Feet
- 4 x Stainless Steel M8 x 20mm Cap Screws
- 4 x Stainless Steel M8 Nylon Lock Nuts
- 4 x End Adaptors
- 4 x Friction Washers
- 4 x End Clamps
- 4 x Screw Caps

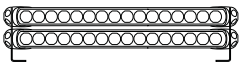
Beam Patterns - Beam distance (m)

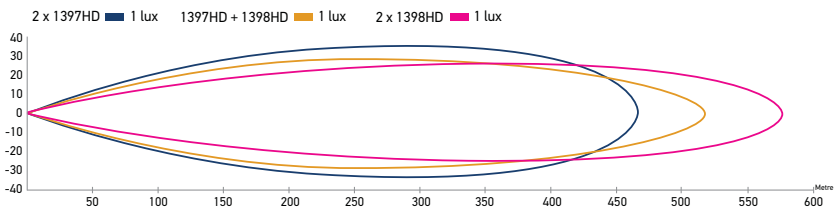
LED LIGHT BAR 350





LED LIGHT BAR 470

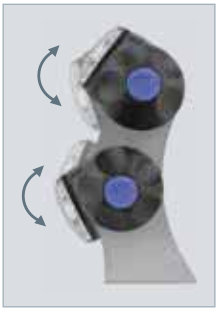








HD Double Bracket Kit + 2 x LED Light Bar 350



Mounting brackets allow rotation of Light Bar.

Double stainless steel mounting feet



8HG 958 128-811 - Suits 350 and 470 LED Light Bars	
Includes	Double Stainless Steel Mounting Feet (one pair) to suit LED Light Bar

Single Spare bracket Kit



958 139-071
Single spare bracket for one end (no mounting feet)

8HG 958 139-071	
Kit Includes:	1 x Stainless Steel M8 x 20mm Cap Screw 1 x Stainless Steel M8 Nylon Lock Nut 1 x End Adaptor 1 x Friction Washer 1 x End Clamp 1 x Screw Cap

LED Light Bar Protective Covers

Whether you want to protect your Light Bar or make your vehicle look unique, we have the Protective Covers you need for the job.

The amber and black covers give your vehicle a distinctive appearance that's sure to get attention and the amber cover is great during foggy conditions as it reduces glare and reflection.

8XS 958 336-021 - LED Light Bar 350 Range	CLEAR
8XS 958 336-031 - LED Light Bar 350 Range	AMBER
8XS 958 336-111- LED Light Bar 350 Range	BLACK
8XS 958 337-021 - LED Light Bar 470 Range	CLEAR
8XS 958 337-031 - LED Light Bar 470 Range	AMBER
8XS 958 337-111 - LED Light Bar 470 Range	BLACK

Clear

Amber



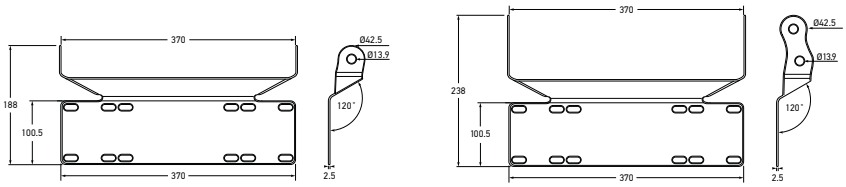
Black Protective Covers on 470 and 350 Range lamps



LED Light Bar Number Plate Brackets

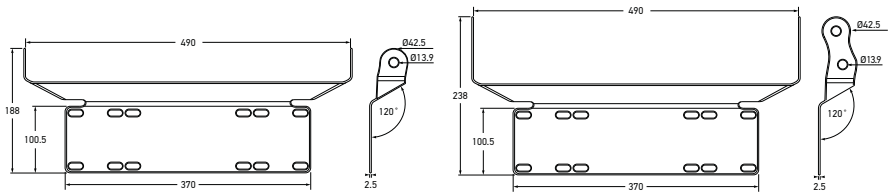
The sleek and clean Number Plate Bracket has been designed for quick and easy installation.

Depending on your vehicle the Light Bar can be mounted upright or pendant.



NUMBER PLATE BRACKET LIGHT BAR 350	
8030	8HG 014 075-011 – **Single Mount**
8031	8HG 014 075-021 – **Twin Mount**

To suit the LED Light Bar 350 Work Lamp Range.
Suits standard Australian, New Zealand and European number plates.



NUMBER PLATE BRACKET LIGHT BAR 470	
8032	8HG 014 075-031 – **Single Mount**
8033	8HG 014 075-041 – **Twin Mount**

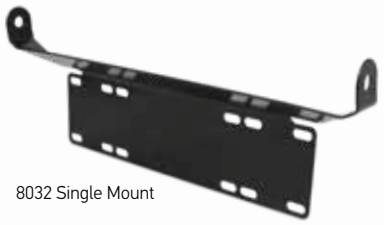
To suit the LED Light Bar 470 Work Lamp Range.
Suits standard Australian, New Zealand and European number plates.



8030 Single Mount



8031 Twin Mount



8032 Single Mount



8033 Twin Mount

Work Lamps

Effective and efficient mobile lighting
can increase productivity and staff safety.





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LED Work Lamps.....151-181

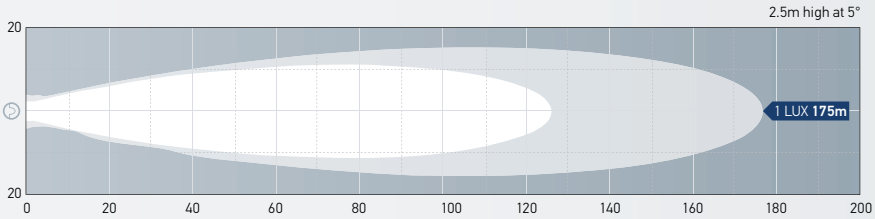
Spare Parts and Accessories 191

ILLUMINATION COMPARISONS

Work lamps can be compared by using an informative isolux lighting diagram. These diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity). To compare isolux diagrams, various criteria such as installation height, inclination angle and lux scale must be taken into account. An objective comparison is inaccurate if the criteria differ from one another. Comparing diagrams with different colour scales can be easily misinterpreted.

Long Range

Narrow beam range designed to illuminate distant objects between 60m to 200m (depending on lamp installation, installation height and inclination angle).

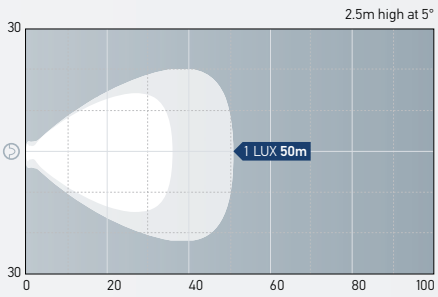


Isolux Lighting Diagram

Isolux diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity).

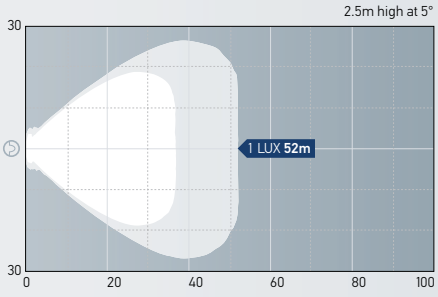
Close Range

Spread beam designed to illuminate an area near the vehicle, range approx. 20m to 60m (depending on installation height and inclination angle).

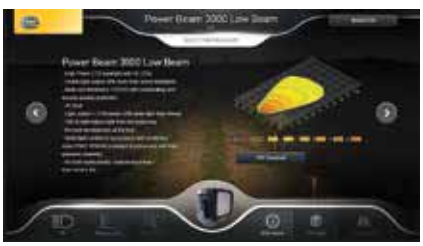


Flood

Ultra-wide spread beam designed to illuminate a large area adjacent to the vehicle, typically emitting an extra wide beam (over 45° each side).







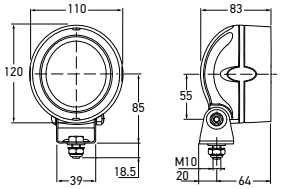
ELIVER

The Light Comparison Tool for Work Lamps

The ELIVER tool allows you to easily test and compare our products against each other in a realistic environment. This lets you find the perfect work lights or auxiliary lights for your individual requirements. You can conveniently compare different technologies, such as halogen, Xenon and LED against each other. You can view the light distribution on a farm track, on a street or under off-road conditions.

ELIVER also provides you with all the relevant information about performance and technical specifications. This includes information such as the light range, width and intensity. As a special service, you can call up the respective light range diagram or download brief information about the product as a PDF at any time.

Visit hella.com/eliver and try it yourself.



All dimensions in mm.

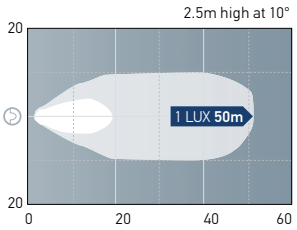
Close Range Mega Beam Gen. III LED Work Lamp

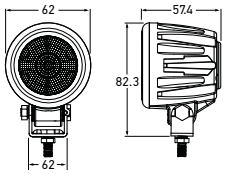
Mega Beam Gen. III LED Multivolt Work Lamps feature **4 high performance white LEDs (6500K)** providing consistent close range illumination with 12 or 24V DC systems. High-sheen metallised Free-Form (FF) reflector and clear glass lens. Housed in an impact-resistant aluminium die-cast and UV plastic housing, fully sealed for an ultra long service life in demanding high vibration environments.



1539LED	1GM 996 136-312	CLOSE RANGE
Mounting	Upright, Side or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	13W	
Max. Light Output	800 lumens	
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2 metres	
Housing	Aluminium	
Lens Material	Glass	
Compliance	E1 ECE-R10 CE	

1539LED – Close Range





All dimensions in mm.

Compact LED Work Lamp

The Compact LED Work Lamp is a light weight close range light designed for general illumination in areas where physical restraints in mounting locations exist.





1 9.1537.08

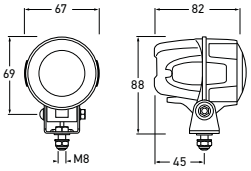
HM1590WB	1GA 910 060-021	CLOSE RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-64V DC	
Power Consumption	6W	
Max. Light Output	900 lumens	
Temperature Range	-40°C to +60°C	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS) Fully sealed against dust and moisture to IP6K7 and IP6K9K	
Housing	Aluminium	
Lens Material	Polycarbonate	
Accessory	9.1537.08 Universal Magnetic Mounting Bracket 1	
Compliance		

Module 50 LED Work Lamp

The smallest Work Lamp in the HELLA range. Powerful and ultra-compact, Module 50 LED is the perfect choice for limited space set ups. The **single multichip LED (6500K)** light output is **800 lumens** which is well suited to close-range illumination. A specially developed nylon (PA12) lens system concentrates the light and distributes it to the range of operation. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9V and 50V DC.







All dimensions in mm.



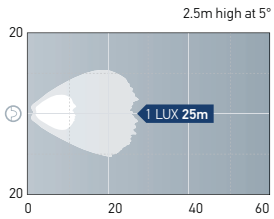
DT Socket

1560LED	1G0 995 050-001	CLOSE RANGE
1560LEDLR	1G0 995 050-021	LONG RANGE
Mounting	Stainless-steel bracket for Upright or Pendant mounting	
Voltage	Multivolt™ 9-50V DC * not suitable for 48V DC forklifts (max. vehicle system voltage 42V DC)	
Power Consumption	15W	
Max. Light Output	800 lumens	
Temperature Range	-40°C to +50°C	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mounting Bracket (1)
Compliance		

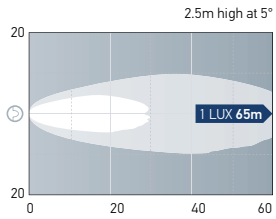


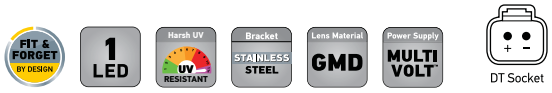
(1) 9.1517.08

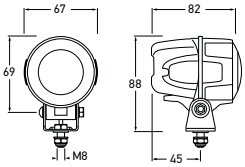
1560LED – Close Range



1560LEDLR – Long Range



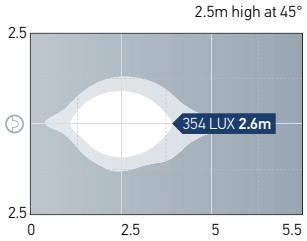




All dimensions in mm.

1G0 995 050-061	BLUE SPOT
Voltage	Multivolt™ 9 – 52 V DC (Suitable for 48V DC forklift operating systems)
Power consumption	15 W
Light source	1 Coloured (blue) High-Power LED
Housing material	Aluminium die cast
Mounting	Pendant and upright mounting
Connection	Integrated DT Socket. DT Pigtail Loom 2.0 metres to be ordered separately 9.1551LED.06 (optional)
Protection	Overheating and reverse polarity protection
Protection class	IP 6K9K, IP 6K8
Type approval	E1 ECE-R10
Housing	Aluminium
Lens	Nylon (PA12)
Weight	340 g

1G0 995 050-061







The Module 50 LED Blue Spot Headlamp

The Module 50 LED Blue Spot Headlamp is designed as a warning light to optically warn other vehicles or passers-by of an approaching forklift – increasing occupational safety and helping to prevent accidents.

The special lens optic focuses the **blue LED light beam** to project a circle-shaped warning point on the ground.





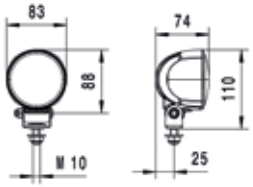
Module 70 Gen. IV LED Work Lamp

With **3 x high performance multichip LEDs**, the Module 70 Gen. IV LED Work Lamp is rated to **2500 lumens** while consuming just **30 watts**, with a colour temperature of **6500K**.

Multivolt™ compatible and can therefore be operated with a 12V or 24V DC power supply. Integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating when operating voltage fluctuates between 9V and 33V DC. In addition, temperature sensors protect the Work Lamp from overheating.



1567LED

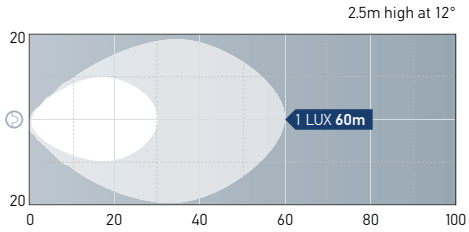


All dimensions in mm.

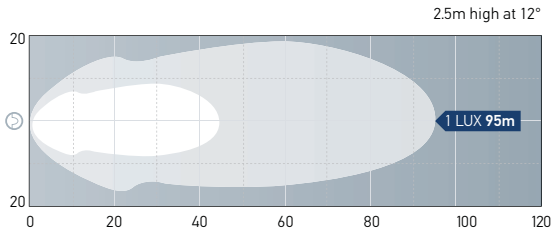
FIT & FORGET BY DESIGN · Harsh UV UV RESISTANT · Bracket STAINLESS STEEL · 3 LED · Power Supply MULTI VOLT

1567LED	1G0 996 476-001	**CLOSE RANGE**
1567LEDLR	1G0 996 476-011	**LONG RANGE**
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	30W	
Max. Light Output	2500 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	2 metres	
Protection	Reverse polarity and voltage spike protection IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8	
Housing	Aluminium	
Lens Material	Glass	
Compliance	E1 ECE-R10 CE	

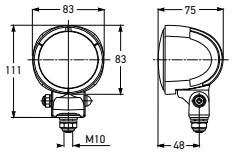
1567LED – Close Range



1567LEDLR – Long Range







All dimensions in mm.

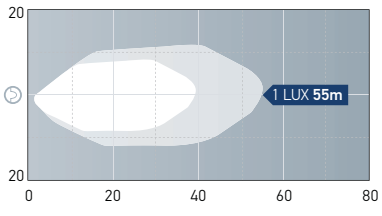
Close Range M70 Gen. III LED Work Lamp

The Module 70 Gen. III LED Work Lamp provides **800 lumens**. Equipped with **4 x high performance LEDs (6500K)**, high-sheen metallised Free-Form (FF) reflector and clear glass lens for consistent close-range illumination. Housed in an impact-resistant aluminium die-cast housing, fully sealed for an ultra-long service life in demanding high vibration environments.



1547LED	1G0 996 276-451	CLOSE RANGE
Mounting	Upright, Side or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	13W	
Max. Light Output	800 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	2 metres	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS) Fully sealed against dust and moisture to IP6K9K and IPX7	
Housing	Aluminium	
Lens Material	Glass	
Compliance	E1 ECE-R10 CE	
Accessories	HM70PR — Pipe Mount Tube Attachment (rotating) 1 9.1517.08 — Universal Pedestal Mounting Bracket 2	

1547LED – Close Range





1 HM70PR

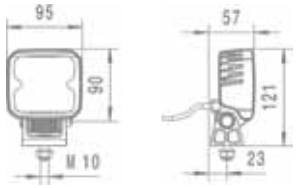
2 9.1517.08

RokLUME 155 TP LED Work Lamp

The RokLUME 155 TP LED is a robust Work Lamp in a universal, attractive design. The innovative **thermally conductive synthetic material housing** also features cooling fins which ensure the required heat dissipation from the **4 x high-power LEDs**.



1GA 996 284-051



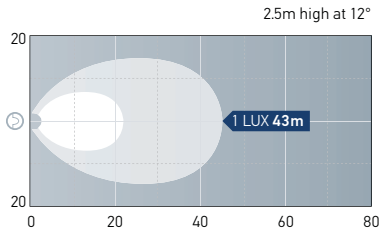


DT Socket

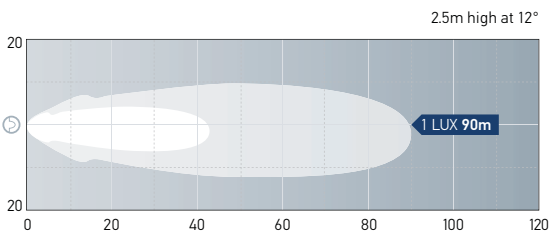
FIT & FORGET BY DESIGN · Harsh UV UV RESISTANT · 4 LED · Power Supply MULTI VOLT

1GA 996 284-051	CLOSE RANGE
1GA 996 284-061	**LONG RANGE**
Mounting	Upright or Pendant
Voltage	Multivolt™ 9-33V DC
Power Consumption	15W
Max. Light Output	1200 lumens
Temperature Range	-40°C to +50°C
Protection	Reverse polarity and voltage spike protection IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K7
Cable Length	200mm with DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)
Housing	Thermal Conductive Plastic
Lens Material	PC Polycarbonate
Compliance	E1 ECE-R10
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres

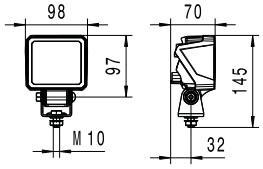
1GA 996 284-051 – Close Range



1GA 996 284-061 – Long Range







All dimensions in mm.

ECO18 LED Work Lamp

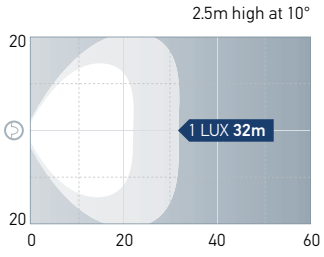
HELLA's ECO work lamps series lend themselves perfectly as an entry-level model into the world of the HELLA premium segment.

Thanks to its compact size and universal shape, the ECO series can replace virtually all the usual halogen lamps in a simple way.

The ECO18 LED work lamp boasts a lighting performance of **1350 lumens** while only consuming **18 watts** of power.

1GA 996 479-021	CLOSE RANGE
Mounting	Upright or Pendant 25° Tilt Angle
Voltage	Multivolt™ 10.5 – 32 V DC
Power Consumption	18 W
Light Output	1350 lumens
Colour Temperature	6500 Kelvin
Protection	IP 6K9K, IP 6K7
Connection	DT Connector
Housing	Aluminium Die Cast
Lens Material	PC Polycarbonate
Compliance	ECE-R10

1GA 996 479-021 – Close Range





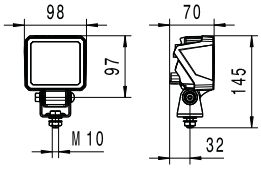
ECO26 LED Work Lamp

HELLA's ECO work lamps series lend themselves perfectly as an entry-level model into the world of the HELLA premium segment.

Thanks to its compact size and universal shape, the ECO series can replace virtually all the usual halogen lamps in a simple way.

The ECO26 LED work lamp boasts a fantastic lighting performance of **2000 lumens** while only consuming **26 watts** of power.





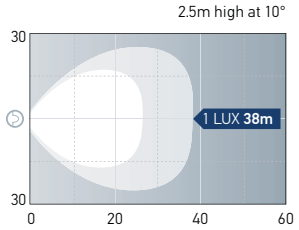
All dimensions in mm.

DT Socket

FIT & FORGET BY DESIGN · Harsh UV UV RESISTANT · 6 LED · Power Supply MULTI VOLT

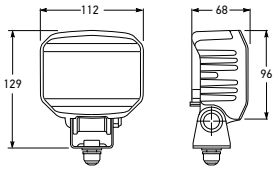
1GA 996 579-021	CLOSE RANGE
Mounting	Upright or Pendant 25° Tilt Angle
Voltage	Multivolt™ 10.5 – 32 V DC
Power Consumption	26 W
Light Output	2000 lumens
Colour Temperature	6500 Kelvin
Protection	IP 6K9K, IP 6K7
Connection	DT Connector
Housing	Aluminium Die Cast
Lens Material	PC Polycarbonate
Compliance	ECE-R10

1GA 996 579-021 – Close Range





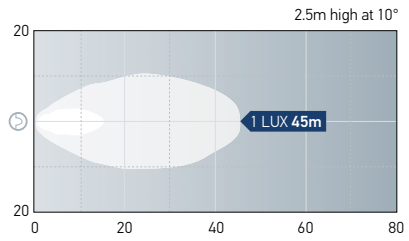
DT Socket



All dimensions in mm.

1551LED	1GA 996 188-001	**CLOSE RANGE**
1551LEDPMMA	1GA 996 188-021 – Nylon (PA12)	**CLOSE RANGE**
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	18W	
Max. Light Output	850 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Glass – 1551LED or Nylon (PA12) – 1551LEDPMMA	
Compliance	E1 CE	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessories	9.1517.08 9.1537.08	Universal Pedestal Mounting Bracket 1 Universal Magnetic Mounting Bracket 2

1551LED – Close Range



Power Beam 1000 LED Work Lamp

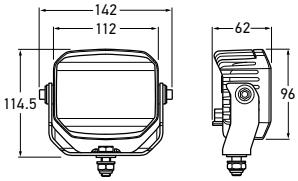
LED Work Lamp with **6 high performance LEDs (6500K)** for a powerful white light. Features robust aluminium die-cast housing, stainless steel bracket and Free-Form (FF) reflector with clear lens for consistent close range illumination. Integrated DT socket electrical connection.



Power Beam 1000 LED Work Lamp – Heavy Duty

LED Work Lamp with **6 high performance white LEDs (6500K)** for a powerful white light. Features robust aluminium die-cast housing, stainless steel heavy-duty bracket and Free-Form (FF) reflector with clear hardened glass lens for consistent close-range illumination. Integrated DT socket electrical connection.





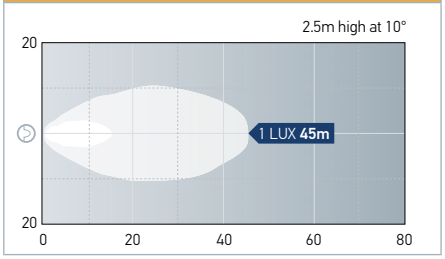
All dimensions in mm.



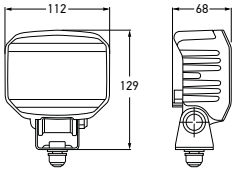
DT Socket

1551LEDHD	1GA 996 188-011	CLOSE RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	18W	
Max. Light Output	850 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Glass	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	
Compliance	E1 CE	

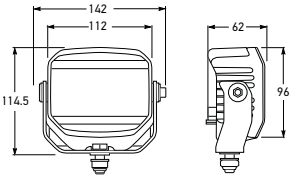
1551LEDHD – Close Range







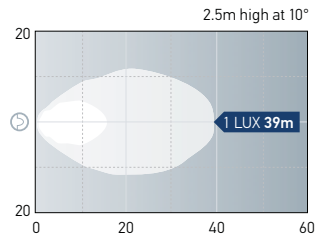
Standard Bracket. All dimensions in mm.



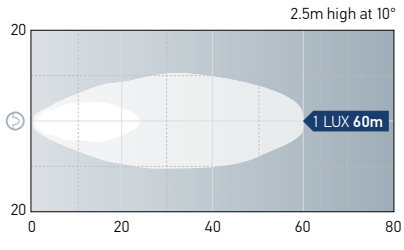
HD Bracket. All dimensions in mm.

1557LEDHD	1GA 996 288-031 – Heavy Duty Bracket	CLOSE RANGE
1557LED	1GA 996 288-011	CLOSE RANGE
1557LEDLR	1GA 996 288-001	LONG RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	22W	
Max. Light Output	1300 lumens	
Protection	Reverse polarity protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount (1)
Compliance		

1557LED – Close Range



1557LEDLR – Long Range



Power Beam 1500 LED Work Lamp

Premium LED Work Lamp with **6 x high performance LEDs (6500K)**. Aluminium housing. Light output rated at **1300 lumens**. nylon (PA12) lens.



1557LEDHD



1557LED

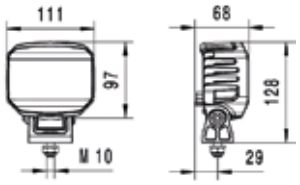


(1) 9.1517.08

RokLUME 190 TP Work Lamp

The compact RokLUME 190 TP is an ideal LED work lamp that combines a powerful light output with a practical design.





All dimensions in mm.



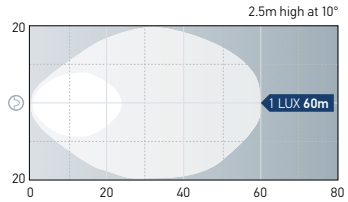
DT Socket

FIT & FORGET BY DESIGN

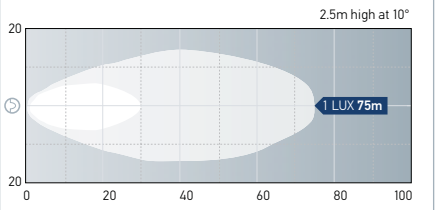
HD MOUNT | Harsh UV UV RESISTANT | Bracket STAINLESS STEEL | 6 LED | Lens Material GMD | Power Supply MULTI VOLT

1GA 996 488-501	**CLOSE RANGE**
1GA 996 488-511	**LONG RANGE**
Mounting	Upright or Pendant
Voltage	Multivolt™ 9-33V DC
Power Consumption	26W
Max. Light Output	1850 lumens
Colour Temp.	5000 K
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Integrated DT Socket. Includes DT Plug
Housing	Thermally Conductive Plastic
Lens Material	Nylon (PA12)
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres
Compliance	E1 CE

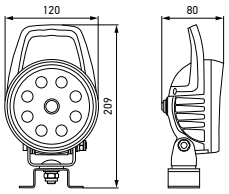
1GA 996 488-501 – Close Range



1GA 996 488-511 – Long Range







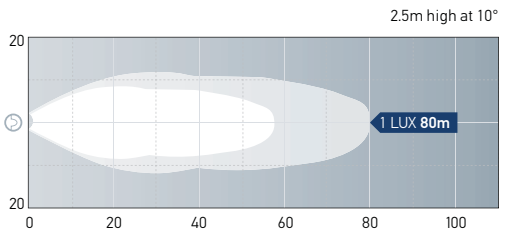
R120S LED Work Lamp

The R120S LED Work Lamp is designed with a moulded handle and swivel base mounting bracket, which enables the lamp to be rotated in almost any direction. It also has a convenient on off switch at the rear of the lamp.



1G2 996 220-001	CLOSE RANGE
Mounting	Swivel base mounting
Voltage	Multivolt™ 10-30V DC
Power Consumption	23W
Max. Light Output	1500 lumens
Colour Temp.	6500 K
Protection	Reverse polarity protection, overheating protection
Housing	Aluminium
Temperature range	- 40 °C to + 50 °C
Protection	IP 6K7, IP 6K9K
Compliance	ECE-R10

1G2 996 220-001



LED Ultra Beam Gen. II Work Lamps

Introducing the latest generation of the LED Ultra Beam range. The light-optimised Ultra Beam LED Gen. II has a much higher light output of **4400 lumens** and can replace Xenon Work Lamps.



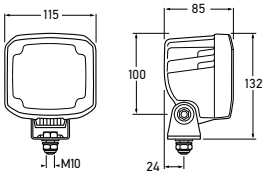
1566LED - Close Range



1566LEDLR - Long Range



1566LEDPB - Pencil Beam





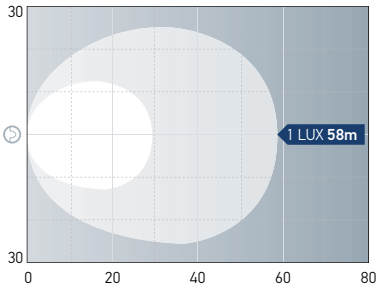
DT Socket



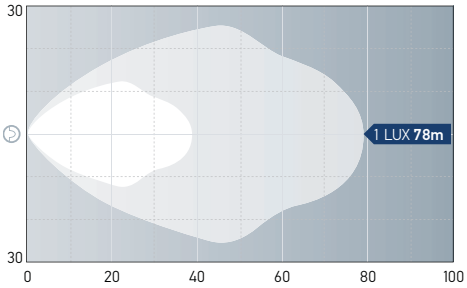
1566LED	1GA 995 606-001	**CLOSE RANGE**
1566LEDLR	1GA 995 606-011	**LONG RANGE**
1566LEDPB	1GA 995 606-021	**PENCIL BEAM**
Voltage	Multivolt™ 9 – 33 V DC	
Power consumption	50 W	
Light output	4400 lumens	
Light source	8 High-Power LEDs	
Colour temperature	6500 K	
Housing material	Aluminium die cast	
Lens material	Nylon (PA12)	
Connection	Integrated DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Mounting	Pendant and upright mounting	
Protection	Overheating and reverse polarity protection	
Protection class	IP 6K9K, IP 6K8	
Type approval	E1 ECE-R10	
Weight	1.040 g	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres

LED Ultra Beam Gen. II Work Lamps

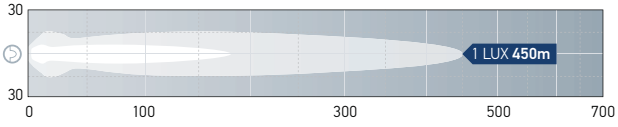
Close Range — 2.5m high at 12°



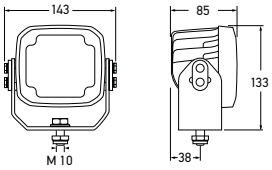
Long Range — 2.5m high at 5°



Pencil Beam







RokLUME 280 N LED Work Lamps

Compact size suitable for all mining machinery. Heavy duty bracket for high vibration requirements. **Corrosion resistant NanoSafe coating.**

1GA 995 606-541	**ZEROGLARE**
1GA 995 606-501	**CLOSE RANGE**
1GA 995 606-511	**LONG RANGE**
1GA 995 606-521	**PENCIL BEAM**
Mounting	Upright or Pendant. Heavy Duty bracket resists vibration
Voltage	Multivolt™ 9 – 32V DC
Power Consumption	Max. 56W
Max. Light Output	4400 lumens
Colour Temp.	5000 K
Protection	Reverse polarity protection. Transient spike circuit protection IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)
Housing	Aluminium die cast. NanoSafe non-stick / easy to clean surface coating
Lens Material	Nylon (PA12)
Cable Length	Integrated DT Socket
Compliance	E1 CE



1GA 995 606-541 ZEROGLARE



1GA 995 606-511 Long Range

LENS MATERIAL GRILAMID SWISS MADE

HELLA ZEROGLARE
Bringing Onroad Safety to Mining

The innovative **ZERO**GLARE optical system ensures all emitted light is only directed below the horizontal plane where it is needed and not into oncoming operators' field of vision.
Visit **hellazeroglare.com** for more information.



Sharp cut off beam for reduced glare. Excellent for use in foggy or dusty conditions.

Scan code for video on ZEROGLARE:





RokLUME 380 N LED Work Lamps

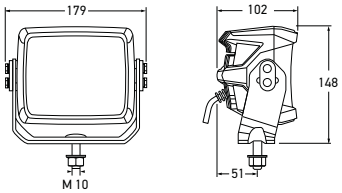
Developed specifically for mining applications. Heavy duty bracket resists against vibration. Light distribution optimised for mining machinery. Light output (measured): up to **7800 lumens**.

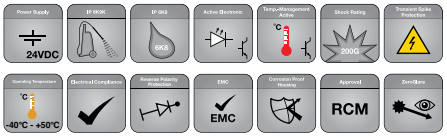


1GA 996 197-001 ZEROGLARE



1GA 996 197-041 Pencil Beam





1GA 996 197-001	**ZEROGLARE**
1GA 996 197-011	**CLOSE RANGE**
1GA 996 197-021	**LONG RANGE**
1GA 996 197-031	**FLOOD OPTIC**
1GA 996 197-041	**PENCIL BEAM**

Mounting	Upright or Pendant. Heavy Duty bracket resists vibration
Voltage	24V DC
Power Consumption	Max. 84W
Max. Light Output	7800 lumens
Colour Temp.	5000 K
Protection	Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)
Housing	Aluminium
Lens Material	Hard-coated PC
Cable Length	Integrated DT Socket
Compliance	E1 CE CISPR 25 Class 5
Accessory	9.1551LED.06 DT Pigtail Loom, 2 metres

HELLA **ZERO**GLARE
Bringing Onroad Safety to Mining

The innovative **ZERO**GLARE optical system ensures all emitted light is only directed below the horizontal plane where it is needed and not into oncoming operators' field of vision.
Visit **hellazeroglare.com** for more information.



Sharp cut off beam for reduced glare. Excellent for use in foggy or dusty conditions.

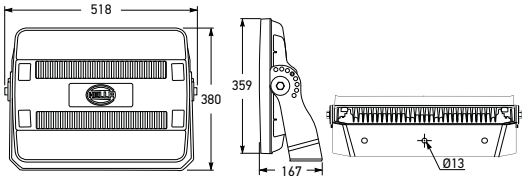
Scan code for video on ZEROGLARE:





Dimmable: Internal Dimmer

RF CommSafe | Bracket STAINLESS STEEL | HD MOUNT | Lens Material GMD



HypaLUME 48V DC RFCommSafe™ LED Flood Light - Heavy Duty

The HypaLUME 48V DC RFCommSafe™ has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **28000 lumens** whilst only consuming **300W**.

The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness. The LED driver electronics ensure light output remains stable over a wide range of voltage variations. The built-in soft start feature eliminates a high in-rush current at start up. HypaLUME **48V DC** is designed to RFCommSafe™, ultra-low emission (EMC) requirements surpassing international standards by a wide margin.

1GJ 011 872-221	**CLOSE RANGE**
1GJ 011 872-231	**LONG RANGE**
1GJ 011 872-241	**EXTRA WIDE**
Mounting	Upright or Pendant
Voltage	Optimum brightness at input voltages from 46 to 53 volts
Power Consumption	300W max. (6.25 @ 48V DC)
Actual Light Output	28000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	Reverse polarity, transient spike and over voltage protection IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning) Advanced thermal management
Soft Start (PIN 3)	Reduces start-up inrush ramp-up (100% brightness in 4 seconds)
Connection	4 Pin Deutsch plug
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Accessory	8KB 958 304-001 1m of sheathed cable - 4 Pin Deutsch plug
Compliance	CE FC



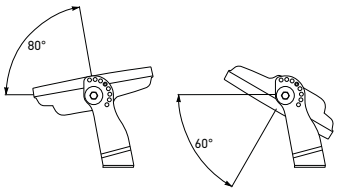
Front view | Side view | Rear view | Locking mechanism



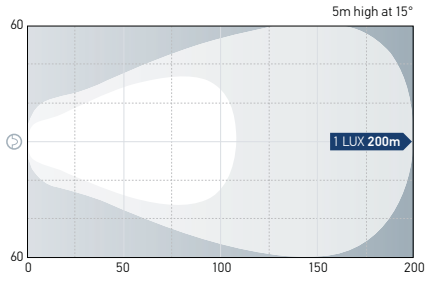


Accessory Cable - 8KB 958 304-001

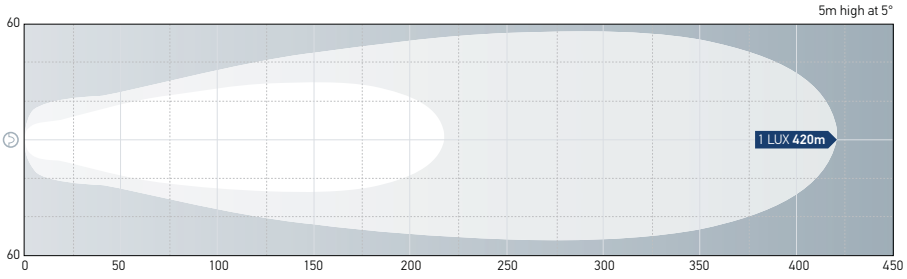
Lamp can be rotated 140°



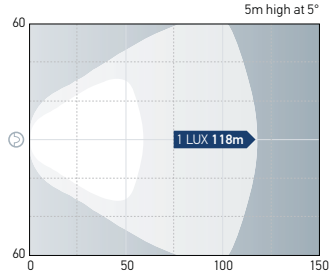
HypaLUME 48V DC - Close Range



HypaLUME 48V DC - Long Range



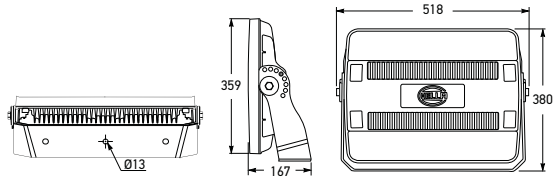
HypaLUME 48V DC - Extra Wide



HypaLUME 24/48V DC LED Flood Light - Heavy Duty

The HypaLUME 24/48V DC has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **25000 lumens** whilst consuming less than **260W**. Comprehensive sealing and anti-corrosion measures have been taken to ensure this lamp withstands the toughest conditions. The premium aluminium housing is corrosion resistant with a non-stick and easy to clean surface coating. The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness. The LED driver electronics ensure light output remains stable over a wide range of voltage variations. The HypaLUME is also protected from reverse polarity and short circuit faults.

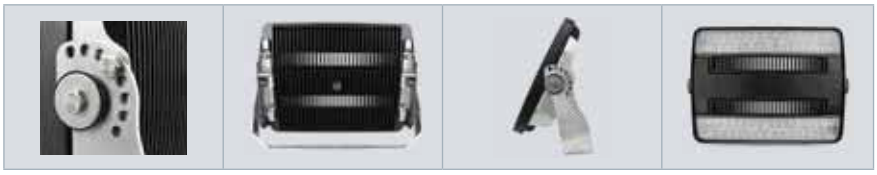




Lens Material GMD | HD MOUNT | Bracket STAINLESS STEEL

HMF2000CMOB	1GJ 011 872-501	CLOSE RANGE	WHITE
HMF2000LMOB	1GJ 011 872-511	LONG RANGE	WHITE
HMF2000WMOB	1GJ 011 872-521	EXTRA WIDE	WHITE
1GJ 011 872-601		CLOSE RANGE	AMBER
1GJ 011 872-611		LONG RANGE	AMBER
1GJ 011 872-621		EXTRA WIDE	AMBER

Mounting	Upright or Pendant
Voltage	Optimum brightness at input voltages from 22 to 52 volts
Power Consumption	260W max. (10A @ 24V DC)
Actual Light Output	25000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	Reverse polarity, transient spike and over voltage protection IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning) Advanced thermal management
Cable Length	Supplied with 1.8m of easy plug-in sheathed cable
Connection	4 Pin Deutsch plug
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Compliance	CE FC ISO 13766 CISPR25

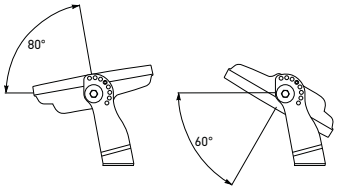


Locking mechanism | Rear view | Side view | Front View

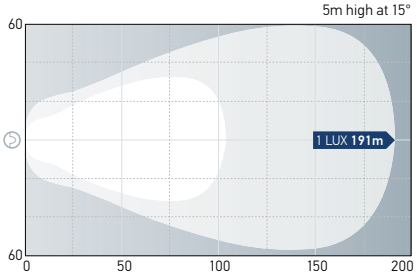


1.8m Fly Lead is Included

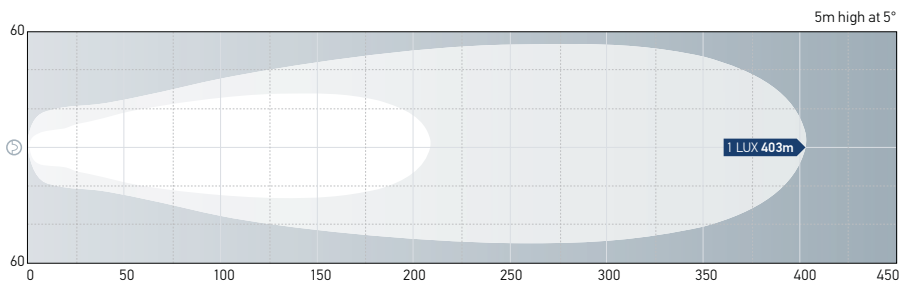
Lamp can be rotated 140°



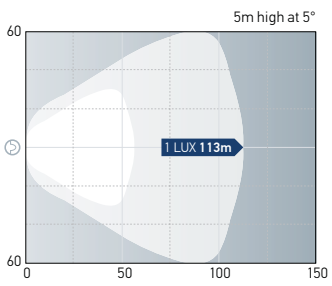
HypaLUME 24/48V DC - Close Range



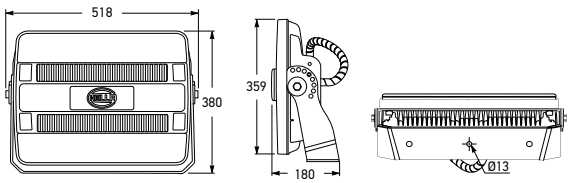
HypaLUME 24/48V DC - Long Range



HypaLUME 24/48V DC - Extra Wide







HypaLUME 110/230V AC LED Flood Light - Heavy Duty

The HypaLUME 110/230V AC has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **28000 lumens** at a voltage input range of **100-240V AC** whilst only consuming **300W**. Comprehensive sealing and anti-corrosion measures have been taken to ensure this lamp withstands the toughest conditions. The premium aluminium housing is corrosion resistant with a non-stick and easy to clean surface coating. The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness.

1GJ 958 334-011	CLOSE RANGE	WHITE
1GJ 958 334-021	LONG RANGE	WHITE
1GJ 958 334-031	EXTRA WIDE	WHITE
1GJ 958 334-111	CLOSE RANGE	AMBER
1GJ 958 334-121	LONG RANGE	AMBER
1GJ 958 334-131	EXTRA WIDE	AMBER

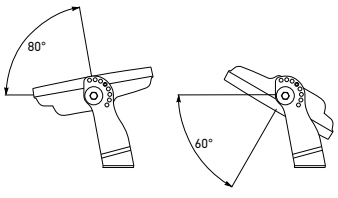
Mounting	Upright or Pendant
Voltage	Optimum brightness at input voltages from 100 to 240V AC
Power Consumption	300W max.
Actual Light Output	28000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	IP 66 (Protection against dust and high-pressure water jets) IP 67 (Protection against dust and temporary water immersion) Advanced thermal management
Cable Length	Supplied with 2.0m of easy plug-in sheathed cable
Connection	Wieland RST Mini - 16A
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Compliance	AS/NZS 60598.2.5 CE FC



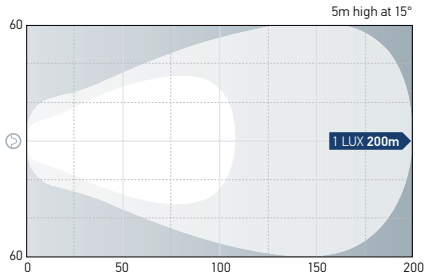
Front view | Side view | Rear view | Locking mechanism



Lamp can be rotated 140°



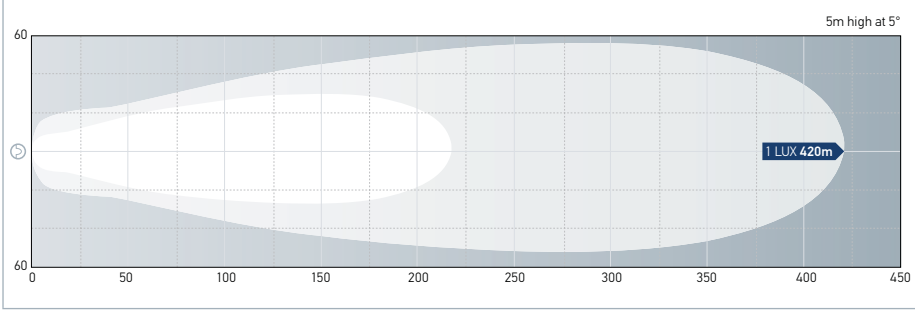
HypaLUME 110/130V AC - Close Range



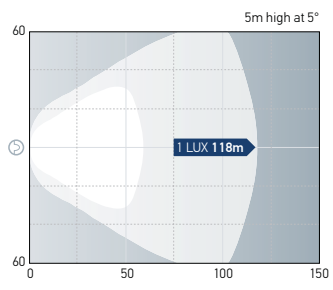


Supplied with 2.0m of easy plug-in sheathed cable.

HypaLUME 110/130V AC - Long Range



HypaLUME 110/130V AC - Extra Wide



Oval 100 LED Thermo Pro Work Lamps

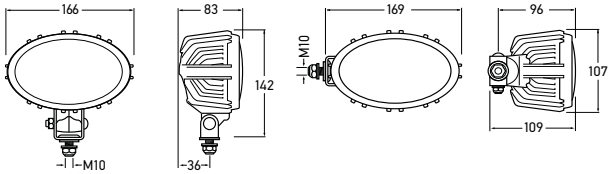
The HELLA Oval 100 LED Thermo Pro is the latest addition to the Oval 100 Work Lamp family. This Work Lamp has an innovative corrosion resistant **thermally conductive plastic housing** with cooling fins on the back to ensure sufficient heat dissipation from the **8 x high-power LEDs**. Available with an upright mounting swivel base and a side mounting swivel base.



1568LED - Upright or Pendant, Swivel Base

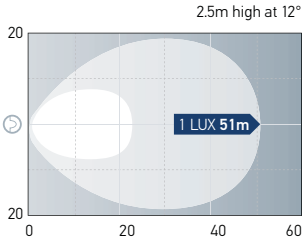


1568LED-SM - Side Mount , Swivel Base

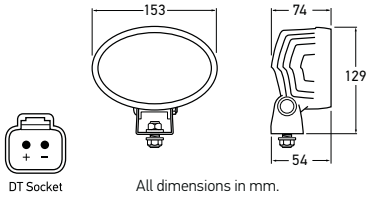


1568LED	**1GA 996 661-501 – Upright or Pendant, Swivel Base**
1568LED-SM	**1GA 996 661-031 – Side Mount , Swivel Base**
Voltage	Multivolt™ 9 – 33 V DC
Power consumption	25 W
Light output	1700 lumens
Light source	8 High-Power LEDs
Colour temperature	6500 K
Housing material	Thermally conductive plastic
Lens Material	Polycarbonate
Mounting	Upright and side mounting
Connection	Integrated DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)
Protection	Overheating and polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	E1 ECE-R10
Weight	660 g
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres

Oval 100 LED Thermo Pro Work Lamps



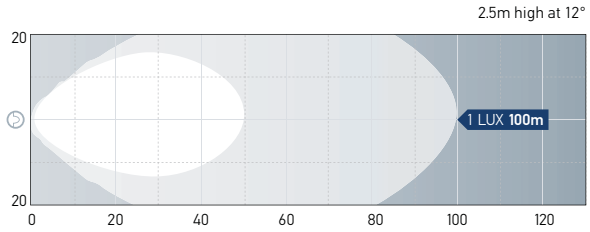




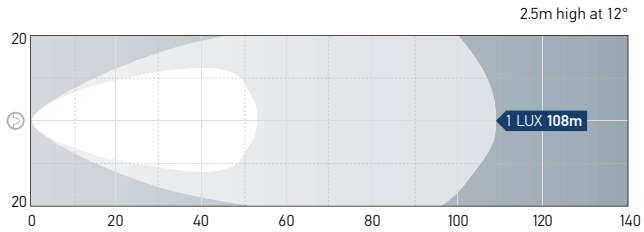
All dimensions in mm.

1558LED	1GA 996 761-001	CLOSE RANGE
1558LEDLR	1GA 996 761-011	LONG RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	56W (12V DC) 54W (24V DC)	
Max. Light Output	4000 lumens	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection	
Cable Length	Integrated DT Socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount (1)
Compliance		

1558LED – Close Range



1558LEDLR – Long Range



Oval 100 LED Gen. II Work Lamps

High quality aluminium housing and nylon (PA12) lens. Features **8 x high power LEDs (6500K)** providing **4000 lumens**.



1558LED

LENS MATERIAL GRILAMID SWISS MADE



1558LEDLR

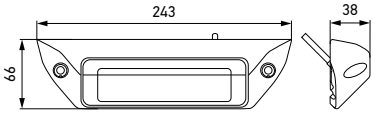


(1) 9.1517.08

FMS Base

HELLA FMS Base is a flat and compact LED work lamp with a practical design and a light output of **1200 lumens**. The slim build is a perfect fit for applications in tight spaces and integrates perfectly with the appearance of the whole vehicle.

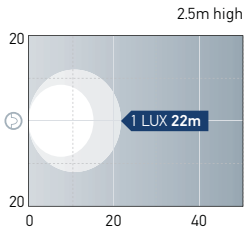




FIT & FORGET BY DESIGN · Harsh UV UV RESISTANT · Bracket STAINLESS STEEL · 4 LED · Power Supply MULTI VOLT

1GB 996 098-001	
Voltage	Multivolt™ 9 – 32 V DC
Power consumption	14 W
Light output	1200 lumens
Light source	LED
Colour temperature	6500 K
Housing material	Die-cast aluminium, CoroSafe coating
Mounting	Flat surface mounting on the vehicle wall
Connection	500 mm cable
Protection	Overheating and reverse polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	E1 ECE-R10, ADR / GGVSEB
Weight	600 g

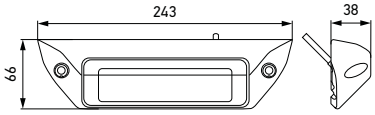
1GB 996 098-001



FMS Prime

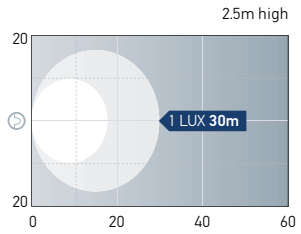
HELLA FMS Prime is a flat and compact LED work lamp with a practical design and a light output of **2500 lumens**. The slim build is a perfect fit for applications in tight spaces and integrates perfectly with the appearance of the whole vehicle.





1GB 996 098-011	
Voltage	Multivolt™ 9 – 32 V DC
Power consumption	28 W
Light output	2500 lumens
Light source	LED
Colour temperature	6500 K
Housing material	Die-cast aluminium, CoroSafe coating
Mounting	Flat surface mounting on the vehicle wall
Connection	500 mm cable
Protection	Overheating and reverse polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	E1 ECE-R10, ADR / GGVSEB
Weight	600 g

1GB 996 098-011





BL 470 Red LED Warning Lamp

BL470 Red LED warning lamp is fitted with the VISIOTECH technology. A special lens optic allows the light to converge and become so sharply focused that a strip-shaped warning line is projected onto the ground to create a no-go zone.





All dimensions in mm.



2XD 958 130-661	SPOT BEAM
Lens	Grilamid Nylon PA12
Current Consumption	Multivolt™ 9-33 V DC
Power Consumption	36W Max
Protection	Reverse polarity and transient spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Operating Temperature	-40°C to 60°C
Cable Length	Pre-wired with 2.5m of tinned multi-core cable
Accessories	8HG 958 128-811 Double stainless steel mounting feet (one pair)
EMC Interference Immunity	ECE-R10, CISPR 25 Class 5







BL350 LED Work Lamp

The BL350 LED Work Lamp incorporates the latest technology to offer a powerful, durable lighting solution for a multitude of applications.

Featuring energy efficient Multivolt™ technology, this Work Lamp will appeal to applications where energy efficiency and reliability are a must. These lamps offer a formidable net light output of **2200 lumens**.

Designed with Fit and Forget durability in mind, the BL350 LED Work Lamp features a highly impact-resistant lens made of nylon (PA12), a crystal clear polyamide with superior tolerance to chemical and long-term harsh UV exposure, as well as a technologically advanced thermally conductive non-metal housing.



1GJ 958 040-501



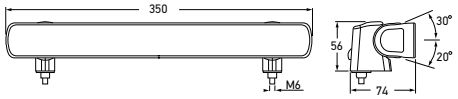
Rear View



Mounting brackets allow rotation of Work Lamp.



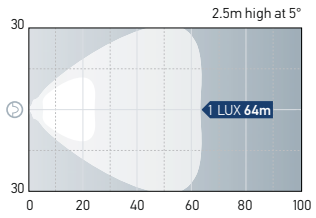
Dual Intensity: Switch Control | 12 LED | Fit & Forget by Design | Power Supply: Multi Volt | Housing: Corrosion Proof | Lens Material: GMD | Harsh UV: UV Resistant



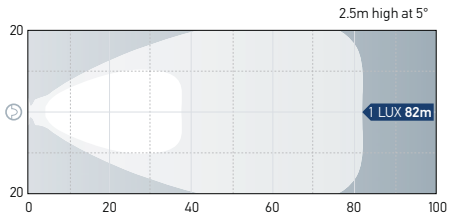
All dimensions in mm.

1GJ 958 040-501	**WIDE SPREAD**
1GJ 958 040-551	**SPREAD**
Mounting	Upright or Pendant
Voltage	Multivolt™ 9-33V DC
Power Consumption	25W
Max. Light Output	2200 lumens
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	BL350 2.5 metres of tinned multi-core cable
Housing	Thermally Conductive Plastic
Lens Material	Nylon (PA12)
Compliance	

1GJ 958 040-501 – Wide Spread



1GJ 958 040-551 – Spread

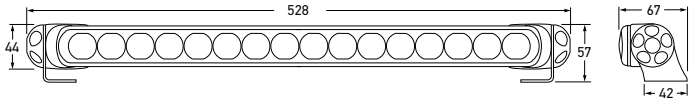


LED Light Bar 470
- Combi Lamp HD Bracket

The LED Light Bar 470 Combi is a unique work lamp offering three light options: close range, long range or combined - all in a single light bar. The lamp is a great addition to any Ute, ATV or off-road vehicle.

Only 1kg of weight means less stress on mounting locations, the low profile design will not restrict cooling airflow when fitted to the front of a vehicle - which can be a problem with larger lights. Don't be fooled by its size though, this light bar certainly punches above its weight with its long distance and spread light output. Multivolt™ circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W. Any input between 9 to 33 volts will give optimum brightness.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens. The Combi Lamp is the natural choice when exceptional durability and long term reliability in demanding environments is needed.

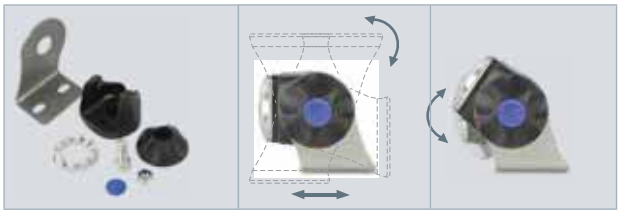


Power Supply MULTI VOLT™ | Lens Material GMD | Bracket STAINLESS STEEL | Housing CORROSION PROOF

1599HD	1GA 958 130-431 – (Close Range and Long Range)	COMBI
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	Combined: 36W Close/Long Range: 18W	
Maximum Luminous Intensity	77,000 candela	
Max. Light Output	2200 lumens	
Protection	Reverse polarity and transient spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Accessories	8032 Number plate bracket light bar 470 - Single Lamp 8033 Number plate bracket light bar 470 - Twin lamp 8HG 958 128-811 HD double mount stainless steel feet (one pair) 8HG 958 139-071 HD single spare end bracket kit 8XS 958 337-021 LED Light Bar - Clear protective cover 8XS 958 337-031 LED Light Bar - Amber protective cover 8XS 958 337-111 LED Light Bar - Protective cover	
Compliance		
Contents	1 x LED Light Bar 470	2 x HD mounting brackets 1 x Instruction booklet

LENS MATERIAL GRILAMID SWISS MADE





HD single mounting bracket - Disassembled view

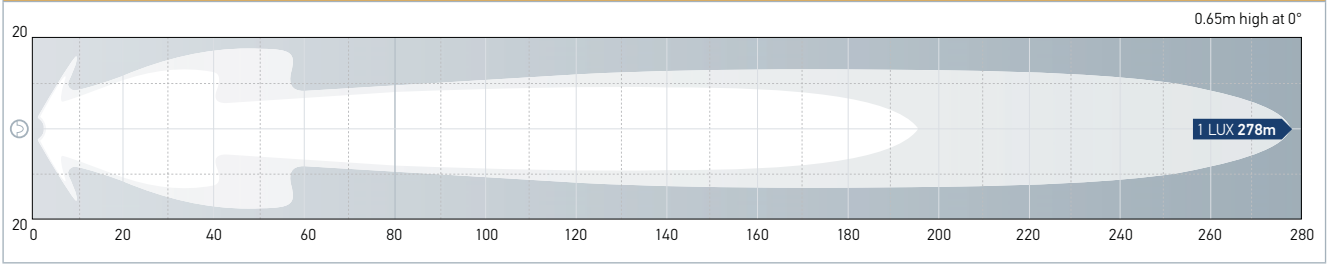
Mounting brackets can be positioned to suit most vehicle installations.


Close Range

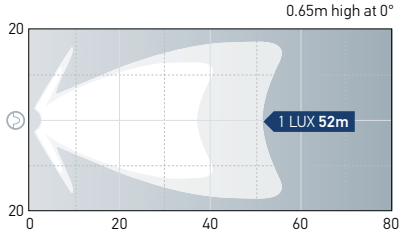

Long Range


Combined

Combi Light Bar 470 - Combined (Close Range and Long Range)



Combi Light Bar 470 - Close Range



Double Stainless Steel Mounting Feet



8HG 958 128-811 - Suits 350 and 470 LED Light Bars	
Includes	Double Stainless Steel Mounting Feet (One pair) to suit LED Light Bar

Single Spare Bracket Kit

8HG 958 139-071	
Kit Includes	1 x Stainless Steel M8 x 20mm Cap Screw 1 x Stainless Steel M8 Nylon Lock Nut 1 x End Adaptor 1 x Friction Washer 1 x End Clamp 1 x Screw Cap



8HG 958 139-071
Single spare bracket for one end (no mounting feet)

LED Bar Wiring Kit - 12V DC

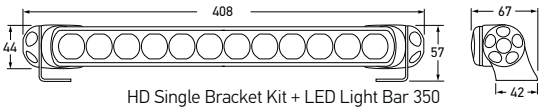
LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.

5222	8KB 227 670-001 - Wiring Kit - 12V DC Connects one Light Bar only
Content	1 x 12V DV Relay 1 x Blade fuse holder with 15A Fuse 1 x Pre-terminated loom and additional terminals for LED Bar connection * Connects one Light Bar only

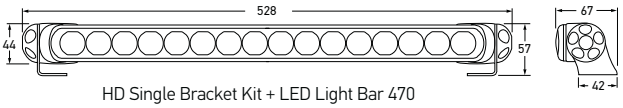


LED Light Bar
- HD Single Bracket Kit

These easy to install heavy bracket kits made to suit the LED Light Bar range and can be mounted upright or pendant to accommodate most vehicle installations. The smooth brackets simply clip onto the ends of the Light Bar. The nuts, bolts and mounting brackets are made from marine grade 316 stainless steel and come with anti-theft screw caps.



HD Single Bracket Kit + LED Light Bar 350

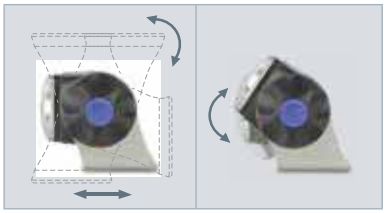


HD Single Bracket Kit + LED Light Bar 470

8HG 958 139-841

Kit Contents: (Lamp not included)	2 x Stainless Steel Mounting Feet 2 x Stainless Steel M8 x 20mm Cap Screws 2 x Stainless Steel M8 Nylon Lock Nuts 2 x End Adaptors	2 x Friction Washers 2 x End Clamps 2 x Screw Caps





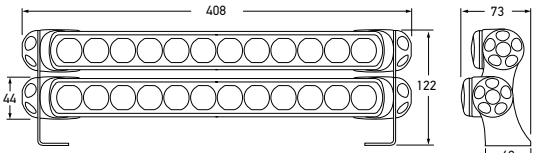
Mounting brackets can be positioned to suit most vehicle installations.



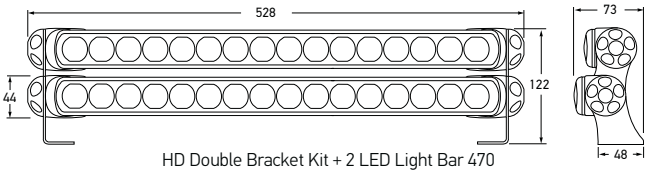
HD Single Bracket Kit + LED Light Bar 350

LED Light Bar
- HD Double Bracket Kit





HD Double Bracket Kit + 2 LED Light Bar 350



HD Double Bracket Kit + 2 LED Light Bar 470

8HG 958 139-851

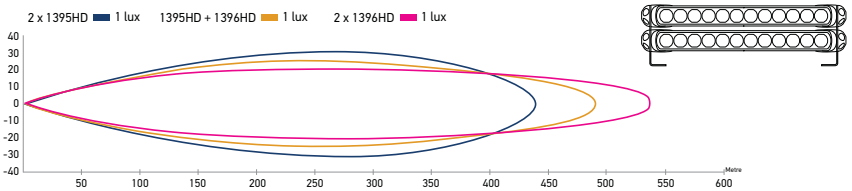
Kit Contents: (Lamps not included)	2 x Stainless Steel Double Mounting Feet 4 x Stainless Steel M8 x 20mm Cap Screws 4 x Stainless Steel M8 Nylon Lock Nuts 4 x End Adaptors	4 x Friction Washers 4 x End Clamps 4 x Screw Caps



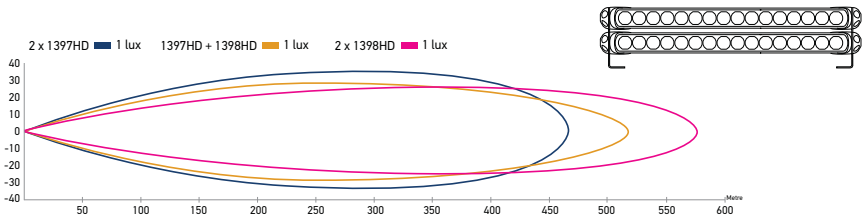
HD Double Bracket Kit + 2 x LED Light Bar 350

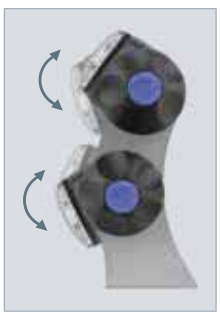
Beam Patterns - Beam distance (m)

LED LIGHT BAR 350



LED LIGHT BAR 470





Mounting brackets allow rotation of Light Bar.

DuraLED® WL200 Work Lamp

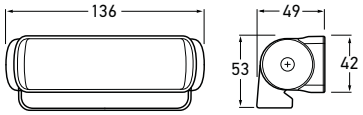
High-intensity LED Work Lamps suitable for interior or exterior general and work area lighting rated at **200 lumens**.

Features compact and lightweight design (only 250g including cable). Equipped with **ultra-durable nylon (PA12) lens** for extreme impact, UV, chemical and stress resistance, and a sturdy stainless-steel mounting bracket, which secures the lamp from both sides whilst allowing easy adjustment of the vertical light beam angle.





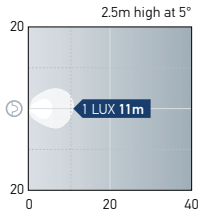




All dimensions in mm.

98067030	1GA 980 670-421	SPREAD
Mounting	Stainless-steel bracket for Upright or Pendant mounting	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	< 3W	
Max. Light Output	200 lumens	
Protection	Fully sealed against dust and moisture to IP67	
Cable Length	2.5 metres	
Lens Material	Nylon (PA12)	
Housing	Plastic	
Compliance		

98067030 – Spread



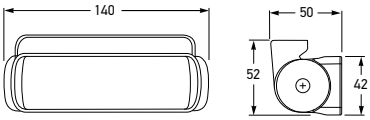
DuraLED® WL550 LED Work Lamp

LED Universal Work Lamps with low profile stainless steel bracket. Lamps may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, **chemical resistant nylon (PA12) lens**. Option of three light patterns, narrow, spread or wide spread.





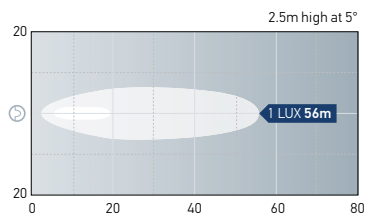




All dimensions in mm.

98057330	1GA 980 573-301	NARROW
Mounting	Upright or Pendant	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	7W	
Max. Light Output	550 lumens	
Protection	Reverse polarity and voltage spike protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Housing	Thermally Conductive Plastic	
Compliance		

WL550 – Narrow



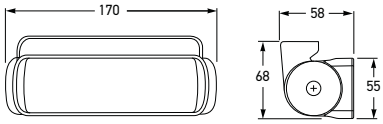
DuraLED® WL1300 LED Work Lamps – White

These lamps offer a formidable net light output of **1300 lumens**. Designed with Fit and Forget durability in mind, DuraLED® WL1300 features:

- Integrated dual intensity light output circuit;
- A high level of spike protection;
- **High impact-resistant nylon (PA12) lens** – a crystal clear polyamide with superior tolerance to chemical and UV exposure;
- Technologically advanced thermally conductive non-metal housing;
- Low profile stainless steel bracket for adjustable upright or pendant mounting.



98074002

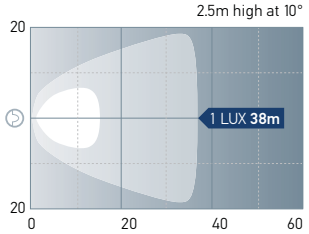


All dimensions in mm.

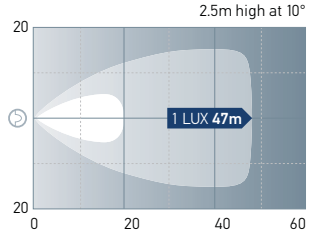
FIT & FORGET BY DESIGN | Power Supply: MULTI VOLT | 14 LED | Lens Material: GMD | Bracket: STAINLESS STEEL | Housing: CORROSION PROOF | Harsh UV: UV RESISTANT

98074002	1GD 980 740-021	WIDE SPREAD
98074032	1GD 980 740-321	SPREAD
Mounting	Stainless-steel bracket for Upright or Pendant mounting	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	High power 18W | Low power 2W	
Max. Light Output	1300 lumens	
Protection	Reverse polarity protection, surge protection, overheating protection IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Lens Material	Nylon (PA12)	
Housing	Thermally Conductive Plastic	
Compliance		

98074002 – Wide Spread



98074032 – Spread



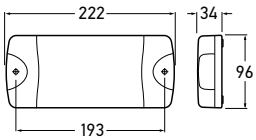
DuraLED® 1000 Spread Beam Work Lamp

The universal, high intensity and extremely energy efficient DuraLED® 1000 Spread Beam Work Lamp is rated at **1000 lumens**.

Magnets simply snap the light to any metallic surface and the lamp can be powered from cigarette lighter or DIN plug.

The lens is manufactured from ultra durable nylon (PA12), a revolutionary high performance clear polyamide for extreme impact, UV, chemical and stress resistance.





All dimensions in mm.

Warranty: 5YR WARRANTY | Power Supply: MULTI VOLT | Lens Material: GMD | Bracket: STAINLESS STEEL | Harsh UV: UV RESISTANT | FIT & FORGET BY DESIGN

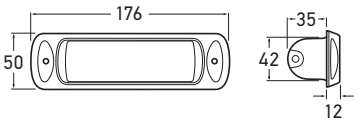
HM1550CIG	1GA 910 057-001	SPREAD BEAM
Mounting	Universal mounting via neodymium magnets	
Voltage	Multivolt™ 9-33V DC	
Power Consumption	< 12W	
Max. Light Output	1000 lumens	
Protection	IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	1 metre extension cable extends to 8 metres	
Lens Material	Nylon (PA12)	
Compliance		

SEAHAWK LED Work Lamps

A new class of ultra efficient, compact and lightweight LED lamps. Rated at **240 lumens**. **Suitable for recess mounting only.**



Warranty 5YR WARRANTY | Power Supply MULTI VOLT | 12 LED | Lens Material GMD | Bracket STAINLESS STEEL | Harsh UV UV RESISTANT | FIT & FORGET BY DESIGN

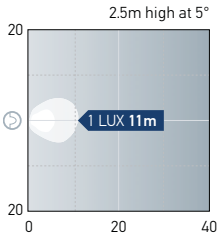


All dimensions in mm.

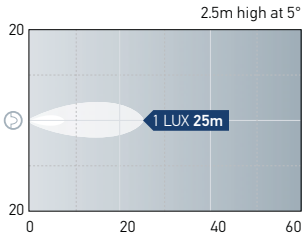
2LT 980 747-101	**SPREAD BEAM**	■ **BLACK**
2LT 980 747-111	**SPREAD BEAM**	**WHITE**
2LT 980 747-001	**SPOT BEAM**	■ **BLACK**
2LT 980 747-011	**SPOT BEAM**	**WHITE**

Mounting	Recess mounting
Voltage	Multivolt™ 9-33V DC
Power Consumption	< 3W
Max. Light Output	240 lumens
Protection	IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	2.5 metres
Lens Material	Nylon (PA12)
Housing	Plastic
Compliance	

2LT 980 747 101 / 2LT 980 747 111 – SPREAD



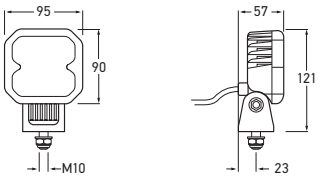
2LT 980 747 001 / 2LT 980 747 011 – SPOT



Q90 Compact LED Reversing Lamp ADR Compliant

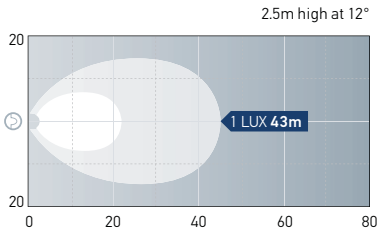
Combining a strong light output with practical design, the Q90 compact LED is the ideal LED reversing Spot Lamp. **Four high-power LEDs** produce a light output of **1200 lumens**, which a reflector directs homogeneously across a wide area behind the vehicle. This reversing lamp is ideally suitable for mounting to the rear of the vehicle so that it can be manoeuvred safely even at night.



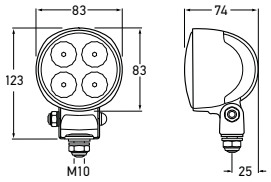


1563LED-RE	2ZR 996 284-501
Voltage	Multivolt™ 9-33V DC
Power Consumption	15 W
Max. Light Output	1200 lumens
Colour Temperature	6500 K
Temperature Range	-40°C to 60°C
Protection	Overheating and reverse polarity protection
Protection Class	IP6K7, IP6K9K
Lens	Polycarbonate
Housing	Thermally Conductive Plastic
Cable Length	2.0 Metres
Mounting	Pendant and upright mounting
Compliance	E1 ECE-R10, ECE-R23, E1 00 4576, ADR 1/00

1563LED-RE

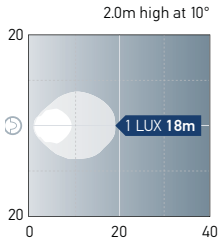






1547LED-RE	2ZR 996 376-091
Operating voltage	Multivolt™ 12/24V DC
Power consumption	13W
Light output	800 lumens
Illumination pattern	Extra wide beam
Light source	4 High Power LEDs
Protection class	IP 6K9K I IP67
Housing	Aluminium CoroSafe powder coated grey
Lens	Glass
Cable Length	2 Metres
Compliance	ECE R1 0, ECE R23, ADR 1/00

1547LED-RE



Module 70 LED Gen. Ill Reverse Lamp, ADR Compliant

The new Module 70 LED was developed especially for withstanding the tough conditions of a rear Driving Lamp. The low mounting position on rear bumpers requires a high water, salt spray and impact resistance.

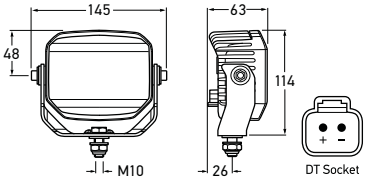




Power Beam 1000 Reversing Lamp, ADR Compliant

Combining a strong light output with practical design, the Power Beam 1000 is the ideal LED Reversing Spot Lamp. This lamp was designed with compact dimensions and a flexible surrounding bracket so that it could be used anywhere.

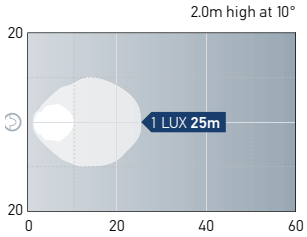


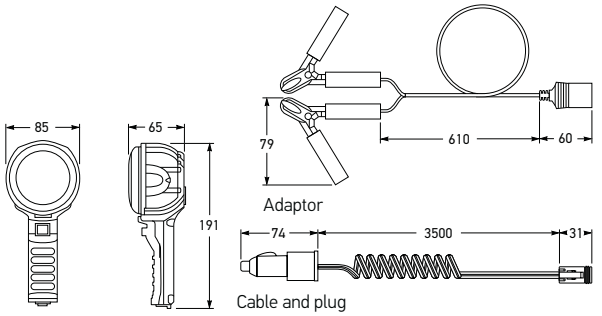


Compliance ADR COMPLIANCE | Power Supply MULTI VOLT | 6 LED | Bracket STAINLESS STEEL | Harsh UV UV RESISTANT | HD MOUNT | FIT & FORGET BY DESIGN

1551LED-RE	2ZR 996 188-121
Operating voltage/ Rated voltage	Multivolt™ 9-33V DC
Recommended angle of inclination	25°
Light source type	6 high-power LEDs
Power consumption	14 W
Light output	850 lm
Colour temperature	6500 K
Protection class	IP 6K9K and IP 6K8
Compliance	ECE-R10, ECE-R23, ADR 1/00
Housing	Aluminium, CoroSafe, powder-coated grey
Lens	Nylon
Cable Length	Integrated DT Socket (Optional 2 metre DT Pigtail Loom to be ordered separately)
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres

1551LED-RE





LED Hand Held Spot Lamps

The LED hand held spot lamp only uses 1/3 of the power consumption of the 1520. It has a compact size and light weight, and is comfortable to hold even for long periods. The LED Spot Lamp comes with a spiral plug-in cable (which can stretch up to 3.5m) and a DT connector, which allows a custom cable to be fitted to suit your own requirements.

1520LED	2XM 958 372-001	LONG RANGE
1521LED	2XM 958 373-001	MEDIUM RANGE
Voltage	10-16 V	
Power Consumption	35W	
Light Output	1350 lumens	
Compliance		



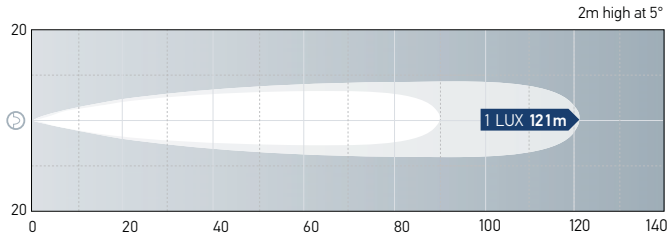


Battery clips to power socket adaptor (supplied)

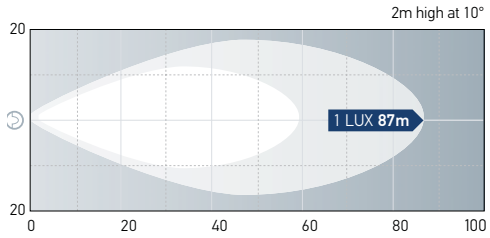
HELLA Bag (supplied)



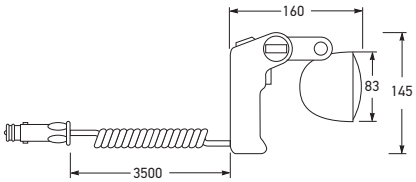
Long Range



Medium Range







Module 70 Gen. IV LED Hand Held Search Lamps

Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.

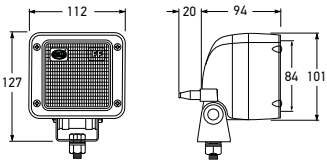
1H0 996 476-502		LONG RANGE
1H0 996 476-512		CLOSE RANGE
Voltage	Multivolt™ 12-24V DC	
Power Consumption	30W	
Light Output	2500 lumens	
Housing	Premium CoroSafe coating	
Cable	Spiral cable with cigarette lighter plug (extended length 3500mm)	
Protection	IP6K9K, IP6K8	
Compliance		



Ultra Beam Series – Close Range

Halogen Work Lamp with Free-Form (FF) reflector for uniform close or long range illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External AMP wiring connection.





All dimensions in mm.

AMP Plug

1533	1GA 007 506-001	CLOSE RANGE
Mounting	Upright, side or pendant mounting through swivelling the lamp unit 90°. U-shape four-point fixing bracket with M10 screw for mounting on horizontal and vertical surfaces	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 YC1255 (Globe ordered separately) 24V H3 YC2470 (Globe ordered separately)	
Protection	IP 6K4K (Protection against dust and water splash) IP X9K (Protection against high-pressure jets)	
Accessories	HM8158AMBER Amber Clear Protective Cover 1 9.6008.05 Rubber Boot for AMP Connection 2 9.6008.06 Wiring Loom for AMP Connection – 2 metres 3	
Not suitable for 100W globes.		



1 HM8158AMBER

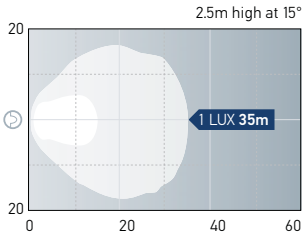


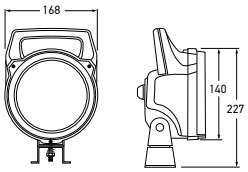
2 9.6008.05



3 9.6008.06

1533 – Close Range





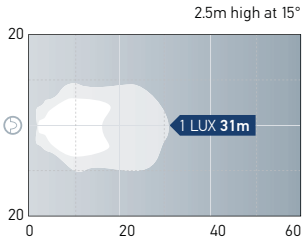
All dimensions in mm.

Matador Series

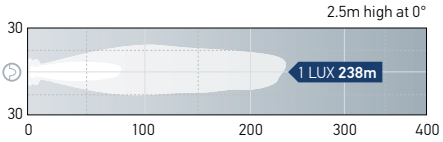
Work Lamp with handle and switch. Black fibre-glass reinforced plastic housing with extended edge to protect lens.

1511	1G4 905 107-001	**WIDE SPREAD**
1513	1G4 905 109-001	**COMBINATION RANGE – WIDE / LONG**
Mounting	Full swivel four-point fixing bracket for mounting on flat or slightly curved surfaces	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) (Globe to be ordered separately) 24V H3 (YC2470) (Globe to be ordered separately)	
Protection	IP 5K4K (Protection against dust and water splash)	
Spare Parts	9.1511.01 9.1511.06 9.1513.01	Close range insert On-off rotary switch Combination range insert
Accessory	9.1511.07	Protective Grille
Not suitable for 100W globes.		

1511 – Wide Spread



1513 – Combination Range – Wide / Long

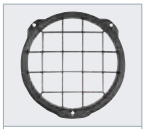




1511



1513

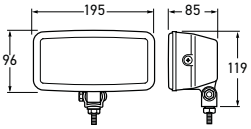


9.1511.07

Flood Lamp – Close Range, 12V

Close range illumination.



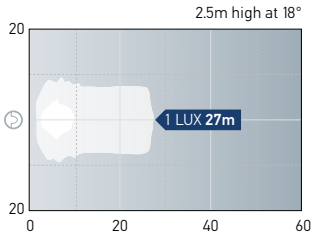


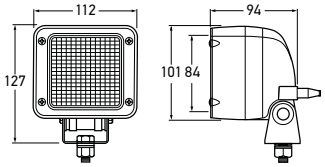
All dimensions in mm.

Globe Included 12V GLOBE INC

1516	1GD 910 301-001	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright mounting	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Spare Parts	9.1307.09 Body Assembly 9.1308.08 Mounting Bracket Assembly 9.1516.01 Insert	
Accessory	9.1517.08 Universal Pedestal Mounting Bracket	

1516 – Close Range





All dimensions in mm.



AMP Plug

1408	2ZR 997 506-402
Mounting	Bracket and single bolt with tilt adjustment for upright mounting Detailed mounting instructions included
Voltage	24 V Globe included
Power Consumption	12V – 55W 24V – 70W
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K
Spare Part	9.1408.01 FF Insert
Accessories	9.6008.05 Rubber Boot for AMP Connection 1 9.6008.06 Wiring Loom for AMP Connection – 2m 2
Compliance	ADR 1/100
Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.	

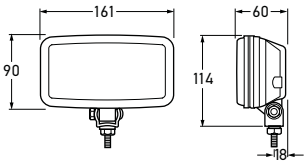
Ultra Beam Series Reversing Spot Lamp ADR Compliant

Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Equipped with die-cast aluminium Free-Form (FF) reflector and patterned glass lens for broad and uniform illumination. Sturdy design and shock-proof plastic housing for use under heavy duty conditions. Fully sealed to withstand high-pressure washing. AMP wiring connection.





1 9.6008.05 2 9.6008.06



All dimensions in mm.

1410	2ZR 005 860-153
Mounting	Bracket and single bolt with tilt adjustment for upright mounting Detailed mounting instructions included
Voltage	Globe to be ordered separately
Power Consumption	12V – 55W 24V – 70W
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K
Compliance	ADR 1/100
Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.	

Comet 450 Series Reversing Spot Lamp ADR Compliant

Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Shock-proof housing for use under heavy duty conditions.



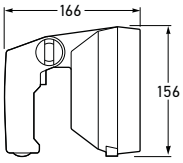
Halogen FF Twin Beam Hand-Held Search Lamp – 12V

Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.





1 9.2862.08

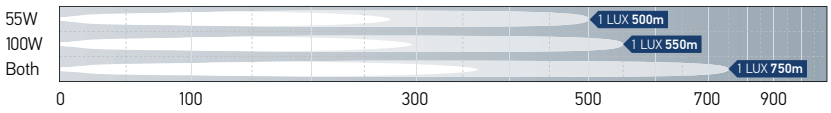


All dimensions in mm.

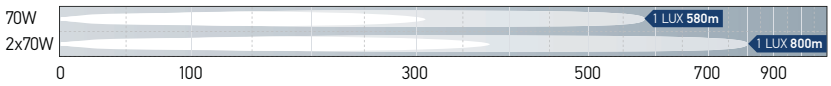
2862	1H3 998 502-001
Mounting	Suitable for mounting on flat surfaces in conjunction with mounting base Part No. 9.2862.08
Voltage	12V (globes included)
Power Consumption	1 x 55W 1 x 100W
Globe to suit	2 x 12V H3 (1 x YC1255, 1 x YC12100) 2 x 24V H3 (1 x YC2470, 1 x YC24100)
Protection	Sealed against dust and moisture to IPX6K
Spare Parts	9.2862.01 Insert 9.2862.03 Plug Assembly
Accessory	9.2862.08 Mounting Base (optional) 1

2862

12V Beam Distances



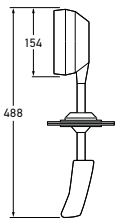
24V Beam Distances



Halogen FF Twin Beam Search Lamp – Manual Control 12V

Compact Search Lamp for installation into vehicle roof. Twin Free-Form (FF) reflector system and handgrip with integrated on/off switch. 360° horizontal rotation and 30° vertical tilt.



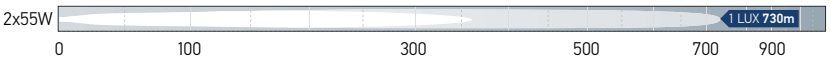


All dimensions in mm.

2863	1H3 998 502-021
Voltage	12V (globes included)
Power Consumption	2 x 55W
Globe to suit	2 x 12V H3 (YC1255) 2 x 24V H3 (YC2470)
Protection	Sealed against dust and moisture to IPX6K
Spare Parts	9.2862.01 Insert

2863

12V Beam Distance



2 Pole Switch Plug and Socket (300mm)



8KA 958 360-001	
Cable Size	1.5mm² Cable

2 Pole Y-Splitter Joint Plug and Socket (300mm)



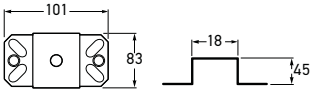
8KA 958 361-001	
Cable Size	1.5mm² Cable

2 Pole DT Extension Plug and Socket (2.5m)



8KA 958 363-001	
Cable Size	1.5mm² Cable

Pedestal Mounting Bracket – Universal



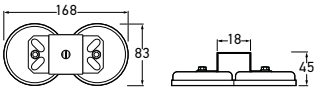
All dimensions in mm.

Universal stainless-steel Pedestal Bracket for four-point mounting. Suitable for use with all of HELLA Work Lamps.



9.1517.08	9XD 130 261-001
Mounting	10mm dia. mounting hole

Magnetic Mounting Bracket – Universal



All dimensions in mm.

Universal Magnetic Mounting Bracket suitable for use with all HELLA Work Lamps. Consists of 2 magnets and fittings.



9.1537.08	8HG 004 806-001
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of lamps with a magnetic base cannot be recommended for use on moving vehicles.

Emergency Lighting and Signal Warning Lamps

A comprehensive range of products that meet the requirements of a modern Emergency Response Fleet.





Contents

Emergency Lighting and Signal Warning Lamps

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IP Ratings - Signal Warning Lamps 195

LED Warning Beacons 196-207

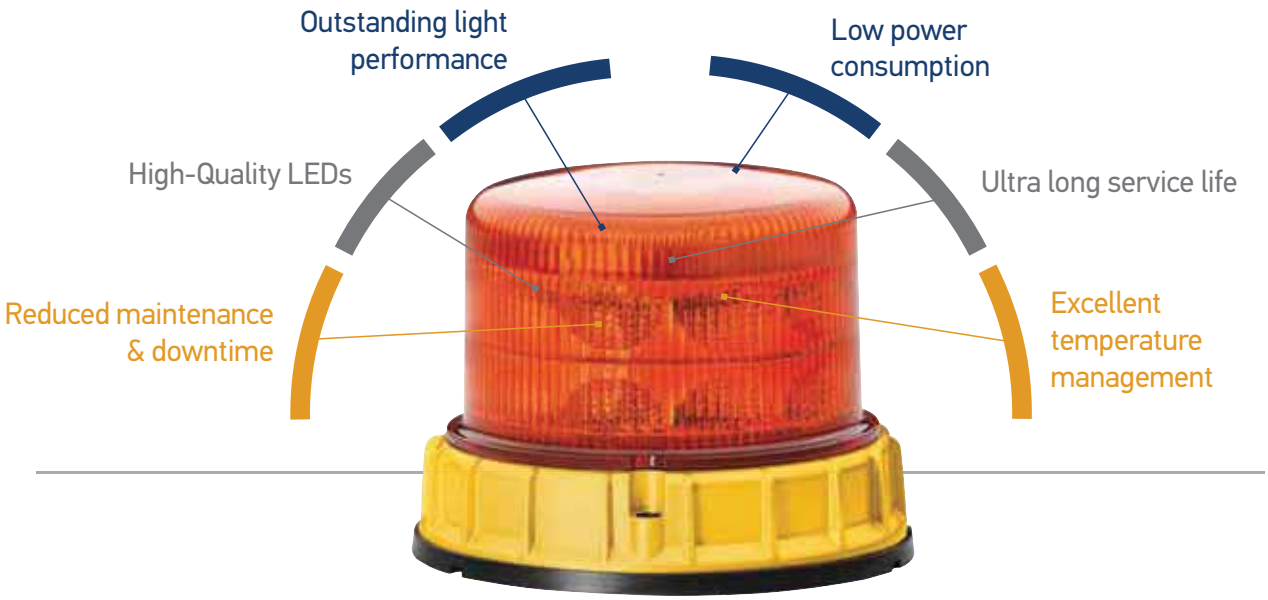
LED Warning Signal Lamps 221-227

Light Bars.....216-218

Revolving Lamps.....205-215

HELLA EMERGENCY AND SIGNAL WARNING LIGHTING

HELLA's range of Emergency Lighting and Signal Warning Lamps provide high levels of performance and reliability for situations where a powerful warning light is required to attract attention.



LED is the most desired light technology by emergency services due to the many features it offers: ultra-long service life, low power consumption, outstanding light performance, reduced downtime and maintenance requirements.

Quality materials and robust construction are combined to handle demanding and harsh environments. High-quality components, advanced technology and no moving parts offer extremely long design life. LEDs are solid state components and thus demonstrate a considerable higher vibration resistance compared to bulb and motor driven products.

HELLA's rotating and signal warning lamps, offer choices of signal colour, luminous intensities, flash patterns and supply voltages, providing a complete range of warning lamps to suit most applications and performance requirements.

The rotating light pattern is well recognised as a highly effective warning signal in all conditions, even in bright sunlight. Instant activation is ensured from ambient temperatures ranging from -40°C to +60°C.

HELLA LED products must meet the highest quality requirements before being approved for the market.



PERFORMANCE AND RELIABILITY ARE GUARANTEED

HELLA Emergency Lamps are tested to International Standards.






Vibration Test
This test simulates the behaviour of the products in harsh off-road conditions and verifies resistance to potholes, washboard road patterns and gravel roads.

A (wide band random vibration) test is used to test the mechanical endurance strength of the test specimen. The vibration frequency range extends from 10 to 1000 Hertz. In addition to vibration testing, products are subjected to a temperature overload of -40°C to +60°C.

Ingress Protection (IP ratings)
HELLA Emergency and Signal Warning Lighting contain precision electronic and mechanical components in order to achieve outstanding product performance. In order to protect these components and assure long term reliability HELLA products are designed and tested to meet international standards on ingress protection as per IEC 60529, DIN 40050-9 or ISO 20653.

Dust Test
Entry of dust can affect the optical and mechanical operation of a lamp, potentially compromising its performance and reliability. Accordingly HELLA products are designed and tested to ensure the risk of dust ingress is minimised or eliminated. Dust-resistant products are rated at IP 5(K) X, while dust-proof products are rated at IP 6(K) X.

Water Splash Test
HELLA products that fulfil the water splash test requirement have been subjected to environmental testing designed to simulate operating conditions representing normal weather conditions. When correctly installed heavy rain, direct splashes and water sprays up to 4 bar will have no adverse effects on the long term reliability and performance of the product. This level of protection is provided on HELLA products rated at IP X4K or above.

Temporary Immersion Test
HELLA products that fulfil the temporary immersion test requirement have been subjected to tests designed to simulate operating conditions that involve brief immersions in water such as off-road driving through a stream. This level of protection is provided on HELLA products rated at IP X7.

High-Pressure Cleaner Test
For the ultimate in water ingress protection, HELLA products that fulfil the high-pressure cleaner test requirement are able to withstand water and steam jets of up to 80°C and 100 bar that may be encountered during commercial and industrial cleaning processes. This level of protection is provided on HELLA products rated at IP X9K.



First Digit Below: Table 1
Protection against solid foreign objects and access to hazardous parts.

Second Digit Right: Table 2
Protection against liquids.

FIRST DIGIT	
0	Non-protected.
1	Protected against solid foreign objects of 50mm diameter and greater.
2	Protected against solid foreign objects of 12.5mm diameter and greater.
3	Protected against solid foreign objects of 2.5mm diameter and greater.
4	Protected against solid foreign objects of 1.0mm diameter and greater.
5	Dust-protected.
5K	Dust-protected.
6	Dust-sealed.
6K	Dust-sealed.

SECOND DIGIT	
0	Non-protected.
1	Protected against drops of water falling vertically.
2	Protected against drops of water falling vertically at up to 15° from the vertical.
3	Protected against spraying water falling vertically at up to 60° from the vertical.
4	Protected against splashing water from all directions.
4K	With higher pressure.
5	Protected against jet of water from all directions.
6	Protected against powerful water jets.
6K	With higher pressure, specific for road vehicles.
7	Protected against the effects of immersion.
8	Protected against prolonged effects of immersion under pressure to specified depth.
9K	Protected against high-pressure cleaner, specific for road vehicles.

KL7000LED Series

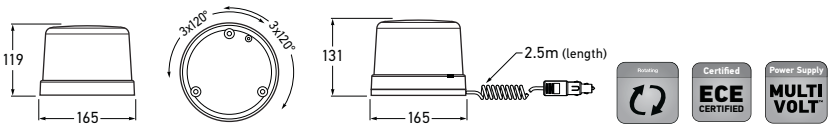
KL7000LED Beacon, has the latest LED technology provides an optimum signal image with low power consumption.

The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.





1 HMWGA160 | 1608RET



Fixed Mount		
1608	2RL 011 484-001 – **Fixed Mount, Multivolt**	AMBER
1608RET	2RL 011 484-002 – **Fixed Mount, Multivolt**	AMBER
Magnetic Mount		
1610	2RL 011 484-021 – **Magnetic Mount, Multivolt**	AMBER
Mounting	Upright, fixed mounting on horizontal surfaces. Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
EMC Interference Immunity	CISPR25 Power Controlled Class 5	
IP Rating	IP5KX, IPX4K and IPX9K	
Accessory	HMWGA160 GuardRay® Protective Cage 1	
Spare Part	9.1608.01 Lens	
Compliance	R65 TA1 E1 00 3397 e1 03 6194 ECE-R10	

KL7000LED Series

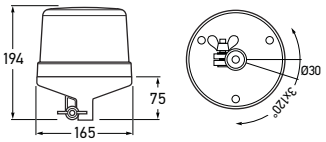
KL7000LED Beacon, with the latest LED technology provides an optimum signal image with low power consumption.

The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.





1 HMWGA160



1609	2RL 011 484-011 – **Pipe Mount, Multivolt**	AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts.	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
EMC Interference Immunity	CISPR25 Power Controlled Class 5.	
IP Rating	IP5KX, IPX4K and IPX9K	
Accessory	HMWGA160 GuardRay® Protective Cage 1	
Spare Part	9.1608.01 Lens	
Compliance	R65 TA1 E1 00 3397 e1 03 6194 ECE-R10	

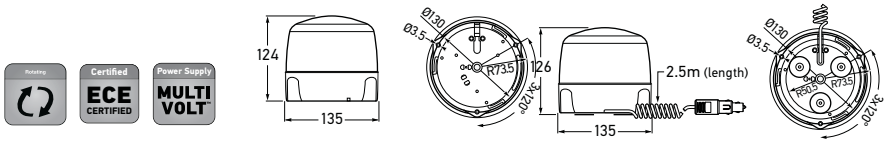
RotaLED Series

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.





1611RET

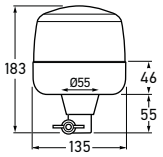


Fixed Mount		
1611	2RL 010 979-001 – **Fixed Mount, Multivolt**	■ **AMBER**
1611RET	2RL 010 979-002 – **Fixed Mount, Multivolt**	■ **AMBER**
Magnetic Mount		
1613	2RL 010 979-021 – **Magnetic Mount, Multivolt**	■ **AMBER**
Mounting	Upright, fixed mounting on horizontal surfaces. Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
EMC Interference Immunity	CISPR25 Power Controlled Class 5	
IP Rating	IP5KX, IPX4K and IPX9K	
Spare Part	9EL 181 506-001 Lens	
Compliance	R65 TA1 (E1) 00 3109 e1 03 5517 ECE-R10	

RotaLED Series

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.





1612	2RL 010 979-011 – **Pipe Mount, Multivolt**	■ **AMBER**
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 220)	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
EMC Interference Immunity	CISPR25 Power Controlled Class 5.	
IP Rating	IP5KX, IPX4K and IPX9K	
Compliance	R65 TA1 (E1) 00 3109 e1 03 5517 ECE-R10	

RotaLED Compact

The HELLA RotaLED Compact is the LED successor to the existing Rotafix halogen beacon series.

These can be replaced 1:1. No moving parts are required for the LED functions – so no wear and maximum reliability.

Since LEDs are maintenance-free, they do not cause any additional costs for spare parts or maintenance. Downtime is reduced to a minimum.



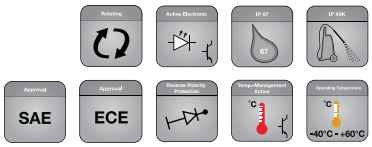
2RL 014 979-001



2RL 014 979-021



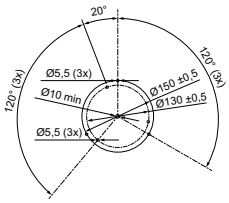
2RL 014 979-011



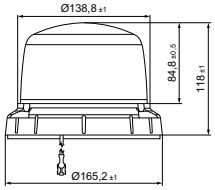
Fixed Mount	
2RL 014 979-041 - RotaLED Compact F	**AMBER**
Voltage	Multivolt 10-30 V DC
Current Draw	0.6A (12V) 0.3A (24V)
Power Consumption	7W Max
Dome Lens	Polycarbonate
Housing	Black, polycarbonate and ABS
IP Rating	IP 67, IP X9K
Operating temperature	-40°C to 60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	CISPR25 Class 5*
Type Approval	SAE J845, Class 1

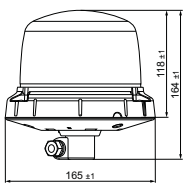
Fixed Mount	
2RL 014 979-001 - RotaLED Compact F	**AMBER**
Magnetic Mount	
2RL 014 979-021 - RotaLED Compact M	**AMBER**
Pipe Mount	
2RL 014 979-011 - RotaLED Compact FL	**AMBER**
Voltage	Multivolt 10 – 30V DC
Current Draw	0.6A (12V) 0.3A (24V)
Power Consumption	7W Max
Dome Lens	Polycarbonate
Housing	Black, polycarbonate and ABS
IP Rating	IP 67, IP X9K
Operating Temperature	-40°C to 60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	CISPR25 Class 5*
Type Approval	ECE-R65 TA 1 004837 SAE J845, Class 2

*150 - 300 kHz: Class 3

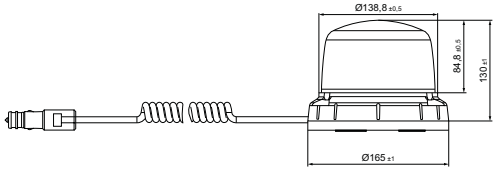


RotaLED Compact F





RotaLED Compact FL



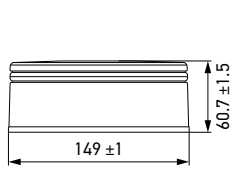
RotaLED Compact M

K-LED® Rebelution

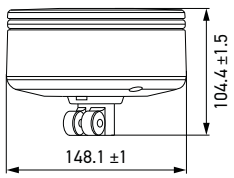
The K-LED® Rebelution is a revolutionary beacon featuring the latest LED technology. It provides maximum performance in a minimalist and highly innovative, dome-free design.

Instead, the light is visible through a circumferential, ring-shaped light band. Despite light exit area being smaller than a conventional domed beacon the K-LED® Rebelution emits a highly visible warning signal.

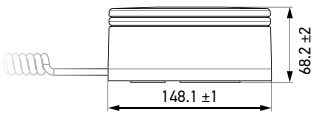
Fixed Mount	
2RL 455 256-001 - K-LED Rebelution, Fixed Mount	AMBER
Magnetic Mount	
2RL 455 256-021 - K-LED Rebelution, Magnet Mount	AMBER
Flexible Pipe Socket Adapter	
2RL 455 256-011 - K-LED Rebelution, Pipe Mount	AMBER
Voltage	12V / 24V DC
Current Consumption	@ 1.08A (12V) @ 0.54A (24V)
Power Consumption	Max. 13 W
Light Ring	Polycarbonate
Housing	Aluminium
IP Rating	IP 6K7, IP 6K9K
Operating Temperature	-40°C to 60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3
GGVSE / ADR	Yes
Type Approval	ECE-R65 TA1 (E1)



Fixed mounting (F)



Pipe socket adapter (FL)



Magnet mounting (M)


2RL 455 256-001


2RL 455 256-021

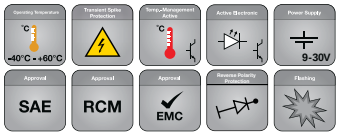

2RL 455 256-011



MiniRAY 2.1

MiniRAY 2.1 is a flashing only Beacon with a flat compact design, low current consumption, high efficiency and long service life. Designed for Mining service vehicles, the LEDs are maintenance-free so no additional spare parts are required, to reduce downtime to a minimum.

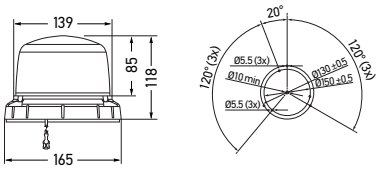
It is available in fixed mount or magnetic mount making installation extremely flexible (Ø 130 mm and SAE Ø 150 mm).



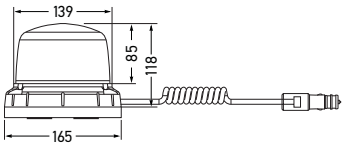
Fixed Mount	Magnetic Mount	
2XD 012 480-301	**2XD 012 480-401**	AMBER
2XD 012 480-341		GREEN

Voltage	9-30V DC
Current Consumption	Flashing: @ approx. 0.4A (12V)
Power Consumption	4W
Dome Lens	Polycarbonate
Housing	Polycarbonate & ABS
IP Rating	IP6K7, IP6K9K
Temperature Range	-40°C to 60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	ECE-R10 057636,
Type Approval	SAE J845 Class 3

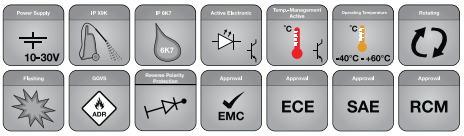




Fixed attachment
Dimensions in mm



Magnetic attachment
Dimensions in mm



	Fixed Mount	Magnetic Mount	
UltraRay 2.0 Rotating	2RL 012 983-001	2RL 012 983-101	AMBER
	2RL 012 983-011	2RL 012 983-111	BLUE
	2RL 012 983-021	2RL 012 983-121	RED
	2RL 012 983-031	2RL 012 983-131	GREEN
	2RL 012 983-041	2RL 012 983-141	WHITE
UltraRay 2.1 Flashing	2XD 012 984-001	2XD 012 984-101	AMBER
	2XD 012 984-011	2XD 012 984-111	BLUE
	2XD 012 984-021	2XD 012 984-121	RED
	2XD 012 984-031	2XD 012 984-131	GREEN
	2XD 012 984-041	2XD 012 984-141	WHITE

Voltage	10-30V DC
Current Consumption	Rotating: @ 1.6A (12V) & @ 0.8A (24V) Flashing: @ 1.8A (12V) & @ 0.9A (24V)
Power Consumption	Rotating: 20W Flashing: 22W
Dome Lens	Polycarbonate
Housing	Powder-coated die-cast aluminium
IP Rating	IP6K7, IP6K9K
Temperature Range	-40°C to +60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	ECE-R10, CISPR 25 Class 5,
Type Approval	SAE J845 Class 1, ECE R65
ECE R65 Compliance UltraRay 2.0 Rotating	Amber: TA1 E1 R65 004439 Blue: TB1 E1 R65 004440 Red: TR1 E1 R65 004441
ECE R65 Compliance UltraRay 2.1 Flashing	Amber: TA1 E1 R65 004442 Blue: TB1 E1 R65 004443 Red: TR1 E1 R65 004444

UltraRAY 2.0 (Rotating)
UltraRAY 2.1 (Flashing)
Powerful Heavy Duty LED Beacon

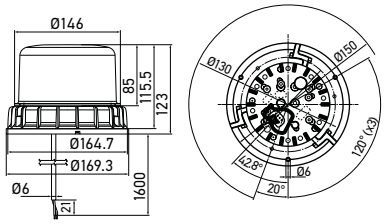
UltraRAY Beacons are a innovative electronic concept offering a rotating or a flashing LED light function – without moving parts.

The unsurpassed EMI footprint meets the highest possible standard (CISPR25 Class 5). Wherever Beacons risk interference with radio communications, UltraRAY is the solution. UltraRAY can be mounted directly next to radio communication systems and there will be no disturbance from the Beacon.

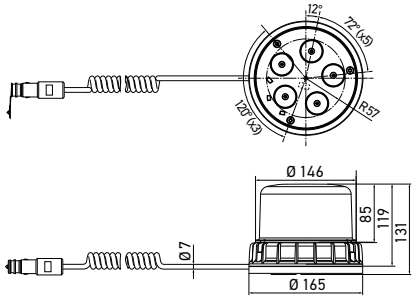
The shockproof polycarbonate dome guarantees especially reliable protection from impact.

The double lighting system in the UltraRAY 2.0 / 2.1 increases the light exit area, so producing an especially strong warning effect.





Fixed attachment
Dimensions in mm



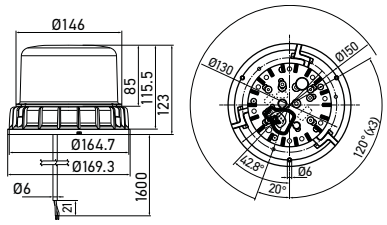
Magnetic attachment
Dimensions in mm

EMERGENCY & SIGNAL

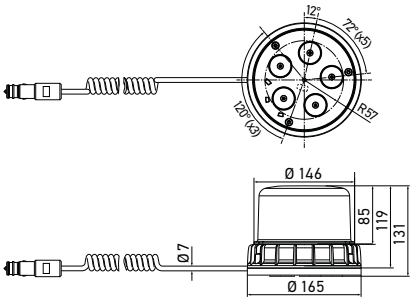
DuraRAY 4.0 Brightest HELLA LED Beacon Made for Mining

The integrated light sensor automatically toggles between day and night mode. This guarantees the best possible warning effectiveness.





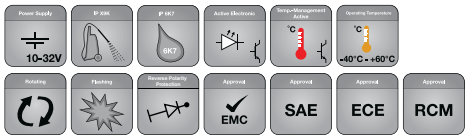
Fixed attachment
Dimensions in mm

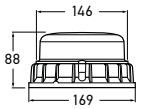


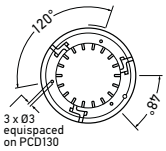
Magnetic attachment
Dimensions in mm

Fixed Mount	Magnetic Mount	
2XD 012 985-001	**2XD 012 985-101**	AMBER
2XD 012 985-011	-	BLUE
2XD 012 985-021	**2XD 012 985-121**	RED
2XD 012 985-031	-	GREEN
2XD 012 985-041	**2XD 012 985-141**	WHITE

Voltage	10-30V DC
Current Consumption	@ 2.6A (12V) @ 1.3A (24V)
Power Consumption	32W
Dome Lens	Polycarbonate
Housing	Powder-coated die-cast aluminium. Passivated.
IP Rating	IP6K7, IP6K9K
Temperature Range	-40°C to 60°C
Reverse Polarity Protection	Yes
EMC Interference Immunity	ECE-R10, CISPR 25 Class 5,
Type Approval	SAE J845 Class 1, ECE R65
ECE R65 Compliance Rotating Function	Amber: TA1 E1 R65 004509 Blue: TB1 E1 R65 004510 Red: TR1 E1 R65 004511
ECE R65 Compliance Flashing Function	Amber: TA1 E1 R65 004512 Blue: TB1 E1 R65 004513 Red: TR1 E1 R65 004514







Fixed Mount		
HM9600ADIR	2XD 011 557-001 – Fixed Mount, Multivolt	AMBER
2XD 011 557-101 - Fixed Mount, Multivolt, Silver Base		AMBER
HM9600BDIR	2XD 011 557-011 – Fixed Mount, Multivolt	BLUE
HM9600RDIR	2XD 011 557-021 – Fixed Mount, Multivolt	RED
HM9600GDIR	2XD 011 557-031 – Fixed Mount, Multivolt	GREEN
Voltage	Multivolt 9-33V DC	
Power Consumption	33W Max	
Dome Lens	Polycarbonate	
Housing	Powder-coated die-cast aluminium	
IP Rating	IP6K7, IP6K9K	
Temperature Range	-40°C to 60°C	
Reverse Polarity Protection	Yes	
EMC Interference Immunity	CISPR25 Class 5. ECE R10.	
Type Approval	SAE J845 Class 1	
ECE R65 Compliance	Amber: TA2 (E1) R65 00 3555 Red: TR2 (E1) R65 03 6816	

K-LED® Mining LED Warning Beacon

K-LED® Mining is the benchmark in the world of low profile mining beacons. This state-of-the-art beacon is designed for smaller mobile vehicles to suit modern styling requirements.



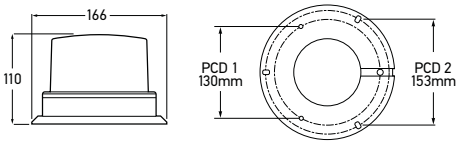
HM9600ADIR

2XD 011 557-101

OptiRAY®-E Series

Compact and extremely robust LED Warning Beacon for heavy-duty applications. Equipped with high impact-resistant, clear polycarbonate lens and UV-resistant fibreglass nylon composite base for increased mechanical strength. Tolerant to severe vibration levels and suitable for corrosive environments where metal products should not be used. O-ring sealed against dust and water ingress.





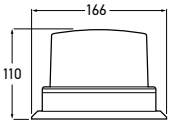
Fixed Mount		
HM300ADIR	2RL 910 073-001 – Direct Mount, Multivolt	AMBER
HM300RDIR	2RL 910 075-051 – Direct Mount, Multivolt	RED
HM300BDIR	2RL 910 075-011 – Direct Mount, Multivolt	BLUE
HM300GDIR	2RL 910 075-031 – Direct Mount, Multivolt	GREEN
HM300WDIR	2RL 910 075-071 – Direct Mount, Multivolt	WHITE
Magnetic Mount		
HM300AMAG	2RL 910 075-001 – Magnetic Mount, Multivolt	AMBER
HM300GMAG	2RL 910 075-041 – Magnetic Mount, Multivolt	GREEN
Mounting	Fixed or Magnetic mounting on horizontal surfaces	
Voltage	Multivolt 12-30V DC	
Power Consumption	12W Max	
Flash Rate	80 per minute (double)	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable)	
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G	
Spare Part	9.HM360LENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

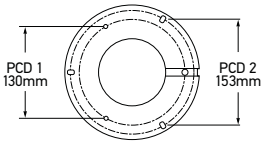
OptiRAY® Series

Extremely robust LED Warning Beacon for heavy-duty applications, featuring sixteen user-selectable flash patterns and automatic daylight detection to suit a large variety of applications.

Equipped with high impact-resistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. Double insulated supply cable and o-ring sealed against dust and water ingress.





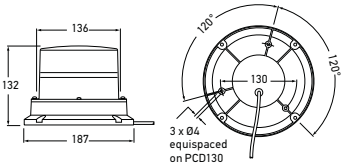


Fixed Mount		
HM360ADIR	2RL 910 078-021 – Direct Mount, Multivolt	AMBER
HM360RDIR	2RL 910 078-111 – Direct Mount, Multivolt	RED
HM360BDIR	2RL 910 078-061 – Direct Mount, Multivolt	BLUE
HM360GDIR	2RL 910 078-081 – Direct Mount, Multivolt	GREEN
Magnetic Mount		
HM360AMAG	2RL 910 078-041 – Magnetic Mount, Multivolt	AMBER
HM360RMAG	2RL 910 078-121 – Magnetic Mount, Multivolt	RED
HM360BMAG	2RL 910 078-071 – Magnetic Mount, Multivolt	BLUE
HM360GMAG	2RL 910 078-091 – Magnetic Mount, Multivolt	GREEN
Mounting	Fixed or magnetic mounting on horizontal surfaces	
Voltage	Multivolt 12-30V DC	
Power Consumption	20W Max	
Flash Rate	80 per minute (double) 16 user-selectable flash patterns, including rotating	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable)	
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G	
Spare Part	9.HM360LENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

UltraRAY® Series

Extremely robust LED Warning Beacon for heavy-duty applications, featuring four user-selectable flash patterns and automatic daylight detection to suit a large variety of applications. Equipped with high impact-resistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. O-ring sealed against dust and water ingress.



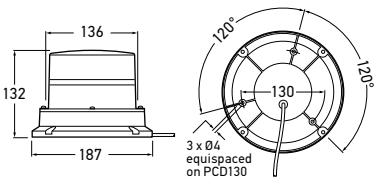


Fixed Mount		
HM400ADIR	2RL 910 081-001 – Direct Mount, Multivolt	AMBER
HM400RDIR	2RL 910 081-031 – Direct Mount, Multivolt	RED
HM400BDIR	2RL 910 081-011 – Direct Mount, Multivolt	BLUE
HM400GDIR	2RL 910 081-021 – Direct Mount, Multivolt	GREEN
HM400WDIR	2RL 910 081-041 – Direct Mount, Multivolt	WHITE
Mounting	Fixed mounting on horizontal surfaces	
Voltage	Multivolt 12-30V DC	
Power Consumption	20W Max	
Flash Rate	80 per minute (double). 4 user-selectable flash patterns (double, quad and 2 random patterns)	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable)	
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G	
Spare Part	9.HM400LENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

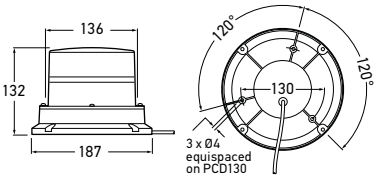
UltraRAY®-R Twin Series

The UltraRAY®-R Twin LED Beacon is designed for increased visibility in bright sunlight with more than double the intensity of the original UltraRAY®. Compact, robust and tolerant to severe vibration, maintenance-free LEDs reduce demand on electrical systems by up to 70%. A highly efficient and effective warning beacon in daylight on surface operations in extreme environmental conditions.





Fixed Mount		
HM500ADIR	2RL 910 097-001 – 'Rotating' Direct Mount, Multivolt	AMBER
HM500RDIR	2RL 182 653-502 – 'Rotating' Direct Mount, Multivolt	RED
HM500BDIR	2RL 182 653-102 – 'Rotating' Direct Mount, Multivolt	BLUE
HM500GDIR	2RL 182 653-302 – 'Rotating' Direct Mount, Multivolt	GREEN
Mounting	Fixed mounting on horizontal surfaces	
Voltage	Multivolt 12-30V DC	
Power Consumption	50W Max	
Flash Rate	Rotating 80 cycles/min Flash 72fpm (quad)	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable)	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RLENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS White PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	



UltraRAY®-R 'Rotating' Series

UltraRAY®-R LED Warning Beacons are optimised to deliver high visibility warning signals in the dusty conditions of surface mining operations – day and night.

UltraRAY®-R Beacons feature user-selectable 'rotating' or quad flash patterns.



Fixed Mount		
HM450ADIR	2RL 910 087-001 – 'Rotating' Direct Mount, Multivolt	AMBER
HM450RDIR	2RL 910 087-081 – 'Rotating' Direct Mount, Multivolt	RED
HM450BDIR	2RL 910 087-041 – 'Rotating' Direct Mount, Multivolt	BLUE
HM450GDIR	2RL 910 087-061 – 'Rotating' Direct Mount, Multivolt	GREEN
Magnetic Mount		
HM450AMAG	2RL 910 087-031 – 'Rotating' Magnetic Mount, Multivolt	AMBER
HM450BMAG	2RL 910 087-051 – 'Rotating' Magnetic Mount, Multivolt	BLUE

Mounting	Fixed or magnetic mounting on horizontal surfaces
Voltage	Multivolt 12-30V DC
Power Consumption	20W Max
Flash Rate	Rotating 80 cycles/min Flash 72fpm (quad)
Temperature Range	-20° to +50°C
Lead Length	2 metres (double-insulated cable)
Protection	Overheat, reverse polarity and short circuit protected Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RLENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS Clear PC Lens
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)

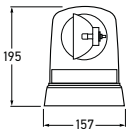
KL7000 Series

KL7000 high performance revolving Beacon has light values well above the minimum requirements. All KL7000 Beacons can be operated on 12V or 24V by changing the globe. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.

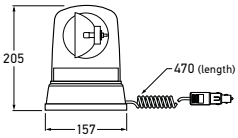




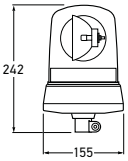




1728



1729



1735

1728	2RL 008 061-142 – **Fixed Mount, 12V DC**	**AMBER**
1728-24V	2RL 378 299-002 – **Fixed Mount, 24V DC**	**AMBER**

1729	2RL 008 062-132 – **Magnetic Mount, Dual Voltage 12/24V DC***	**AMBER**
1735	2RL 905 145-001 – **Flexi-base Mount, Dual Voltage 12/24V DC***	**AMBER**

Current Draw	12V DC - 5.5A 24V DC - 3.5A
Power Consumption	12V DC - 55W 24V DC - 70W
Rotation	160rpm
EMC Interference Immunity	Conducted Class 5 (CISPR25)
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)
Globes to Suit	12V C1255 (included) 1728, *1729, *1735 24V C2470 (included) 1728-24V

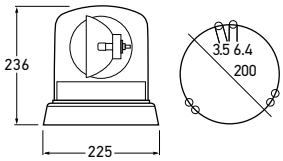
Spare Parts

9.1726.01	Blue lens
9.1727.01	Red lens
9.1728.01	Amber lens
9.1737.91	Two drive belts
9.1726.23	Reflector assembly
9.1726.52	Motor assembly 12/24V
8007	Connecting piece 1
8007RA	Connecting piece - right angle mount 2
8007FM	Connecting piece - flat mount 3
8007SCR	2-Pole Beacon Mount - Screw 4

HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 219)
See pages 219 & 220 for spare part images.



1 8007 | 2 8007FM | 3 8007RA | 4 8007SCR



Globe Included 12V GLOBE INC

1796	2RL 008 065-141 – Fixed Mount, Dual Voltage 12/24V DC	■ AMBER
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160rpm	
EMC Interference Immunity	Conducted Class 5 (CISPR 25)	
Globe to Suit	12V - C1255 (included) 24V - C2470	
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)	
Spare Parts	9.1796.01 ■ Amber lens 9.1737.91 Two drive belts 9.1726.52 Motor assembly 12/24V	

KL8000 Series

KL8000 revolving Beacon was developed for large and heavy commercial vehicles. High light values guarantee utmost warning effectiveness and safety. Smooth running is achieved due to the maintenance-free drive bearings and twin-belt technology.





9.1726.52



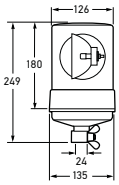
9.1737.91



KL600 Series Beacon

Pipe Mount revolving Beacon. Halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.





Globe Included 24V GLOBE INC

1713	2RL 004 957-111 – 24 Volt, Pipe Mount, Optic Lens	■ AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 219)	
Voltage	24V DC (globe included)	
Current Draw	24V DC - 3.5A	
Power Consumption	24V DC - 70W	
Rotation	160 +/- 30 rpm	
Protection	IP 45	
Note	1710 version shown	
Globe to Suit	24V H1 (C2470)	
Accessories	8007 2-Pole Beacon Mount 8007FM 2-Pole Beacon Mount – Flat 8007RA 2-Pole Beacon Mount – 90° 8007SCR 2-Pole Beacon Mount – Screw	
Spare Parts	9.1708.01 ■ Blue Lens 9.1701.01 ■ Red Lens 9.1710.01 ■ Amber Lens 9.1713.01 ■ Amber Lens (optic) 9.1717.23 Reflector Base Assembly (screw mount) 9.1720.54 24V Motor (plastic type) 9.1737.91 Drive Belts (set of 2)	



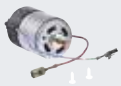
8007



9.1717.23

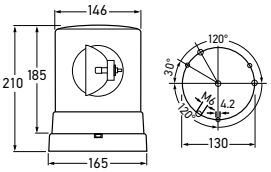


9.1737.91



9.1720.54

KL700 Series Beacon



KL700 high performance revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin-belt drive ensures a smooth and quiet operation.



Globe Included 12V GLOBE INC

Globe Included 24V GLOBE INC

1717	**2RL 905 137-001 – 12 Volt DC, Fixed Mount**	**BLUE**
1720	**2RL 905 139-001 – 24 Volt DC, Fixed Mount**	**BLUE**
1719	**2RL 905 137-021 – 12 Volt DC, Fixed Mount**	**AMBER**
1722	**2RL 905 139-021 – 24 Volt DC, Fixed Mount**	**AMBER**
1724	**2RL 905 143-001 – Optic Lens**	**AMBER**
Mounting	Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing screws, DIN B1: PCD 130mm	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160rpm	
EMC Interference Immunity	VDE 0879, Class 3, FM 5	
Globe to suit	12V H1 (C1255) 24V H1 (C2470)	
Protection	IP5KX, IPX4K and IPX9K	
Note	Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit	
Accessories	1653 Magnetic Mounting Kit (1) Caution: Mounting restrictions apply. (see page 219) HMWGA220 GuardRay Protective Cage (2)	
Spare Parts	9.1717.01 Blue Lens 9.1719.01 Amber Lens 9.1724.01 Amber Lens (optic) 9.1717.54 12V Motor (plastic type) 9.1720.54 24V Motor (plastic type) 9.1717.52 12V Motor with reflector (clip mount) 9.1737.91 Drive Belts (set of 2) 9.1717.23 Reflector Base Assembly (screw mount)	
HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 219)		



(1) 1653



(2) HMWGA220



9.1717.23



9.1717.54



9.1737.91



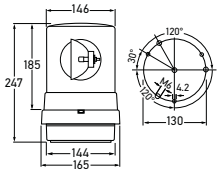
9.1717.52

EMERGENCY & SIGNAL

KL700 Series

Pre-fitted with sturdy Magnetic Base (Part No. 1653) for quick and secure attachment on vehicle roof.





Globe Included 12V GLOBE INC

1719MAG	2RL 905 138-001 – Magnetic Mount, 12V DC	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with 1.5 metre cable and 2-pole plug for the cigarette lighter socket.	
Voltage	12V DC (globe included)	
Current Draw	12V DC - 5A	
Power Consumption	12V DC - 55W	
Flash Rate	160 +/- 30 rpm.	
EMC Interference Immunity	VDE 0879, Class 3, FM5	
Protection	IP5KX, IPX4K and IPX9K	
Note	Meets shock test MIL-S9-10C, SAE J1318 requirements for class 2, AAMVA certified	
Globes to Suit	12V H1 (C1255)	
Spare Parts	9.1719.01 ■ Amber Lens 9.1724.01 ■ Amber Lens (optic) 9.1717.54 12V Motor (plastic type) 9.1717.23 Reflector Base Assembly (screw mount) 9.1717.52 12V Motor with reflector (clip mount) 9.1737.91 Drive Belts (set of 2)	

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 219)



9.1717.23



9.1717.52



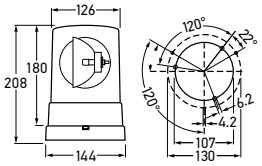
9.1717.54



9.1737.91

KL710 Series

KL710 revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.

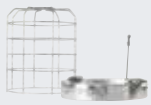




1702	**2RL 006 295-301 – 12 Volt DC, Fixed Mount**	**AMBER**
1705	**2RL 006 295-311 – 24 Volt DC, Fixed Mount**	**AMBER**
Mounting	Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing screws. DIN B1: PCD 130mm or 107mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30 rpm	
EMC Interference Immunity	VDE 0879, Class 3, FM 5	
Globes to suit	12V H1 (C1255) 24V H1 (C2470)	
Protection	IP5KX, IPX4K and IPX9K	
Note	Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit	
Accessories	1653 Magnetic Mounting Kit (1) Caution: Mounting restrictions apply. (see page 219) HMWGA220 GuardRay Protective Cage (2)	
Spare Parts	9.1708.01 Blue Lens 9.1701.01 Red Lens 9.1710.01 Amber Lens 9.1713.01 Amber Lens (optic) 9.1717.52 12V Motor with reflector (clip mount) (2) 9.1717.23 Reflector Base Assembly (screw mount) (3) 9.1717.54 12V Motor (plastic type) (5) 9.1720.54 24V Motor (plastic type) (5) 9.1737.91 Drive Belts (set of 2) (6)	
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 219)		



(1) 1653



(2) HMWGA220



9.1717.54



9.1717.52



9.1717.23



9.1737.91

EMERGENCY & SIGNAL

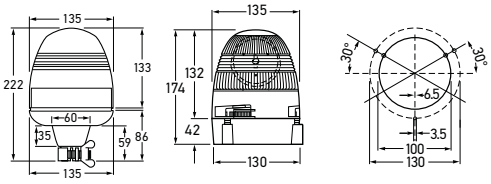
KL Rotafix Series

Revolving Beacon with impact-resistant polycarbonate optic lens and rubber base.









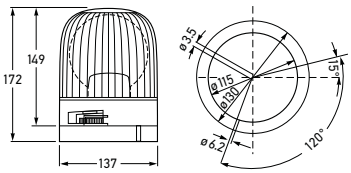
Pipe Mount		
1730	2RL 006 846-001 – Pipe Mount, 12V DC	AMBER
1731	2RL 006 846-011 – Pipe Mount, 24V DC	AMBER
Fixed Mount		
1732	2RL 007 337-001 – Fixed Mount, 12V DC	AMBER
1732-24V	2RL 007 337-011 – Fixed Mount, 24V DC	AMBER
Magnetic Mount		
1733	2RL 007 337-021 – Magnetic Mount, 12V DC	AMBER
Mounting	Mounting on horizontal surfaces. DIN B1: PCD 130mm or 100mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Flash Rate	160 +/- 30 rpm	
EMC Interference Immunity	VDE 0879, Class 3, FM5	
Protection	IP5K4K9K	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Compliance	R65	E1 6509 e1 03 2181
Spare Parts	8007 8007FM 8007RA 8007SCR	Connecting piece 1 Connecting piece - flat mount 2 Connecting piece - right angle mount 3 2-Pole Beacon Mount - Screw 4

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 219)



1 8007 | 2 8007FM | 3 8007RA | 4 8007SCR

KL Ranger Series



Impact-resistant polycarbonate lens.





Fixed Mount		
1786	**2RL 007 550-001 – Fixed Mount, 12V DC**	■ **AMBER**
1787	**2RL 007 550-011 – Fixed Mount, 24V DC**	■ **AMBER**
Magnetic Mount		
1792	**2RL 007 552-001 – Magnetic Mount, 12V DC**	■ **AMBER**
Mounting	Fixed Mounting on horizontal surfaces. DIN B1: PCD 130mm or 115mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30 rpm	
Protection	IP5K4K9K	
EMC Interference Immunity	VDE 0879, Class 3, FM5	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Spare Parts	9.1786.01 ■ Amber Lens	
Accessories	8007 2-Pole Beacon Mount 8007FM 2-Pole Beacon Mount – Flat 8007RA 2-Pole Beacon Mount – 90° 8007SCR 2-Pole Beacon Mount – Screw	
Compliance	R65	(E1) 6509 [e1] 03 2181

Micro Light Bar

The Micro Light Bar is a powerful LED warning light that generates an intensive 360-degree warning signal suitable for various applications.

The Micro Light Bar combines a flashing and rotating signal in one unit, while also providing reverse polarity protection.

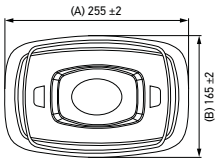
Available in either a clear or amber lens, with amber illumination.

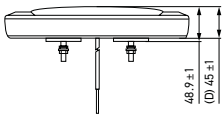


2RL 014 566-111
Clear lens, amber illumination



2RL 014 566-311
Amber lens, amber illumination







2RL 014 566-111 – Clear lens	**AMBER**
2RL 014 566-311 – Amber lens	**AMBER**
Dome and Housing	Polycarbonate
Operating Voltage	Multivolt 10 – 30V DC
Current Consumption	5.6 A (12V) 2.7 A (24V)
Power Consumption	Max. 66W
Light Function	Flashing and Rotating
Connection	500 mm cable
Weight	691 g
Temperature Range	-40°C to +65°C
Reverse Polarity Protection	Yes
Protection	IP X7, IP X9K
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3,
Type Approval	SAE J845 Class 1

Mini Light Bar

The Mini Light Bar is a powerful LED warning light that generates an intensive 360-degree warning signal suitable for various applications.

The Mini Light Bar combines a flashing and rotating signal in one unit, while also providing reverse polarity protection.

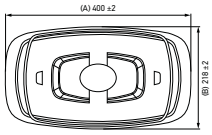
Available in either a clear or amber lens, with amber illumination.

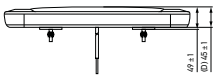


2RL 014 565-111
Clear lens, amber illumination



2RL 014 565-311
Amber lens, amber illumination







2RL 014 565-111 – Clear lens	**AMBER**
2RL 014 565-311 – Amber lens	**AMBER**
Dome and Housing	Polycarbonate
Operating Voltage	Multivolt 10 – 30V DC
Current Consumption	6.1 A (12 V) 2.8 A (24 V)
Power Consumption	Max. 70W
Light Function	Flashing and Rotating
Connection	500 mm cable
Weight	1,300 g
Temperature Range	-40°C to +65°C
Reverse Polarity Protection	Yes
Protection	IP X7, IP X9K
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3,
Type Approval	SAE J845 Class 1

Corner Module 270

The HELLA Corner Module 270 is a special wide angle warning lamp which is approved as a “half bar” as a set of two modules and offers a new alternative to conventional beacons. Two modules illuminate an area of at least 270 degrees at a distance of 20m from the vehicle. They can be integrated into the vehicle body or mounted on top using a bracket.

The housing is black and a flashing amber warning lamp creates attention around the vehicle. It is possible to create a double flashing pattern and synchronize the modules. The modules are suggested to be positioned at a 45 degree angle to the driving direction for uniform illumination over full 270 degrees.



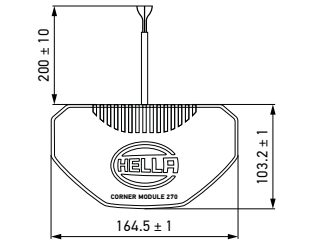
2XD 455 355-001	AMBER
Rated Voltage	Multivolt
Operating Voltage	12 / 24 V DC
Current Consumption	Max. 2.5 A for one module
Power Consumption	Max. 30 W for one module
Lamp Function	Flashing
Light Source	LED
Material	Lens: polycarbonate housing: PC-ABS
Weight	318 g
Temperature Range	-40°C to +60°C
Protection Class	IP 67
Type Approval	ECE-R65 HTA1 only for the set of two modules E1 HTA1 005117 10R 058984
EMC Interference Immunity	CISPR 25 Class 5
Mounting	Inbuilt, bracket mounting
Connection	Cable length: 200 mm, cable bare ends
Spare Part	2XD 455 355-011 (Single module for replacement)

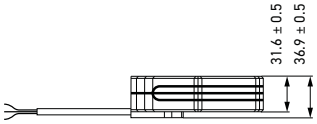
Integration

In order to integrate the elements into the vehicle body, appropriate space must be planned.







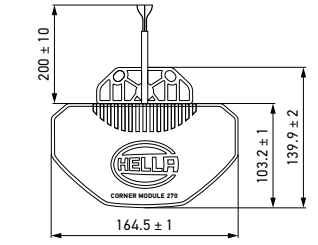


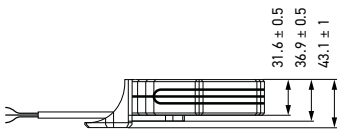
Bracket mounting

The supplied brackets allow for surface-mounting of the product.







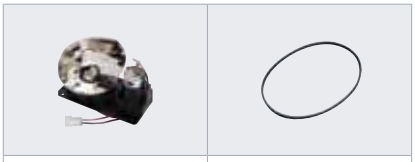


Mini Light Bar

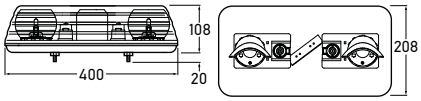
Compact, low-profile Light Bar with two rotating modules. Fitted with impact-resistant polycarbonate lens, dual-speed drive belts and stainless-steel bearings for maximum durability. Modular construction enables easy service and exchange of components.







1 9.1800.53 | 2 9.1800.91



Globe Included 12V GLOBE INC

Fixed Mount		
1811A	2RL 905 146-001 – **Surface Mount, 12V DC**	■ **AMBER**
Magnetic Mount		
1811MAGA	2RL 905 146-011 – **Magnetic Mount, 12V DC**	■ **AMBER**
Mounting	Surface Mount (2 x mounting bolts included). Magnetic Mounting on horizontal surfaces (2 x cushions and magnets included). Supplied with 2.7m cable and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	12V DC (globes included)	
Globe to suit	2 x 12V H1 (C1255)	
Note	HELLA Light Bars may be converted to 24V DC input by changing the globes supplied and adjusting the belt rotation speed. Other lens colours (e.g. Red and Blue) can be supplied at very short notice.	
Spare Parts	9.1811A.01 ■ Amber Lens – 400mm 9.1800.53 Rotator Module Assembly 1 9.1800.91 Drive Belt 2	

Magnetic Mounting Kit - KL700 and KL710



1653	8HG 905 129-001 – Magnetic Mounting Kit - KL700 and KL710	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes sturdy magnetic base (145mm dia.), 1.5m cable and 2-pole plug for the cigarette lighter socket.	
Height	35mm.	
Suits	All KL700 and KL710 Series Revolving Lamps	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

Magnetic Mounting Kit - Firebolt Plus



8027	8HG 950 835-001 – Magnetic Mounting Kit - Firebolt Plus	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm.	
Suits	All Firebolt Plus Series Strobe Lamps	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

Magnetic Mounting Kit - 602 and 851 Series



8029	8HG 950 837-001 – Magnetic Mounting Kit - 602 and 851 Series	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm	
Suits	All 602 and 851 Series Strobe Lamps	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

2-Pole Beacon Mount



8007	8HG 002 365-001 – 2-Pole Beacon Mount	KIT
Description	2-Pole Beacon Mount for pipe mounting. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



8007FM	8HG 006 294-011 – 2-Pole Beacon Mount - Flat	KIT
Description	2-Pole Beacon Mount with bracket for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



8007RA	8HG 006 294-111 – 2-Pole Beacon Mount - 90°	KIT
Description	2-Pole Beacon Mount with 90-degree bracket (50mm) for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



8007SCR	8HG 006 294-091 – 2-Pole Beacon Mount - Screw	KIT
Description	2-Pole Beacon Mount with screw attachment (M24 thread). Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

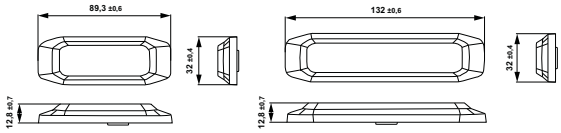
GuardRay® Protective Cages

GuardRay® cages are hot-dip galvanised for corrosion protection and fabricated from heavy welded steel wire with bases pre-drilled to accept the standard mounting holes of all our popular Warning Beacons and Bases. Beacons mount inside the universal base, and the wire cage is then clamped to the base. A nylon lanyard stops the cage from falling during servicing.



HMWGA160	9GH 910 181-011 – Protective Cage - 160mm		GALVANISED
HMWGA220	9GH 910 181-021 – Protective Cage - 220mm		GALVANISED
Dimensions	HMWGA160 HMWGA220	180 x 160mm (d x h) 180 x 220mm (d x h)	
Suits	HMWGA160 HMWGA220	KL7000LED RotaLED DuraRay 4.0 KL700 KL710 KL7000 KLX7000 OptiRay-E UltraRay 2.0/2.1	





BST-Slim 3 LED

BST-Slim 6 LED

2XD 014 563-401 – 3 LED	**AMBER**
2XD 014 563-101 – 3 LED	**BLUE**
2XD 014 563-701 – 3 LED	**RED**
2XD 014 563-901 – 3 LED	**WHITE**
Operating Voltage	Multivolt 11 – 30 V DC
Current Consumption	Amber: 0.7 A (12 V), 0.35 A (24 V) Blue: 0.7 A (12 V), 0.35 A (24 V) Red: 0.54 A (12 V), 0.27 A (24 V) White: 0.7 A (12 V), 0.35 A (24 V)
Power Consumption	7 – 14 W
Temperature Range	-40°C to +65°C
Protection	IPX7, IPX9K
EMC Interference Immunity	ECE-R10, CISPR 25 Class 5,
Type Approval	SAE J595 Class 1

2XD 014 562-401 – 6 LED	**AMBER**
2XD 014 562-101 – 6 LED	**BLUE**
2XD 014 562-701 – 6 LED	**RED**
2XD 014 562-811 – 6 LED	**BLUE/RED**
2XD 014 562-901 – 6 LED	**WHITE**
Operating Voltage	Multivolt 11 – 30 V DC
Current Consumption	Amber: 1.4 A (12 V), 0.7 A (24 V) Blue: 1.4 A (12 V), 0.7 A (24 V) Red: 1.1 A (12 V), 0.55 A (24 V) White: 1.4 A (12 V), 0.7 A (24 V)
Power Consumption	7 – 14 W
Temperature Range	-40°C to +65°C
Protection	IPX7, IPX9K
EMC Interference Immunity	ECE-R10, CISPR 25 Class 5
Type Approval	SAE J595 Class 1 For 2XD 014 562-811 (blue/red): ECE-R65 XR1 and XB1

BST Slim

The BST-Slim is a high-performance warning light which is available with 3 or 6 LEDs. There are different warning light colours and various flashing sequences which create a synchronous or alternating signal.

The Dual Colour warning light is ECE-R65 type-tested and the rest are SAE approved. It can be used for single, double, triple and quadruple flash as well as with continuous light.

The product with 6 LEDs comes with a "day/night mode" which adjusts the brightness to the ambient light. This provides increased visibility during the day and avoidance of glare at night.



2XD 014 563-401



2XD 014 563-101



2XD 014 563-701



2XD 014 563-901



2XD 014 562-401



2XD 014 562-101



2XD 014 562-701



2XD 014 562-811



2XD 014 562-901

EMERGENCY & SIGNAL

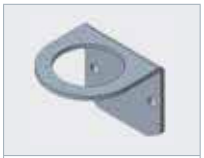
BST Round

The BST-Round warning light is characterised by its new round design which allows flexible installation in different areas of the vehicle. Four power LEDs and high-quality precision optics generate an intensive warning signal with minimum power consumption.

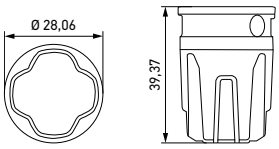
The warning lights are supplied as a set consisting of a controller, two flasher heads and two mounting rings. The power supply cable has an open end and the mounting rings and mounting brackets allow easy and flexible installation. The BST-Round warning light is extremely temperature resistant due to the high-quality aluminium housing and will operate in a temperature range of - 40°C to + 80°C. The warning lights have different flash patterns, e.g. single flash or double flash. Further details on the different flash sequences can be found in the assembly instructions.

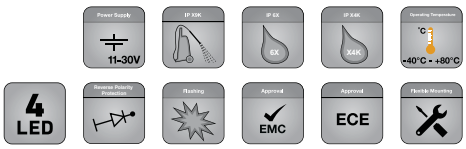






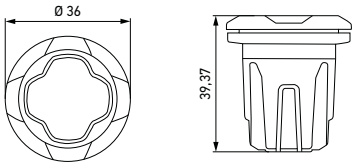
1 9XD 863 533-101



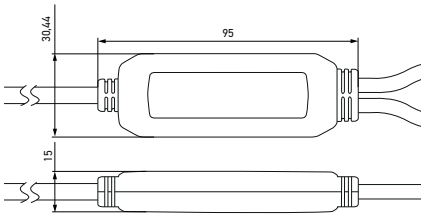


2XD 014 564-001	**BLUE**
2XD 014 564-211	**AMBER**
2XD 014 564-601	**RED**
2XD 014 564-801	**WHITE**
2XD 014 564-011	**BLUE/AMBER**
2XD 014 564-021	**BLUE/RED**
2XD 014 564-611	**RED/AMBER**

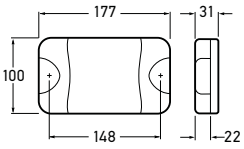
Housing	Aluminium
Operating Voltage	Multivolt 11 – 30 V DC
Current Consumption	27 – 33 W
Power Consumption	2.27 – 2.75 A (12 V) 1.13 – 1.37 A (24 V)
Temperature Range	- 40°C to + 65°C
Reverse Polarity Protection	Yes
Protection	Lighthead: IP 6X, IP X4K, IP X9K Controller: IP X7
Accessories	9XD 863 533-101 2 L-brackets 1
EMC Interference Immunity	ECE-R10, CISPR 25 Class 3
Type Approval	ECE R65 For 2XD 014 564-801: SAE J845 Class 1



BST-Round with mounting ring (grommet)



BST-Round – Controller

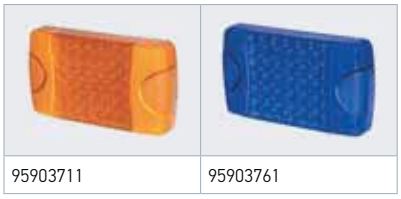


DuraLED Multi-flash Signal Warning Lamp

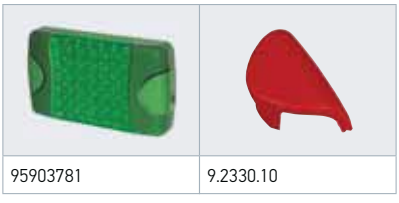
Multivolt™ Warning Lamps for emergency vehicles. The HELLA multi-flash range of Warning Lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.

95903701	2XD 959 037-012 – Surface Mount, MultiFLASH®, Multivolt	RED
95903711	2XD 959 037-112 – Surface Mount, MultiFLASH®, Multivolt	AMBER
95903761	2XD 959 037-612 – Surface Mount, MultiFLASH®, Multivolt	BLUE
95903781	2XD 959 037-812 – Surface Mount, MultiFLASH®, Multivolt	GREEN
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	9W continuous (less in flashing modes)	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Spare Parts	9.2330.10 Screw Cap Red (Pack of 4) 9.2330.16 Screw Cap Amber (Pack of 4) 9.2330.13 Screw Cap Green (Pack of 4) 9.2330.11 Screw Cap White (Pack of 4)	
Compliance	SAE J595 Class 1 (Red and amber versions) EMC e4 03 1925 ECE-R10	





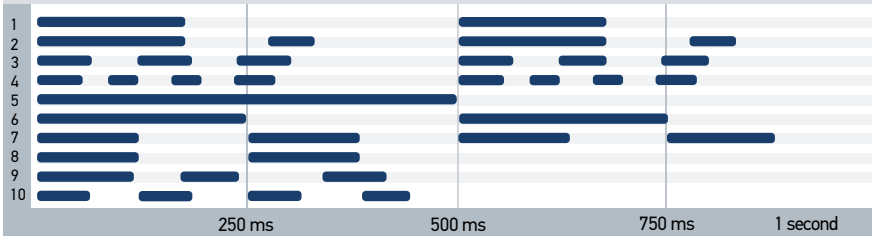
95903711 | 95903761



95903781 | 9.2330.10

HELLA MULTI-FLASH LAMP OPERATING MODES

Selectable Flash Patterns



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).

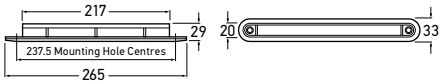
LED Wide Rim Strip Warning Lamp

Covert wide rim strip LED Signal Warning Lamp available in red and blue colour variants. Optic appears clear until illuminated. Includes gasket, screws and screw caps.





95907370



95907360	**2XD 959 073-602 – Recess Mount, 12 Volt DC**	**BLUE**
95907365	**2XD 959 073-652 – Recess Mount, 24 Volt DC**	**BLUE**
95907370	**2XD 959 073-702 – Recess Mount, 12 Volt DC**	**RED**
95907375	**2XD 959 073-752 – Recess Mount, 24 Volt DC**	**RED**

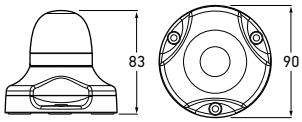
Mounting	Two hole recess mount. May be mounted horizontally or vertically	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of multi-core cable	
Spare Parts	9GD959155507 9HD959182007 9HD959182037	Wide Rim Seal Clear Screw Cap Black Screw Cap

This lamp requires an external flasher unit such as Part No. 3040. See page 81 for strip lamp accessories.

On/Off LED Warning Signal Lamps

Multi-purpose LED 360° Warning Lamps with nylon (PA12) lens available in four signal colours and white. Optics appear clear until illuminated.





98091004	2XA 980 910-042 – **Surface Mount, Multivolt**	**WHITE**
98091024	2XA 980 910-242 – **Surface Mount, Multivolt**	**GREEN**
98091044	2XA 980 910-442 – **Surface Mount, Multivolt**	**RED**
98091064	2XA 980 910-642 – **Surface Mount, Multivolt**	**AMBER**
98091074	2XA 980 910-742 – **Surface Mount, Multivolt**	**BLUE**
Mounting	Upright mounting with three point mount	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	5W	
Protection	Reverse polarity and voltage spike protection. IP 67 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	EMC e4 03 1679 ECE-R10	

See page 226 for multi-flash versions. This lamp requires an external flasher unit such as Part No. 3040.

LED 360º Multi-flash Signal Lamp

Multi-purpose LED 360º Warning Lamp with clear nylon (PA12) lens, available in four signal colours and white. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison. Optic appears clear until illuminated.



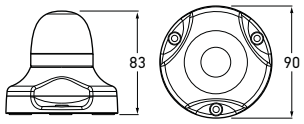




98091120	98091140



98091160	98091170





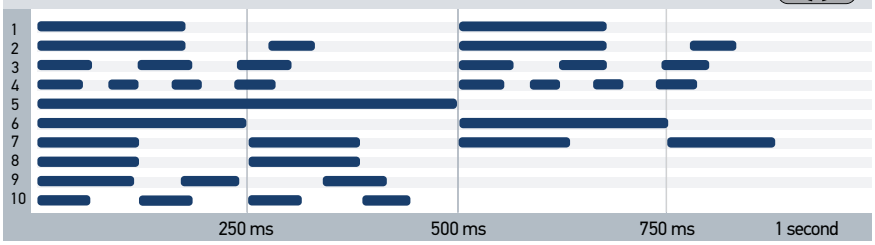
98091100	2XD 980 911-002 – Surface Mount, Multivolt	WHITE
98091120	2XD 980 911-202 – Surface Mount, Multivolt	GREEN
98091140	2XD 980 911-402 – Surface Mount, Multivolt	RED
98091160	2XD 980 911-602 – Surface Mount, Multivolt	AMBER
98091170	2XD 980 911-702 – Surface Mount, Multivolt	BLUE

Mounting	Upright mounting with three point mount
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC
Power Consumption	Less than 5W (less in flashing modes)
Protection	Reverse polarity and voltage spike protection. IP 67 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Lens Material	Nylon (PA12)
Compliance	EMC e4 03 1679 ECE-R10

Lamps shown illuminated (right).

HELLA MULTI-FLASH LAMP OPERATING MODES

Selectable Flash Patterns



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).

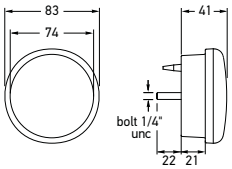
LED 83mm Round Multi-flash Signal Lamp

83mm diameter round LED Signal Lamps with single bolt mount for emergency vehicles. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.





95901145	95901160	95901165

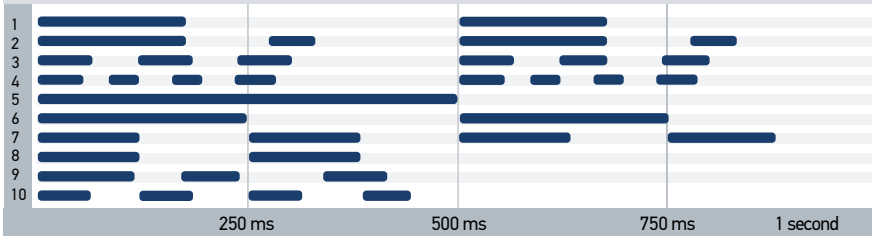


95901140	2XD 959 011-402 – Flush Mount, Multivolt	RED
95901145	2XD 959 011-452 – Flush Mount, Multivolt	AMBER
95901160	2XD 959 011-602 – Flush Mount, Multivolt	BLUE
95901165	2XD 959 011-652 – Flush Mount, Multivolt	GREEN
Mounting	Single bolt 1/4" stainless UNC thread. Nut and washer supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC	
Power Consumption	6W continuous (less in flashing modes)	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	EMC e4 03 1681 ECE-R10	

See page 79 for mounting accessories.

HELLA MULTI-FLASH LAMP OPERATING MODES

Selectable Flash Patterns



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).

Interior/Exterior Lighting

HELLA LED luminaires provide superior quality lighting solutions for reliable performance year after year.





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LED LIGHTING TECHNOLOGY - ENERGY EFFICIENT CRISP WHITE LIGHT

HELLA LED based luminaires are sophisticated opto-electronic devices designed to be highly energy efficient and durable, and are a future-proof, low 'Cost-of-Ownership' solution.



> "In depth design and engineering know how is required to produce durable products with reliable performance year after year."

LED based lighting is fast advancing to becoming the logical solution for the cost conscious operator who considers 'Cost-of-Ownership' rather than just the initial purchase price. To design efficient LED luminaires, many factors need to be considered. The LED itself, optics, optic materials, thermal design and drive electronics. These are among the many factors that add up to result in an efficient and durable luminaire.

Lens, Optic Technology and Eye Safety

To take advantage of the ever increasing efficacy of the most advanced LEDs, efficient optic design is essential to capture as much of the luminous flux emitted by the LED as possible. An evenly illuminated surface area is evidence of competent optic design. With significant advances in LED brightness, eye safety considerations are increasingly important.

For interior lights it is essential for high power LEDs to be coupled with optic designs that protect the eye's retina. It is desirable for a large portion of the lens area of a luminaire to be evenly illuminated via an efficient optic rather than using a bundle of LEDs without any optic. Easily visible LEDs inside a luminaire without any optic or lens protection can cause a degree or even significant eye discomfort if viewed directly.

A recent US Department of Energy (DOE) report warns of poorly designed LED luminaires, associating low frequency 'Flicker' with the possibility to trigger epileptic attacks in parts of the population that are susceptible.

Well designed LED lighting systems do carry a higher initial price compared to many other lamps now on offer. For most applications, higher efficiency and long term reliability of a competently designed and manufactured LED luminaire is a convincing Value Proposition.

Heat and Thermal Management

Competent and well engineered thermal management is essential for the long-term durability of HELLA LED luminaires. A common misconception is that LEDs do not generate heat. LEDs consume power and some of this power is also converted to heat, even in the most energy efficient LEDs.

In contrast to incandescent lamps however, LEDs do not like to 'run hot'. As a rule of thumb the hotter an LED runs, the faster it will degrade and in extreme cases result in a much lower light performance and shorter service life.

A noticeably 'hot to touch' exterior surface of a high power LED interior lamp provides some indication that the light output of the device will deteriorate fast, sometimes within a few hundred hours. Well engineered LED devices will operate 'cool' or 'warm' to the touch after many hours of operation. HELLA has many years of technical expertise in developing good thermal designs, when matched with superior optics and electronic design it ensures the long term durability of all our LED lighting products with minimal degradation over many years of service.

Highly efficient white LED luminaires are becoming a solution that make ecological and economic sense for an ever increasing range of applications.







Reliability

Due to the solid state nature of LEDs there are no filaments to break, however LEDs do require precise current control, overvoltage and spike protection to avoid any premature damage.

For LED luminaire designers and manufacturers, in depth design and engineering know how is required to produce durable products with reliable performance year after year.

Considerations such as hermetically sealed housings, sealed cable entries, effective electronic protection, shock, vibration and impact resistant components all contribute towards long term reliability. Compared to incandescent lighting, where a filament inside a globe may break at any moment, HELLA LED lighting is designed as a reliable Fit and Forget solution.

Colour Temperature and Rendering

LED based lighting has had a reputation for appearing 'cold' and 'blue' due to their phosphorous coating technology.

However today's high efficacy devices can rival traditional incandescent light sources for colour and ambience. When selecting LED interior lighting, colour temperature is an important consideration.

1850 K	Candle
2800 K	Halogen Globe (Incandescent Lamp)
2500-3200 K	Warm White LED
4600K-5600 K	Crisp White LED
6500 K	Daylight

Colour temperature is measured in Kelvin (K) and describes the effect of heating an object until it glows incandescently. The emitted radiation, and apparent colour changes in proportion to the temperature; envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

HELLA describes higher colour temperatures (4600 K to 5600 K) as 'crisp white' and lower colour temperatures as 'warm white'.

'Neutral white' is considered around 4200 K range. Crisp white is recommended for visual tasks, work areas and exterior lighting.

Warm white is suggested for interior spaces as it adds life and vibrancy to people and objects. It is considered more flattering to skin tones or fabrics and makes food look fresh and attractive.

NEW DIMMABLE LOGOS WHAT DO THEY MEAN?

Logos used throughout the Interior/Exterior section to help quick referencing of important product features are explained below.

Dimmable: Analog DC Input

Light intensity is reduced as the DC input voltage is reduced below the lamps specified operating voltage.

Dimmable: Internal Dimmer

Light intensity is controlled through the lamp's own internal circuitry via in-built buttons, an external DC power source and a standard switch. See specific lamp instructions for further information.

Dimmable: PWM 10-100%

Light intensity is adjusted between 10-100% using a high frequency PWM (pulse width modulation) DC power supply, with adjustable duty cycle control.

Dual Intensity: Switch Control

Light intensity can be switched between 100% and a lower level factory pre-set value, usually via an additional cable input supplied with the lamp using a positive feed from the DC power supply within the lamps operating voltage range.

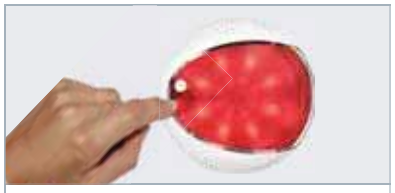
EuroLED® White/Red Touch Lamps

Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white or red pads for on/off, hold finger to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.

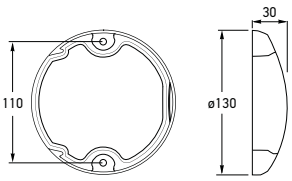




2JA 959 950-121



EuroLED® Touch red night light function shown



Dimmable: Internal Dimmer

Power Supply MULTI VOLT

2JA 959 950-111 - Black Shroud	WHITE/RED
2JA 959 950-121 - White Shroud	
Mounting	Two hole surface mount with mounting bushes supplied
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	White: 4W Red: 1.5W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White
Compliance	CE

See page 78 for EuroLED® accessories.



8HG 959 952-002



8HG 959 952-012

EuroLED®

Advanced LED Lamps with touch sensitive switching. Power saving and ultra durable.

Lighting control is beautifully simple. Touch the colour pad for red light and the white pad for white light. On the dual colour versions, hold your finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release your finger on the light level required.

Dual colour EuroLED® Touch lamps can also be remotely operated from multiple points with 'off the shelf' ON/OFF/ON momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same dimming level.

Light levels are 'remembered' by the lamps circuitry, even when a vehicle's batteries are turned off.



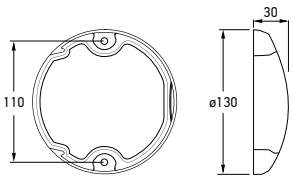
Designed and manufactured in New Zealand, EuroLED® Touch lamps provide red/white, or white only light using the latest completely sealed touch sensitive technology.



The lamp will always turn on at the colour intensity previously set, regardless of power interruption.

EuroLED® Touch power consumption is 4W on white (0.33A @ 12V) and less than 1.5W on red (less than 0.125A @ 12V) to provide significant power savings.

The durability of EuroLED® Touch Lamps is outstanding. Each lamp is completely waterproof, impact and shock resistant, for an ultra long service life. Multivolt circuitry provides optimum brightness across a range of input voltages from 9-33V DC, even under severe voltage fluctuations.



EuroLED® White Touch Lamps

White single LED lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. Provides ultra-long service life and is shock and vibration proof.





2JA 959 950-561

2JA 959 950-551 - Black Shroud **2JA 959 950-561** - White Shroud	WHITE
Mounting	Two hole surface mount with mounting bushes supplied
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White
Compliance	CE

See page 78 for EuroLED® accessories.

EuroLED® Lamp

White single LED Lamp with clear lens. Provides ultra long service life and is shock and vibration proof. Includes a black and a white rim. No switching or dimming.



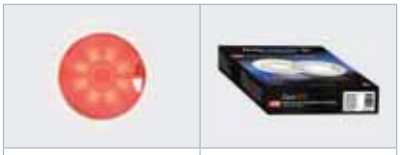
95982050	2JA 959 820-502	WHITE
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White	
Compliance	CE	

See page 78 for EuroLED® accessories.

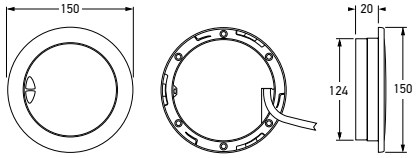
EuroLED® Touch 150 Downlights - Dual Colour

Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white pad for on/off, hold finger on the pad to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.





Red function | Packaging



Dimmable: Internal Dimmer

Power Supply MULTI VOLT

2JA 980 630-001 - White Plastic Rim	WHITE/RED
2JA 980 630-011 - Polished Stainless Steel Rim	
2JA 980 630-101 - White Plastic Rim	WARM WHITE/RED
2JA 980 630-111 - Polished Stainless Steel Rim	
Mounting	Recess mount, 124mm hole
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	White: 4W Red: 1.5W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable
Compliance	CE

EuroLED® Touch 150 Downlights - Single Colour

White single LED Lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. No dimming. Provides ultra long service life and is shock and vibration proof.





2JA 980 630-601 | Packaging



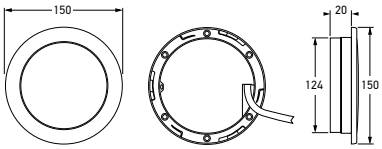
Sealed cable entry

Power Supply MULTI VOLT

2JA 980 630-501 - White Plastic Rim	WHITE
2JA 980 630-511 - Polished Stainless Steel Rim	
2JA 980 630-601 - White Plastic Rim	WARM WHITE
2JA 980 630-611 - Polished Stainless Steel Rim	
Mounting	Recess mount, 124mm hole
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable
Compliance	CE

EuroLED® 150 Downlights

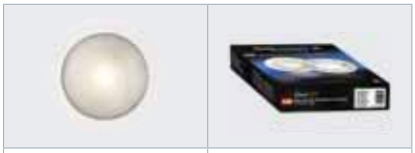
White single LED Lamp with clear lens. Provides ultra long service life and is shock and vibration proof. No switching or dimming.



Power Supply MULTI VOLT

2JA 980 631-501 - White Plastic Rim	WHITE
2JA 980 631-511 - Polished Stainless Steel Rim	
2JA 980 631-601 - White Plastic Rim	WARM WHITE
2JA 980 631-611 - Polished Stainless Steel Rim	
Mounting	Recess mount, 124mm hole
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable
Compliance	CE

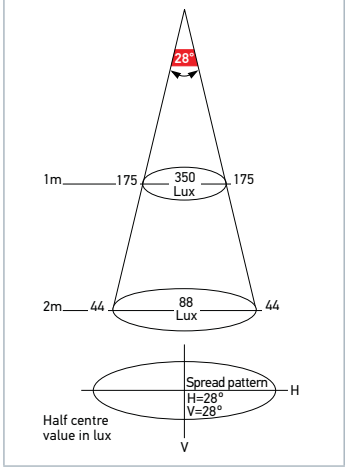




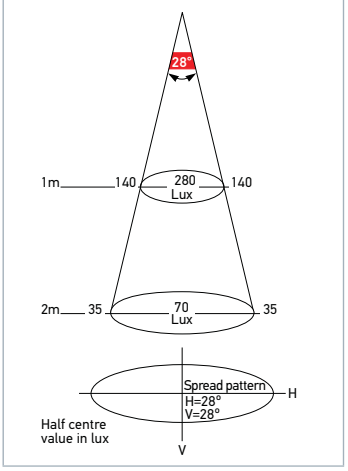
2JA 980 631-601 | Packaging

ILLUMINATION CHARTS

EuroLED® 150 - White



EuroLED® 150 - Warm White



Illumination Charts Explained

Our light performance charts show luminance and spread in an easy to read format. At the top is the spread, with the boundary threshold being defined as half the peak luminance. While there is light beyond the indicated angles, the majority of light will be inside the cone shown.

The difference between lux (illuminance) and lumen (luminous flux) is that lux takes into account the area over which the luminous flux is spread. Accordingly the lux figure decreases with distance. Most interior lamps will be installed at around the 2-2.5 metre height.

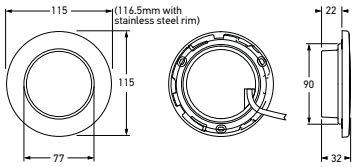
As a guideline, some 40-100 lux is required for corridors and passageways, around 300 lux for reading and 500-800 lux for offices.

The spread pattern may not be designed symmetrical so the spread horizontally (H) and vertically (V) are given.

Luminance is additive, meaning overlapping light patterns or multiple lamps lighting the same surface add their luminance.

EuroLED® 115 Downlights - With White Spacer

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



Dimmable: PWM 10-100%

Power Supply MULTI VOLT





2JA 980 820-102 | Sealed cable entry

2JA 980 820-002 - White Plastic Rim	WHITE
2JA 980 820-012 - Polished Stainless Steel Rim	
2JA 980 820-102 - White Plastic Rim	WARM WHITE
2JA 980 820-112 - Polished Stainless Steel Rim	
Mounting	Recess mount, 90mm hole. Surface mount via optional spacer
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts
Power Consumption	4.5W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable
Compliance	CE

EuroLED® 115 Downlights - With White Spacer and Switch

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.

Dimmable: PWM 10-100%

Power Supply MULTI VOLT





2JA 980 828-112 | Blister packaging

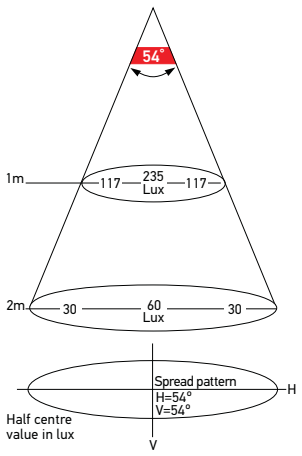
2JA 980 828-002 - White Plastic Rim	WHITE
2JA 980 828-012 - Polished Stainless Steel Rim	
2JA 980 828-102 - White Plastic Rim	WARM WHITE
2JA 980 828-112 - Polished Stainless Steel Rim	
Mounting	Recess mount. Surface mount via spacer
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts
Power Consumption	4.5W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE



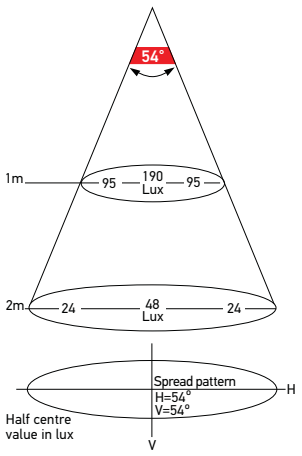
EuroLED® 115 Downlights with switch, expanded view.

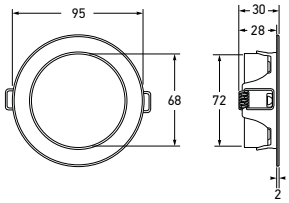
ILLUMINATION CHART

EuroLED® 115 - White



EuroLED® 115 - Warm White





Power Supply MULTI VOLT

Dimmable: PWM 10-100%

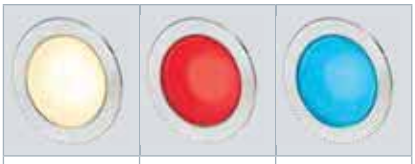
EuroLED® 95 Gen 2 Round Down Lights - Recess Mount With Spring Clip

The next generation of LED high intensity down lights offers an improved class leading efficiency and durability. The smooth diffused lens creates a comfortable and uniform appearance with over 420 lumens of actual light in a broad and even illumination.

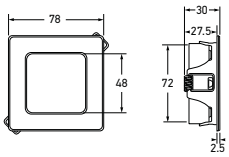


2JA 958 340-011	WHITE
2JA 958 340-101	WHITE/RED
2JA 958 340-111	WHITE/BLUE
2JA 958 340-021	WARM WHITE
2JA 958 340-121	WARM WHITE/RED
2JA 958 340-131	WARM WHITE/BLUE

Mounting	Recess mount, 76mm diameter hole. Spring clip.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts
Power Consumption	6W
Protection	IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 120mm of cable
Compliance	CE



Warm White	Red - Secondary colour	Blue - Secondary colour



Power Supply MULTI VOLT

Dimmable: PWM 10-100%

EuroLED® 95 Gen 2 Square Down Lights - Recess Mount With Spring Clip

The next generation of LED high intensity down lights offers an improved class leading efficiency and durability. The smooth diffused lens creates a comfortable and uniform appearance with over 420 lumens of actual light in a broad and even illumination.



2JA 958 340-511	WHITE
2JA 958 340-601	WHITE/RED
2JA 958 340-611	WHITE/BLUE
2JA 958 340-521	WARM WHITE
2JA 958 340-621	WARM WHITE/RED
2JA 958 340-631	WARM WHITE/BLUE

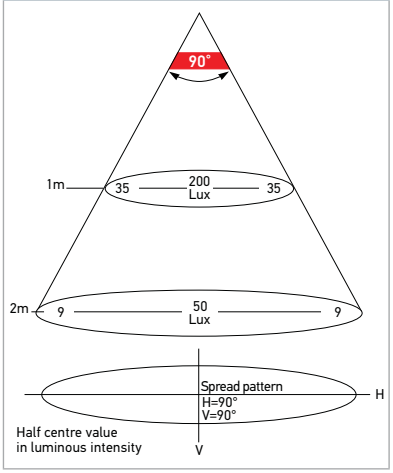
Specifications as per 2JA 958 340-011 above.



Warm White	Red - Secondary colour	Blue - Secondary colour

ILLUMINATION CHART

EuroLED® 95 - White/Warm White



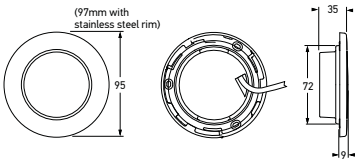
EuroLED® 95 Downlights - Recess Mount

Round LED high Intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.





2JA 980 940-111	Packaging



Power Supply MULTI VOLT

Dimmable: PWM 10-100%

2JA 980 940-001 - White Plastic Rim	WHITE
2JA 980 940-011 - Polished Stainless Steel Rim	
2JA 980 940-101 - White Plastic Rim	WARM WHITE
2JA 980 940-111 - Polished Stainless Steel Rim	

Mounting	Recess mount, 72mm hole. Screw mount.
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable
Compliance	CE

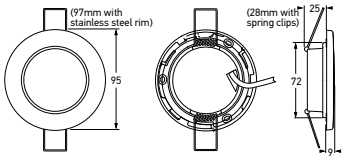
EuroLED® 95 Downlights - Recess Mount With Spring Clip

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.





2JA 980 940-311	Packaging



Power Supply MULTI VOLT

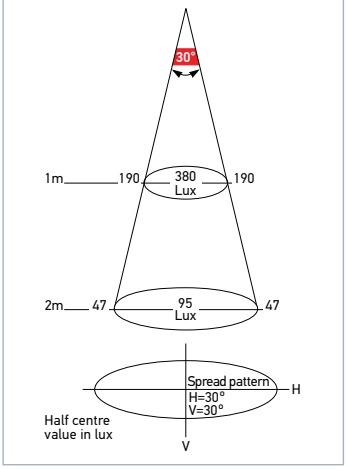
Dimmable: PWM 10-100%

2JA 980 940-201 - White Plastic Rim	WHITE
2JA 980 940-211 - Polished Stainless Steel Rim	
2JA 980 940-301 - White Plastic Rim	WARM WHITE
2JA 980 940-311 - Polished Stainless Steel Rim	

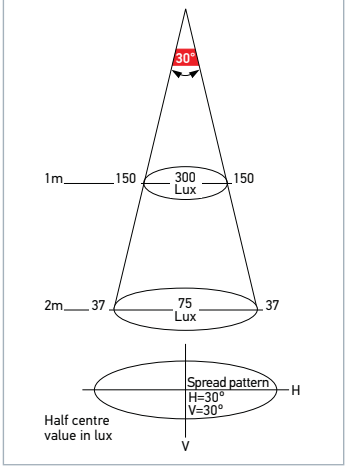
Mounting	Recess mount, 72mm hole. Spring clip.
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable
Compliance	CE

ILLUMINATION CHART

EuroLED® 95 - White



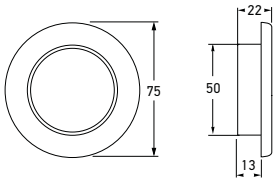
EuroLED® 95 - Warm White



Dimmable: PWM 10-100%

RF CommSafe

Dimmable: Analog DC Input



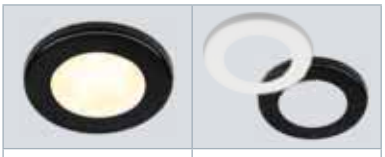
EuroLED® 75 Down Lights - Recess Mount

This Downlight features the latest in LED technology and is available in two white colour temperatures. Both the cool white and the warm white option feature a smooth, evenly distributed illumination and an optic specifically designed to reduce individual light source glare, which can lead to discomfort and eye strain. Each Downlight includes a black and a white plastic rim.

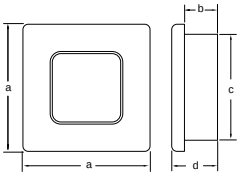
2JA 958 110-031 - 12 Volt DC	WHITE
2JA 958 110-131 - 24 Volt DC	
2JA 958 109-031 - 12 Volt DC	WARM WHITE
2JA 958 109-131 - 24 Volt DC	
Mounting	Recess mount, 50mm diameter hole
Voltage	12V DC or 24V DC
Power Consumption	<3W
Protection	IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 130mm of cable
Supplied Rims	95950590 Black plastic rim - EuroLED® 95 95950585 White plastic rim - EuroLED® 95
Compliance	

Additional rims and housings are available see page 257.





2JA 958 109-031 | Black and white supplied plastic rims



Dimensions
a = 60.0 mm / 2.36"
b = 16.0 mm / 0.63"
c = ø50.0 mm / ø1.97"
d = 22.0mm / 0.87"

EuroLED® 75 Square Down Lights

EuroLED® 75 LED down lights offer style, performance and energy efficiency for interior and exterior applications, provide long lasting, reliable illumination for your vessel.

Available in warm white and white, these lamps have a high colour rendering index of 85+ (CRI), offering exceptional colour rendering of objects and surfaces to beautifully enhance the materials of your vessel.

With an impressive output of 190 lumen and a diffused lens, they create a bright, broad and even illumination.

2JA 015 014-021 - Chrome Plated Trim, 12 Volt DC	WHITE
2JA 015 014-011 - White Plastic Trim, 12 Volt DC	
2JA 015 014-121 - Chrome Plated Trim, 24 Volt DC	
2JA 015 014-111 - White Plastic Trim, 24 Volt DC	
2JA 015 014-221 - Chrome Plated Trim, 12 Volt DC	WARM WHITE
2JA 015 014-211 - White Plastic Trim, 12 Volt DC	
2JA 015 014-321 - Chrome Plated Trim, 24 Volt DC	
2JA 015 014-311 - White Plastic Trim, 24 Volt DC	
Mounting	Screw
Voltage	12V DC (9-16V DC) 24V DC (18-33V DC)
Power Consumption	3W (<0.19A @ 12V DC) 3W (<0.09A @ 24V DC)
Protection	IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 120mm tinned marine cable

White Plastic Trim - Warm white

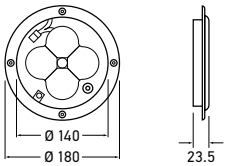


Chrome Plated Trim - White

CargoLED Interior Lamp

Universal LED Interior Lamp featuring state of the art design and robust construction. Equipped with advanced Luxeon Power LED technology and clear acrylic lens for optimum light distribution without glare. The dust-proof housing is made from high quality aluminium and ABS ensuring maximum durability and long service life, even in extremely cold or humid environments. Fully sealed to withstand high-pressure washing.



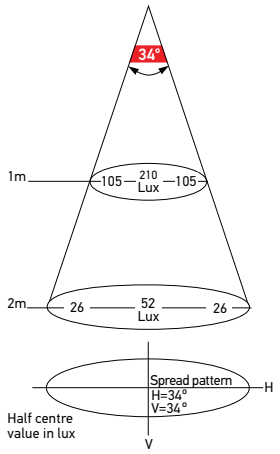


Power Supply MULTI VOLT

2604	2JB 344 227-001	WHITE
Mounting	Flush Mount	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts	
Power Consumption	6W	
Temperature Range	-40°C to + 60°C	
Protection	Fully sealed against dust and moisture to IP69	
Cable Length	Pre-wired with 310mm of sheathed multi-core cable	
Compliance		

ILLUMINATION CHART

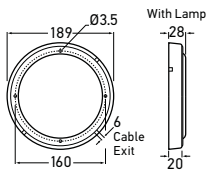
2604



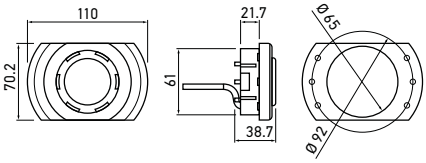
CargoLED Mounting Spacer

Mounting Spacer designed to suit all CargoLED interior lamps. Enables surface mount with side cable exit.





9.2604.05	9XD 344 118-102



Power Supply
MULTI VOLT

2647	2JA 343 700-272	WHITE
Mounting	Surface Mount. Suitable for horizontal and vertical installation (screw caps included)	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts	
Power Consumption	LED 2.5W CELIS® 0.5W	
Protection	Sealed against dust to IP3X	
Cable Length	Pre-wired with 200mm of sheathed multi-core cable	
Compliance		

SpotLED Blue CELIS® Interior Lamp – Adjustable

Adjustable LED Spotlight featuring impact-resistant Polycarbonate lens and advanced LED technology for superior light distribution. The modern blue CELIS® light ring provides additional ambient illumination. Adjustable spot with 20-degree angle to each side.

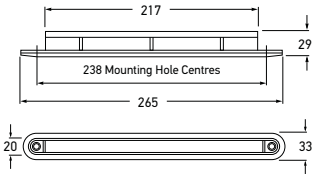




Blue CELIS® - Adjustable light ring

LED White Interior/Exterior Strip Lamps

White LED Interior Lamp with clear UV-resistant acrylic lens. Ideal for steps, interior or exterior courtesy lighting and storage areas.



Dimmable: Analog DC Input

RF CommSafe



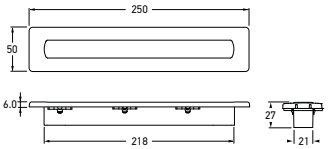


2641HB

2641-12V	2JA 959 073-011 - 12 Volt DC	WHITE
2641-24V	2JA 959 073-211 - 24 Volt DC	
2641HB-12V	2JA 959 076-501 - 12 Volt DC	HIGH BRIGHTNESS WHITE
2641HB-24V	2JA 959 076-631 - 24 Volt DC	
Mounting	Recess mount	
Power Consumption	<2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Spare Part	959 155-507 Gasket	

LED Interior/Exterior Strip Lamps

LED Lamp with clear UV impact-resistant lens and attractive stainless steel cover. Stainless steel bezel features a unique internal tab lock for secure attachment and no visible fastenings.



Dimmable: Analog DC Input

RF CommSafe



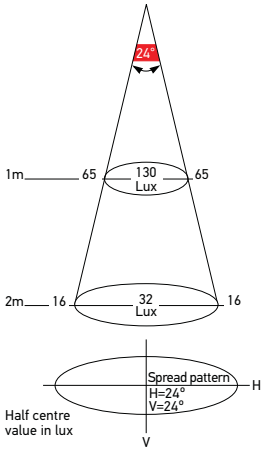


Shown expanded

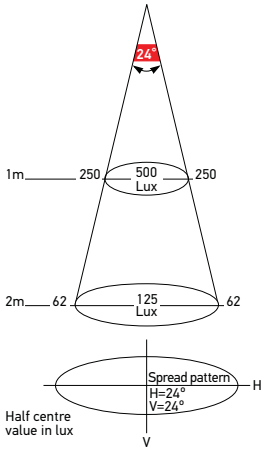
2651	2JA 980 681-012 - 12 Volt DC	WHITE
2651-24V	2JA 980 681-512 - 24 Volt DC	
Mounting	Recess mount	
Power Consumption	<2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	

ILLUMINATION CHARTS

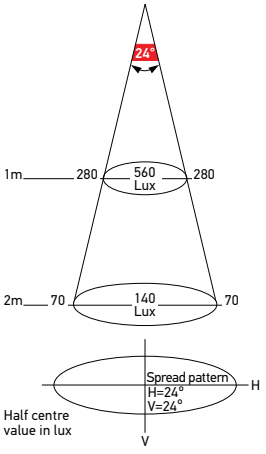
2641/2641-24V



2641HB/2641HB-24V



2651/2651-24V



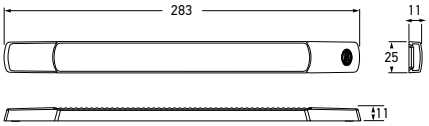
LED Interior/Exterior Strip Lamps - Surface Mount

LED Lamp featuring a soft white colour temperature and diffused lens for an evenly spread light. Fully sealed for complete protection against water and dust ingress. Includes charcoal and white screw caps.





2652WW



RF CommSafe

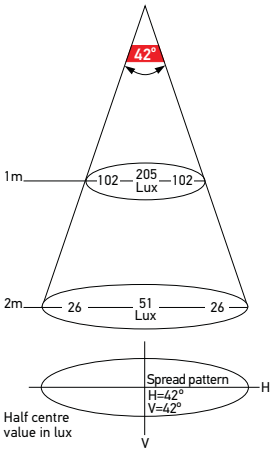
Dimmable: Analog DC Input

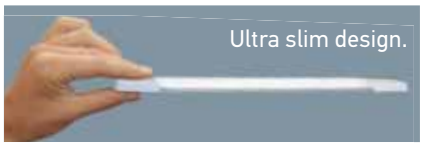
2652	**2JA 958 124-021 - 12 Volt DC**	WHITE
2652-24V	**2JA 958 124-421 - 24 Volt DC**	
Mounting	Surface mount	
Power Consumption	<3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	

See page 80 for surface mount strip lamp screw caps.

ILLUMINATION CHART

2652/2652-24V





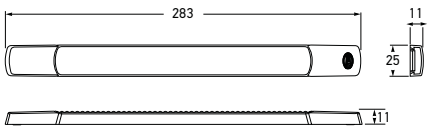
LED Courtesy Strip Lamps - Surface Mount

These LED Courtesy Surface Mount Strip Lamps feature a shallow 11mm profile and completely sealed housings. Available in blue and red colour variants.





2JA 980 881-602



RF CommSafe

Dimmable: Analog DC Input

2JA 980 881-402 - 12 Volt DC		BLUE
2JA 980 881-502 - 24 Volt DC		
2JA 980 881-602 - 12 Volt DC		RED
2JA 980 881-702 - 24 Volt DC		
Mounting	Surface mount	
Power Consumption	<2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable	

See page 80 for surface mount strip lamp screw caps.

LED Interior/Exterior Strip Lamps with Sealed Switch - Surface Mount

These LED interior surface mount strip lamps with sealed waterproof switch feature a shallow 11mm profile, completely sealed housings and class leading efficiency. The range is ideal for a wide range of interior or exterior applications.





Switch



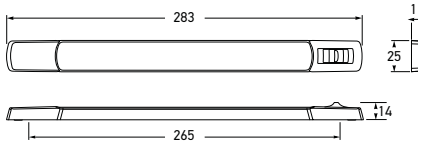
2JA 958 121-011
White/Blue



2JA 958 121-001
White/Red



Ultra slim height of only 11mm.



Dimmable:
Analog DC Input

RF CommSafe

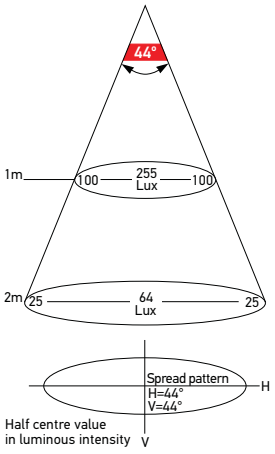
2652-SW	2JA 958 123-021 - 12 Volt DC	WHITE
2652-SW24V	2JA 958 123-421 - 24 Volt DC	
2JA 958 121-011 - 12 Volt DC		WHITE/BLUE
2JA 958 121-411 - 24 Volt DC		
2JA 958 121-001 - 12 Volt DC		WHITE/RED
2JA 958 121-401 - 24 Volt DC		

Mounting	Surface mount	
Power Consumption	White function: <3W	Colour function: <1W
Protection	As per Part No. 2652	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Dual colour lamps are pre-wired with 0.5m of twin core cable.	
Spare Parts	9.2652SW.09 9.2652SW.10	1 White switch screw cap + 1 white standard screw cap 1 Charcoal switch screw cap + 1 charcoal standard screw cap

Note: 2652-SW and 2652-SW24V includes charcoal and white screw caps.
2JA 958 121-011, 2JA 958 121-411, 2JA 958 121-001, 2JA 958 121-401 include white screw caps only.

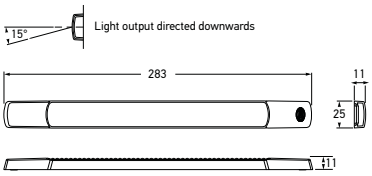
ILLUMINATION CHART

2652-XXX / 2JA 958 121-XXX



LED Interior/Exterior Awning Strip Lamps – Surface Mount - 15° Spread

LED Awning Lamp with an ultra slim profile of only 11mm, a heavy duty nylon (PA12) lens and low power consumption of less than 3W, HELLA's new LED Awning Lamp is ideal for interior and exterior use. It comes complete with charcoal as well as white end caps and can be accessorised with a matching 45° mounting bracket to angle the beam further. Combining state of the art technology with sophisticated looks, this new low profile LED Awning Lamp is a lighting solution which will find many applications. The precision optic, with a 15° downwards spread pattern, is designed to cause minimum glare.



Dimmable: Analog DC Input

RF CommSafe

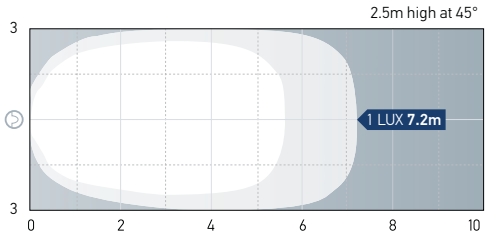
Lens Material GMD

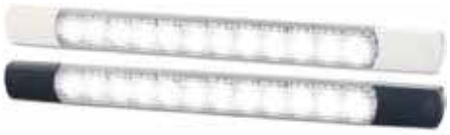
98087900	2JA 980 879-001 - 12 Volt DC	WHITE
98087910	2JA 980 879-101 - 24 Volt DC	
Mounting	Mounting Two hole surface mount	
Power Consumption	<3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of twin core cable	
Lens Material	Nylon (PA12)	
Spare Parts	8HG 958 000-021 8HG 958 000-011	Mounting bracket 45° - Charcoal Mounting bracket 45° - White

See page 80 for surface mount strip lamp screw caps.

ILLUMINATION CHARTS

98087900/...10





	
8HG 958 000-021	8HG 958 000-011



DuraLED® Combi-S 50 White LED Lamps

DuraLED® Combi-S 50 White LED lamps are an extremely powerful source of white light and are available in two light patterns, Spread and Wide Spread, to suit a variety of uses including engine rooms, storage lockers or other heavy duty applications where reliability cannot be compromised. Each lamp is completely sealed, UV, impact and shock resistant ensuring an ultra-long service life.



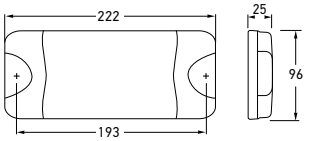




2JA 980 629-001



Ultra slim height of only 25mm.

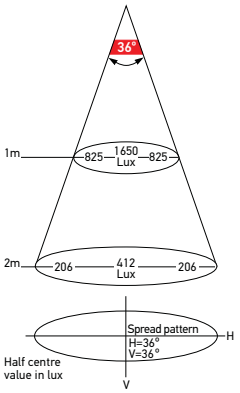


Power Supply MULTI VOLT™

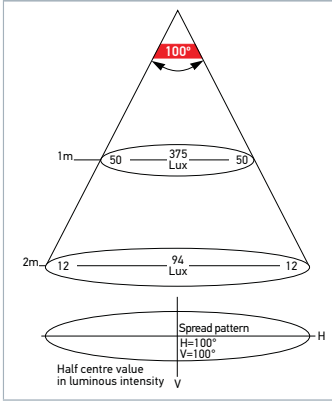
2JA 980 629-501	WIDE SPREAD
2JA 980 629-001	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts
Power Consumption	<12W
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of cable
Compliance	

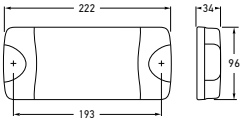
ILLUMINATION CHARTS

2JA 980 629-001



2JA 980 629-501



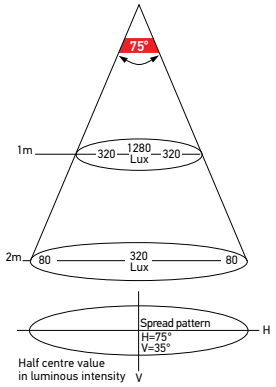


Lens Material GMD | 50 LED | Power Supply MULTI VOLT

98060403	2JA 980 604-032 – Charcoal Lens	WIDE SPREAD
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	<12W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Accessories	98071900 Mounting spacer - Black 98071901 Mounting spacer - White	
Lens Material	Nylon (PA12)	
Compliance	CE	

ILLUMINATION CHART

98060403



DuraLED® Combi 50 LED Lamp

White high brightness LED Lamp with nylon (PA12) lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<12 watts) and low heat. Spread light is suitable for general area lighting. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.

LIFETIME DuraLED® WARRANTY

LENS MATERIAL GRILAMID® SWISS MADE





98071900



98071901

Suitable for all DuraLED® Combi Lamps, see page 16.

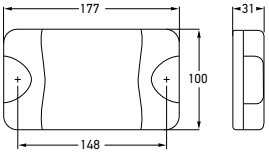
DuraLED® White 36 LED Lamps

White high brightness LED lamp with nylon (PA12) lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<9 watts) and low heat. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.





9593721



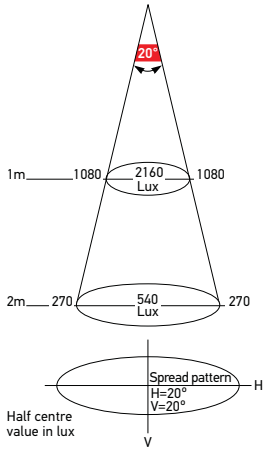
Power Supply MULTI VOLT | 36 LED | Lens Material GMD

95903741	2JA 959 037-412 – Charcoal Lens	NARROW
95903720	2JA 959 037-202 – White Lens	SPREAD
95903721	2JA 959 037-212 – Charcoal Lens	
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	<9W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	CE	

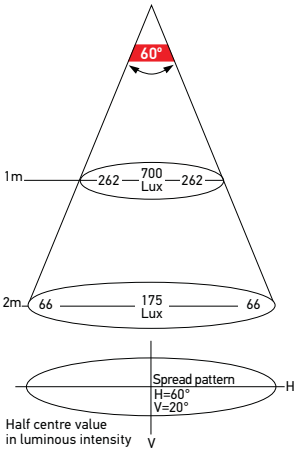
See page 76 for DuraLED® accessories.

ILLUMINATION CHARTS

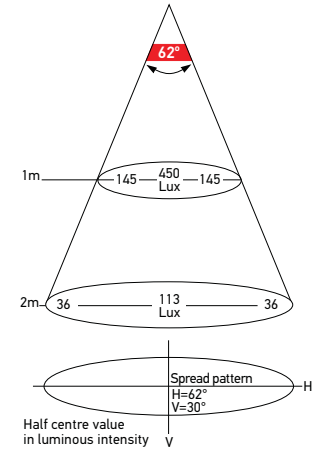
DuraLED® 36 LED - Narrow



DuraLED® 36 LED - Spread

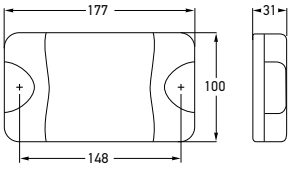


DuraLED® 36 LED - Diffused



DuraLED® White 36 LED Lamps

White LED Interior Lamp with either a diffusion or clear acrylic lens. The lamps are shock and vibration proof and are fully sealed against dust and moisture ingress.



36 LED | Power Supply MULTI VOLT

2JA 959 037-501	DIFFUSED
2JA 959 037-511	SPREAD

Mounting	Two hole surface mount with mounting bushes supplied
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts
Power Consumption	<9W
Protection	See DuraLED® White 36 LED Lamp above
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable
Lens Material	Acrylic
Compliance	CE

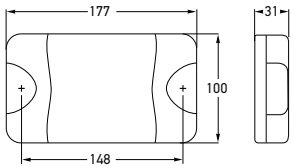




2JA 959 037-511

DuraLED® 20 LED Wide Spread Lamp

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<5 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.



20 LED | Power Supply MULTI VOLT

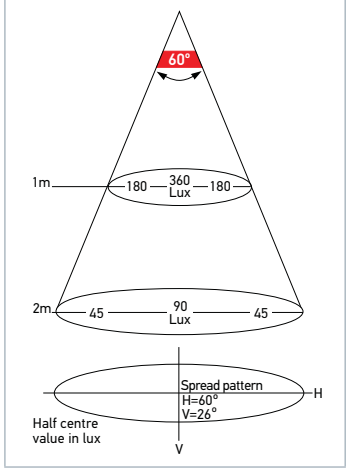
98060801	2JA 980 608-112	WHITE
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	5W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Compliance	CE	

See page 76 for DuraLED® accessories.



ILLUMINATION CHARTS

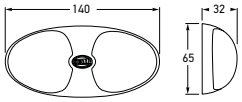
DuraLED® 20 LED



DuraLED® White 12 LED Wide Spread Lamp

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<3 watts) and low heat.
The lamp is fully sealed against dust and moisture ingress.



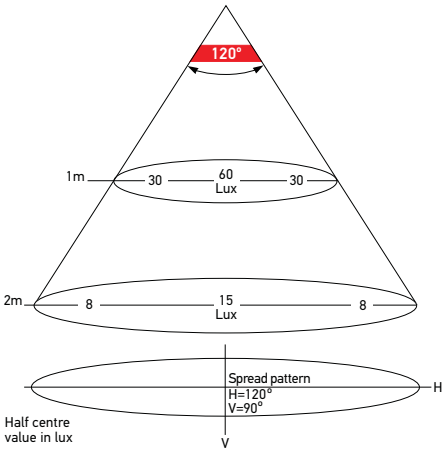


Visibility Optic: Wide | 12 LED | Power Supply: MULTI VOLT

95970010	2JA 959 700-112 – White Shroud	WHITE
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<3W	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	CE	

ILLUMINATION CHARTS

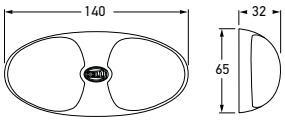
DuraLED® 12 LED



DuraLED® White 12 LED Wide Spread Lamps

Multi-purpose LED Lamps offering class leading efficiency and durability.





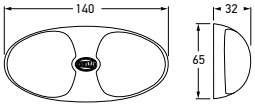
Power Supply: MULTI VOLT | 12 LED | Visibility Optic: Wide

2JA 959 700-121 - Black Shroud		WHITE
2JA 959 700-711 - Black Shroud		WARM WHITE
Mounting	Two hole surface mount with mounting bushes supplied	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<3W	
Colour Temperature	5000K (White) / 3000K (Warm White)	
Temperature Range	-40°C to +60°C	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable	
Compliance	CE	

DuraLED® White 12 LED Wide Spread Lamps with Switch

Multi-purpose LED lamps offering class leading efficiency and durability





2JA 980 704-001 - White Shroud	WHITE
2JA 980 704-021 - Black Shroud	WHITE
2JA 980 704-501 - White Shroud	WARM WHITE
2JA 980 704-521 - Black Shroud	WARM WHITE

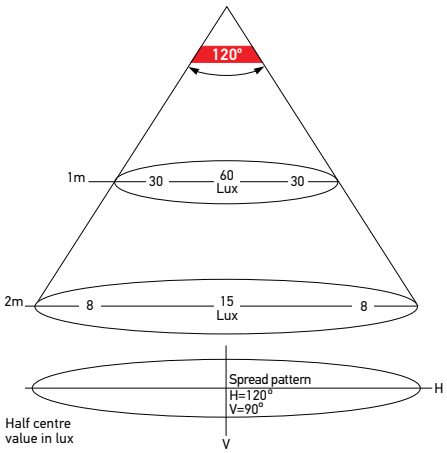
Mounting	Two hole surface mount with mounting bushes supplied
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems
Power Consumption	<3W
Colour Temperature	5000K (White) / 3000K (Warm White)
Temperature Range	-40°C to +60°C
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable
Compliance	CE



Switch

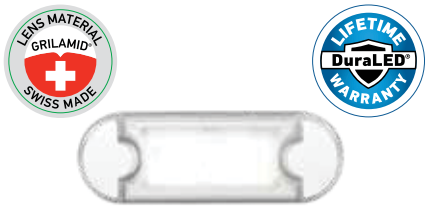
ILLUMINATION CHARTS

DuraLED® 12 LED - Wide Spread Lamp/...with Switch

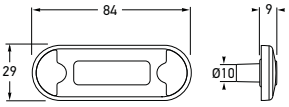


DuraLED® Surface Mount Courtesy Lamps - Low Profile

These LED Courtesy Lamps feature a shallow 9mm profile and completely sealed housing. Available in a range of colours. Optic appears clear until illuminated.







98085510	2XT 980 855-101	WHITE
98085515	2XT 980 855-151	WARM WHITE
98085525	2XT 980 855-251	AMBER
98085535	2XT 980 855-351	RED
98085540	2XT 980 855-401	BLUE
98085550	2XT 980 855-501	GREEN
Mounting	Two hole surface mount	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance		

DuraLED® Surface Mount Courtesy Lamp Accessories

Accessory Rims and Screw Caps for the LED surface mount courtesy lamp family.





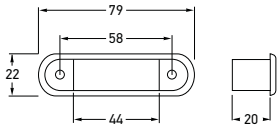
RIMS		
95968500	9AB 959 685-002 – 316 Stainless Steel	POLISHED
95968506	9AB 959 685-062 – 316 Stainless Steel	SATIN CHROME PLATED

SCREW CAPS		
9.2310.09BULK	9HD 980 858-007 – Pack of 4	BLACK
9.2310.10BULK	9HD 980 858-037 – Pack of 4	RED
9.2310.11BULK	9HD 980 858-017 – Pack of 4	WHITE
9.2310.12BULK	9HD 980 858-067 – Pack of 4	BLUE
9.2310.13BULK	9HD 980 858-057 – Pack of 4	GREEN
9.2310.16BULK	9HD 980 858-027 – Pack of 4	GREY



LED Narrow Rim Rectangular Courtesy Lamps

Narrow Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.





95951040	2XT 959 510-402 – 12/24 Volt, Clear lens	WHITE
95951015	2XT 959 510-152 – 12/24 Volt, Clear lens	GREEN
95951025	2XT 959 510-252 – 12/24 Volt, Clear lens	BLUE
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Compliance	CE	

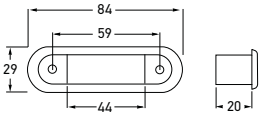
Dimmable: Analog DC Input



95951031	2XT 959 510-312 – 12 Volt DC	RED
95951033	2XT 959 510-332 – 24 Volt DC	
95951001	2XT 959 510-012 – 12 Volt DC	AMBER
95951006	2XT 959 510-062 – 24 Volt DC	
Mounting	Recess mount	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 120mm of cable	

LED Wide Rim Rectangular Courtesy Lamps

Wide Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.





95951080	2XT 959 510-802 – Clear lens	WHITE
95951095	2XT 959 510-952 – Clear lens	GREEN
95951065	2XT 959 510-652 – Clear lens	BLUE
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Compliance	CE	

Dimmable: Analog DC Input



95951071	2XT 959 510-712 – 12 Volt DC	RED
95951073	2XT 959 510-732 – 24 Volt DC	
95951051	2XT 959 510-512 – 12 Volt DC	AMBER
95951053	2XT 959 510-532 – 24 Volt DC	
Mounting	Recess mount	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 120mm of cable	

See page 77 for spare parts and accessories.

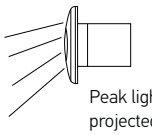
LED Wide Rim Rectangular Courtesy Step Lamps

Wide Rim, Flush Mount, Courtesy Step Lamp with either white, red, green or blue LEDs. Optic appears clear until illuminated.

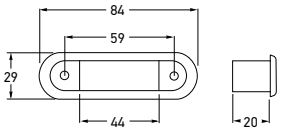




95968060



Peak light output is projected down at 30°



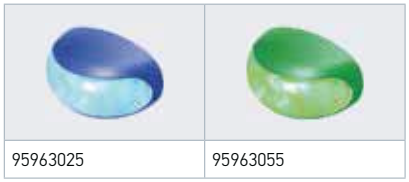
95968080	2XT 959 680-861 – 12/24 Volt Clear lens	WHITE
95968070	2XT 959 680-761 – 12/24 Volt Clear lens	RED
95968090	2XT 959 680-941 – 12/24 Volt Clear lens	GREEN
95968060	2XT 959 680-641 – 12/24 Volt Clear lens	BLUE
Mounting	Recess mount	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 120mm of cable	
Compliance	CE	

See page 77 for spare parts and accessories.

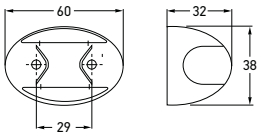
DuraLED® Surface Mount Courtesy Lamps

Blue, white or green LED Courtesy Lamps. Optic appears clear until illuminated.





95963025 | 95963055



95963046	2XT 959 630-462	WHITE
95963025	2XT 959 630-261	BLUE
95963055	2XT 959 630-561	GREEN
Mounting	Two hole surface mount	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of cable	
Compliance	CE	

See page 77 for spare parts and accessories.

HELLA

Technology with Vision



LED Interior Lighting

To suit your lifestyle choice





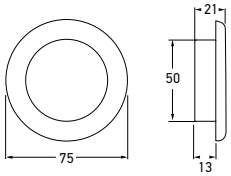
LED Round Courtesy Lamps - Clear Lens

Attractive, energy efficient Round LED Courtesy Lamps for interior and exterior use. Available in nine exciting colours with a range of different rim finishes. Optic appears clear until illuminated.



98050001

		
98050021	98050221	98050721
		
98050761	98050701	98050301



RF CommSafe

Dimmable: Analog DC Input

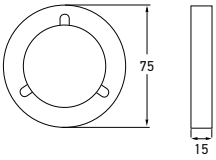
98050001	2XT 980 500-011 – 12 Volt DC	WHITE
98050101	2XT 980 501-011 – 24 Volt DC	
98050051	2XT 980 500-511 – 12 Volt DC	ENHANCED BRIGHTNESS WHITE
98050151	2XT 980 501-511 – 24 Volt DC	
98050021	2XT 980 500-211 – 12 Volt DC	WARM WHITE
98050121	2XT 980 501-211 – 24 Volt DC	
98050071	2XT 980 500-711 – 12 Volt DC	ENHANCED BRIGHTNESS WARM WHITE
98050171	2XT 980 501-711 – 24 Volt DC	
98050721	2XT 980 507-211 – 12 Volt DC	RED
98050821	2XT 980 508-211 – 24 Volt DC	
98050761	2XT 980 507-611 – 12 Volt DC	ORANGE
98050861	2XT 980 508-611 – 24 Volt DC	
98050701	2XT 980 507-011 – 12 Volt DC	AMBER
98050801	2XT 980 508-011 – 24 Volt DC	
98050301	2XT 980 503-011 – 24 Volt DC	GREEN
98050221	2XT 980 502-211 – 12 Volt DC	BLUE
98050321	2XT 980 503-211 – 24 Volt DC	

Mounting	Recess mount with 50mm diameter hole
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable

Each lamp includes a black and a white plastic rim. Additional rims and housings are available as spare parts.

Round Courtesy Lamp Accessories

Spare Rims for the Round Courtesy Lamp family. One rim is required per lamp.





ROUND RIMS - SINGLE		
95950501	9AB 959 505-012 – Plastic	CHROME PLATED
95950520	9AB 959 505-203 – Plastic	BLACK
95950550	9AB 959 505-503 – 316 Stainless Steel	POLISHED
95950556	9AB 959 505-563 – 316 Stainless Steel	SATIN CHROME PLATED

ROUND HOUSING		
95999310	8HG 959 993-103 – Plastic	BLACK
95999311	8HG 959 993-113 – Plastic	WHITE

Housing does not suit high intensity courtesy lamps.



95999310



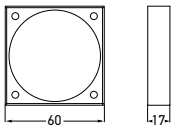
95950550



95950556

Square Courtesy Lamp Accessories

Spare rims for the Square Courtesy Lamp family. One rim is required per lamp.



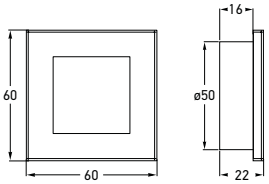


SQUARE RIMS - SINGLE		
98058501	9AB 980 585-012 – Plastic	CHROME PLATED

LED Square Courtesy Lamps - Clear Lens

Attractive, energy efficient Square LED Courtesy Lamps for interior and exterior use. Optic appears clear until illuminated.





Dimmable: Analog DC Input

RF CommSafe

2XT 980 580-551 – White Plastic Rim, 12 Volt DC	▬	WHITE
2XT 980 580-571 – Chrome Plated Rim, 12 Volt DC	▬	
2XT 980 581-571 – Chrome Plated Rim, 24 Volt DC	▬	
2XT 980 580-751 – White Plastic Rim, 12 Volt DC	▬	WARM WHITE
2XT 980 580-771 – Chrome Plated Rim, 12 Volt DC	▬	
2XT 980 581-751 – White Plastic Rim, 24 Volt DC	▬	
2XT 980 581-771 – Chrome Plated Rim, 24 Volt DC	▬	
2XT 980 582-251 – White Plastic Rim, 12 Volt DC	▬	BLUE
2XT 980 582-271 – Chrome Plated Rim, 12 Volt DC	▬	
2XT 980 583-251 – White Plastic Rim, 24 Volt DC	▬	
2XT 980 587-271 – Chrome Plated Rim, 12 Volt DC	▬	RED
2XT 980 588-251 – White Plastic Rim, 24 Volt DC	▬	
2XT 980 588-271 – Chrome Plated Rim, 24 Volt DC	▬	

Mounting	Recess mount, 50mm diameter hole
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable

Additional rims and housings are available as spare parts.



Warm White - Chrome Rim	Blue - Chrome Rim	Red - Chrome Rim

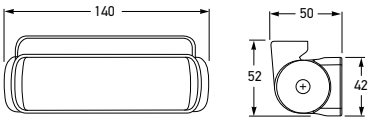


White - White Rim	Blue - White Rim

DuraLED® WL200 Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of two light patterns, narrow or spread.

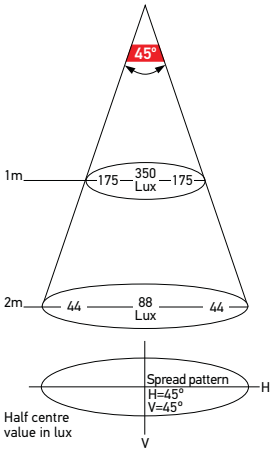




98067030	1GA 980 670-421 – Spread	WHITE
Mounting	Upright or Pendant	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	3W	
Max. Light Output	200 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	CE	

ILLUMINATION CHARTS

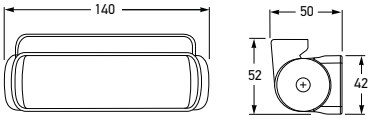
WL200 - Spread



DuraLED® WL550 Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of two light patterns, spread or wide spread.





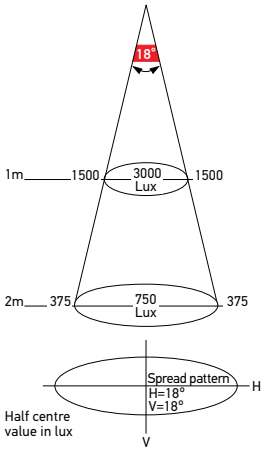
Dual Intensity: Switch Control

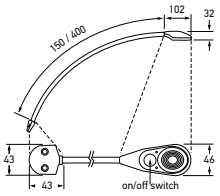
Power Supply MULTI VOLT | 4 LED | Lens Material GMD | Bracket STAINLESS STEEL

98057330	1GA 980 573-301 – Narrow	WHITE
Mounting	Upright or Pendant	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts	
Power Consumption	7W	
Max. Light Output	550 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable	
Lens Material	Nylon (PA12)	
Compliance	CE	

ILLUMINATION CHARTS

WL550 - Narrow





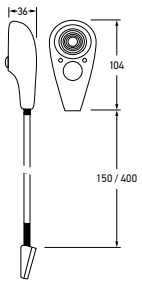
LED Flexible Map Reading Lamps

LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.



Power Supply MULTI VOLT

2638	**2JA 346 720-021**	**150MM**
2639	**2JA 346 720-121**	**400MM**
Mounting	Screw Mount	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts	
Power Consumption	2.4W	
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)	
Cable Length	Pre-wired with 150mm of cable	
Compliance	CE	
Suitable for interior use only.		



LED Flexi Chart Table Lamps

LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.



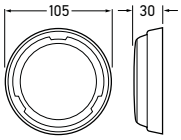
Power Supply MULTI VOLT

2JA 343 720-522	**WHITE/RED**	**150MM**
2JA 343 720-622	**WHITE/RED**	**400MM**
Mounting	Screw Mount	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)	
Cable Length	Pre-wired with 120mm of twin core cable	
Compliance	CE	
Suitable for interior use only.		

Roof Lamp

Brilliant-finished rim.



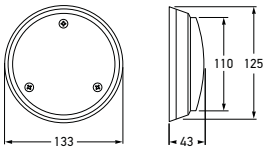


2605	2JA 003 231-013	CHROME LOOK RIM
Voltage	Globe to be ordered separately	
Mounting	Surface Mount	
Function	3 position on / off / door contact switch (suitable for positive door contact only)	
Globes to Suit	2 x 6V K610 2 x 12V K1210 2 x 24V K2410	

Interior Lamp - Polycarbonate Base with Switch

Complete with on/off switch. Suitable for insulated earth circuits.



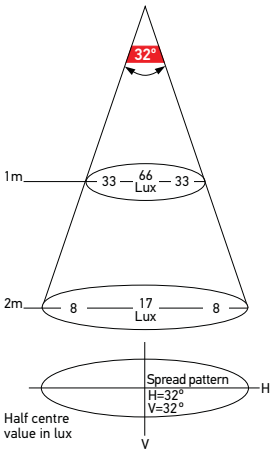


Globe Included 12V GLOBE INC

2617	2JA 950 959-001	WHITE RIM
Globes to Suit	12V K1210 24V K2410	
Spare Part	2.9800.08	Clear Lens

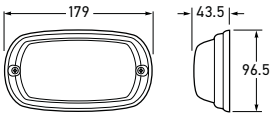
ILLUMINATION CHART

2617



Roof Lamp

Chrome rim and rubber base. Two globe holders. Suitable for insulated earth circuits.

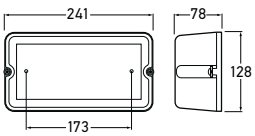




2612	2JA 905 253-001	CHROME RIM
Voltage	Globe to be ordered separately	
Mounting	Surface Mount	
Globes to Suit	2 x 6V 2 x 12V 2 x 24V	L65 L125/K1210 L245/K2410
Spare Parts	2.9801.05 2.6826.03	Lens Chromed Rim

Caravan Entry Lamp

White base with two globe holders - 240V AC bayonet base and 12V DC bayonet base.



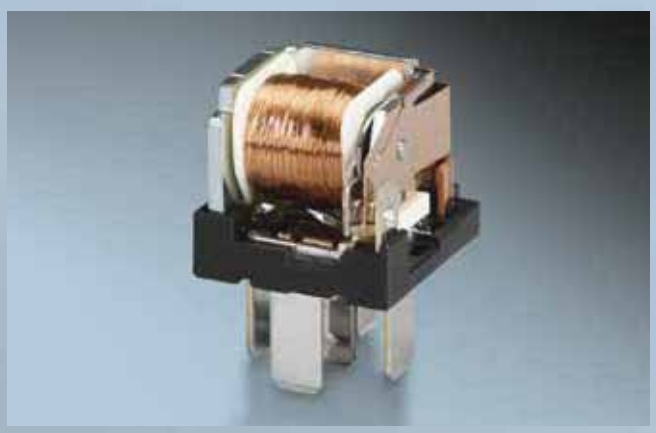


2621	2JA 007 750-012	WHITE BASE
Voltage	Globes to be ordered separately	
Mounting	Surface Mount	
Globes to Suit	12V (FD1221) Bayonet base 240V 40W Max	
Spare Part	9.2620.01	Lens
Note	For exterior use only	



Relays and Flasher Units

HELLA manufactures more than 100 million units per year and thanks to optimised production, HELLA relay and flasher units consistently benchmark with the highest reliability in the industry.





Contents

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Change-Over/Time Control Relays 272

Electronic Flasher Units 280-285

HCS Flasher Units 278-280

HELLA Compatibility Solution 276-277

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Normally Open Relays 12 Volt DC 268

Normally Open Relays 24 Volt DC 269

Relays 267

Safety DayLights™ Controllers 275

VSR/Relay Connectors 273

HELLA RELAYS

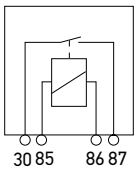
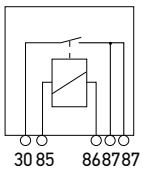
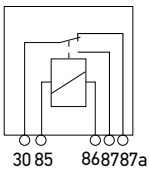
HELLA offers a comprehensive range of relays to suit 12 and 24 volt applications. Quality accessories facilitate the expansion into new applications and provide customers with new solutions.

COMMON PIN DESIGNATIONS FOR RELAYS	
Pin No.	**Description**
85/2	Earth (end of winding to ground or negative)
86/1	Positive
87/5	Output (to consumer e.g. driving lamp)
87a/4	Alternative output (1st output, break side)
30/3	Positive supply (Input from + battery terminal, direct)

Eliminating Voltage Spikes

Voltage spikes from 300V to 500V can occur momentarily when a relay is switched off. Sensitive electronic equipment can be damaged or malfunctions can occur if these spikes reach the vehicle electrical network without suppression. A relay with a diode eliminates voltage spikes completely.

The Different Types of Relays

The Normally Open Relay	The Normally Open Relay with Dual Output	The Change-over Relay
		
A normally open relay is used to close the electric circuit between power source and electrical load, i.e. the load is switched on. Relays are operated by means of switches, pulse generators or control devices. Application: Headlamps, auxiliary driving lamps, auxiliary fog lamps, horns, heaters, motors for fans and power windows, air-conditioners and ignition assemblies.		The change-over relay changes the load path from one electrical load to another. The relay is operated by a dashboard switch. Application: Switching over from town horn to fanfare horn, for 2 speed appliances such as heated rear window or fan motors. Change-over relays can be used as: • Change-over relays • Normally open relays • Normally closed relays

Relays have been predicted to be obsolete in modern vehicles, however the automotive industry needs relays since relay functions cannot always be replaced by control units. Only relays make "galvanic isolation" possible between input and output. Semi-conductor devices cannot manage this at the moment. Another positive factor is the cost advantage relays have compared with an electronic solution.

In motor vehicles, relays are used to switch high currents. For example, the engine control unit is switched by a relay. Their sturdiness allows them to be installed near electric consumers. As only low control currents are required, the cable cross-sections can be kept small. The switching/amplifier function of a relay can only be achieved with a lot more effort and a lot less reliability using "modern" electronics. An additional advantage is that the replacement of a relay is quick and easy. These characteristics guarantee that relays will have a regular place in many vehicles for a long time to come.

Trust in our Quality Relays

→ Production expertise: HELLA produces more than 100 million relays per year. Thanks to optimised production we can offer a competitive price for customers. HELLA relays have an extremely low failure rate.

→ OEM customers: HELLA develops and produces relays for AGCO, Claas, Daimler AG, Ford, VW, GM, JCB, Opel, Nissan, John Deere, Chrysler and Jaguar/Land Rover among others. We have been working with many customers for decades.

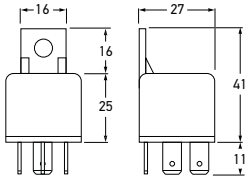
RELAY QUICK REFERENCE CHART

	Voltage	Pins	Function	Protection	Maximum Load	Current Draw	Bracket	Description
MINI RELAYS - NORMALLY OPEN								
3078	12V DC	4	N/O		30A	140mA	Yes	
3053	12V DC	4	N/O	Diode	40A	170mA	Yes	
3059	12V DC	4	N/O	Diode	50A	210mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3082	12V DC	5	N/O		40A	140mA	Yes	
3055	12V DC	5	N/O	Diode	40A	170mA	Yes	
3079	24V DC	4	N/O		30A	70mA	Yes	
3054	24V DC	4	N/O	Diode	22A	90mA	Yes	
3060	24V DC	4	N/O	Diode	30A	90mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3056	24V DC	5	N/O	Diode	22A	90mA	Yes	
MINI RELAYS - NORMALLY OPEN FUSED								
3076	12V DC	4	N/O		25A	140mA	Yes	
3077	24V DC	4	N/O		15A	80mA	Yes	
MINI RELAYS - CHANGE-OVER								
3080	12V DC	5	N/O-N/C		30-87, 30A/30-87a, 20A	140mA	Yes	
3057	12V DC	5	N/O-N/C	Diode	30-87, 40A/30-87a, 15A	170mA	Yes	
3081	24V DC	5	N/O-N/C		30-87, 20A/30-87a, 10A	70mA	Yes	
3058	24V DC	5	N/O-N/C	Diode	30-87, 22A/30-87a, 10A	90mA	Yes	
HIGH CAPACITY RELAYS - NORMALLY OPEN								
3084	12V DC	4	N/O		60A	140mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3061	12V DC	4	N/O		180A peak (100A continuous)	380mA	Yes	
3085	24V DC	4	N/O		60A	70mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3062	24V DC	4	N/O		80A peak (60A continuous)	180mA	Yes	
TIME CONTROL RELAYS								
3086-12V	12V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3087-12V	12V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3086-24V	24V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3087-24V	24V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	

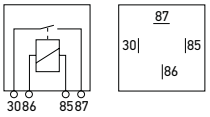
Normally Open Mini Relays



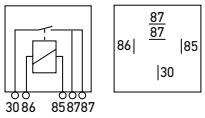
3078 and 3082



3078 and 3082



3078



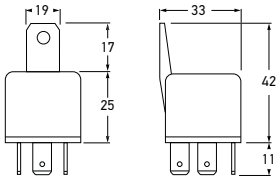
3082

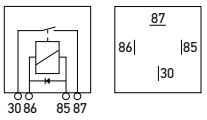
3078	**4RA 965 400-002**	**4 PIN**	**12 VOLT DC**
3082	**4RA 933 791-127**	**5 PIN**	
Maximum Load	Part No. 3078: 30A	Part No. 3082: 0A	
Current Draw	140mA		

Normally Open Mini Relays with Diode

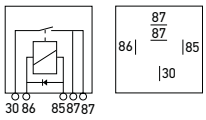


3053 and 3055





3053

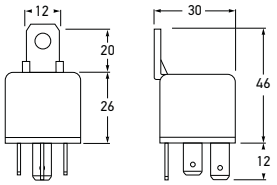


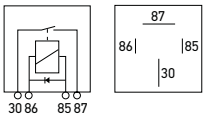
3055

3053	**4RA 905 330-001**	**4 PIN**	**12 VOLT DC**
3055	**4RA 905 330-011**	**5 PIN**	
Maximum Load	40A		
Protection	Diode		
Current Draw	170mA		

Normally Open Mini Relay with Diode





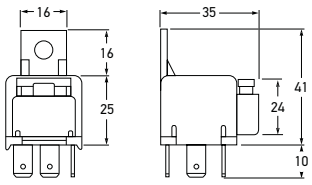


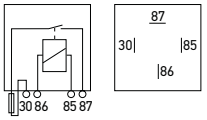
Terminals 30 and 87 are 8.1mm terminals

3059	**4RA 905 330-031**	**4 PIN**	**12 VOLT DC**
Maximum Load	50A		
Protection	Diode		
Current Draw	210mA		

Normally Open Fused Relay

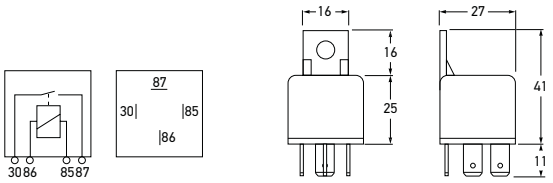






3076	**4RA 003 530-043**	**4 PIN**	**12 VOLT DC**
Maximum Load	25A with 25A fuse		
Current Draw	140mA		

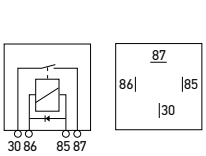
Normally Open Mini Relay



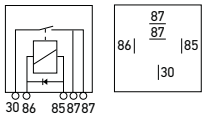


3079	4RA 965 400-032	**4 PIN**	**24 VOLT DC**
Maximum Load	30A		
Current Draw	70mA		

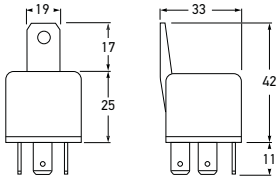
Normally Open Mini Relays with Diode



3054



3056



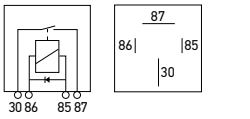


3054

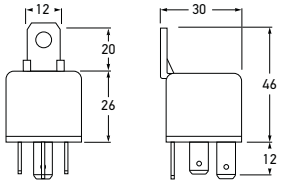
3056

3054	4RA 905 330-241	**4 PIN**	**24 VOLT DC**
3056	4RA 905 330-251	**5 PIN**	
Maximum Load	22A		
Protection	Diode		
Current Draw	90mA		

Normally Open Mini Relay with Diode



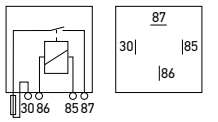
Terminals 30 and 87 are 8.1mm terminals

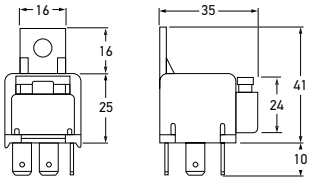




3060	4RA 905 330-271	**4 PIN**	**24 VOLT DC**
Maximum Load	30A		
Protection	Diode		
Current Draw	90mA		

Normally Open Fused Relay





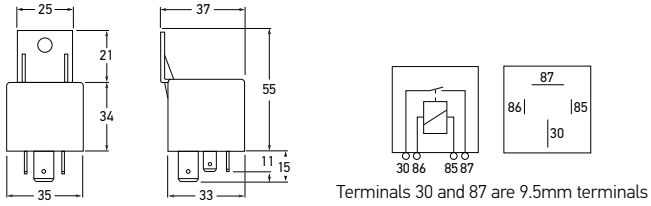


3077	4RA 003 530-052	**4 PIN**	**24 VOLT DC**
Maximum Load	15A with 15A fuse		
Current Draw	80mA		

RELAYS

High Capacity Normally Open Relay



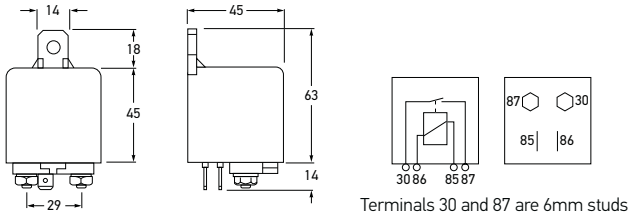


Terminals 30 and 87 are 9.5mm terminals

3084	4RA 003 437-088	4 PIN	12 VOLT DC
Maximum Load	60A		
Current Draw	140mA		

High Capacity Normally Open Relay



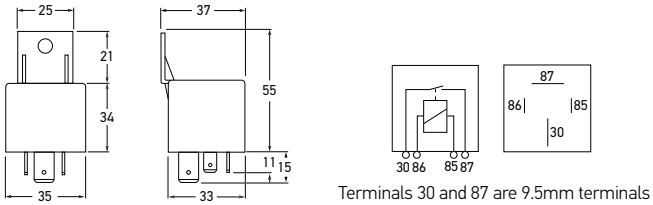


Terminals 30 and 87 are 6mm studs

3061	4RA 905 330-041	4 PIN	12 VOLT DC
Maximum Load	180A peak current (100A continuous)		
Current Draw	380mA		

High Capacity Normally Open Relay



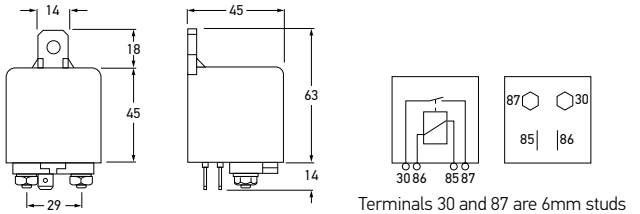


Terminals 30 and 87 are 9.5mm terminals

3085	4RA 003 437-098	4 PIN	24 VOLT DC
Maximum Load	60A		
Current Draw	70mA		

High Capacity Normally Open Relay

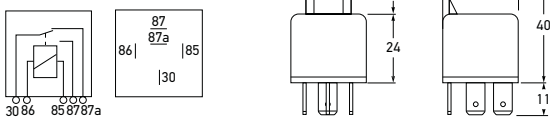




Terminals 30 and 87 are 6mm studs

3062	4RA 905 330-281	4 PIN	24 VOLT DC
Maximum Load	80A peak current (60A continuous)		
Current Draw	180mA		

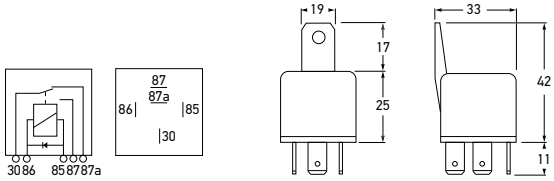
Change-over Relay





3080	4RD 933 332-397	5 PIN	12 VOLT DC
Maximum Load	30-87, 30A/30-87a, 20A		
Current Draw	140mA		

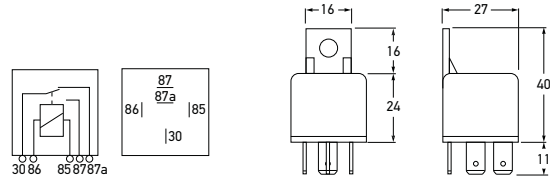
Change-over Relay with Diode





3057	4RD 905 330-021	5 PIN	12 VOLT DC
Maximum Load	30-87, 40A/30-87a, 15A		
Protection	Diode		
Current Draw	170mA		

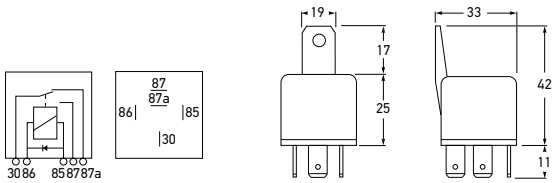
Change-over Relay





3081	4RD 933 332-411	5 PIN	24 VOLT DC
Maximum Load	30-87, 20A/30-87a, 10A		
Current Draw	70mA		

Change-over Relay with Diode



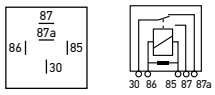


3058	4RD 905 330-261	5 PIN	24 VOLT DC
Maximum Load	30-87, 22A/30-87a, 10A		
Protection	Diode		
Current Draw	90mA		

Weather Proof Change-over Relays

Weather Proof Relay and connector assembly kits.



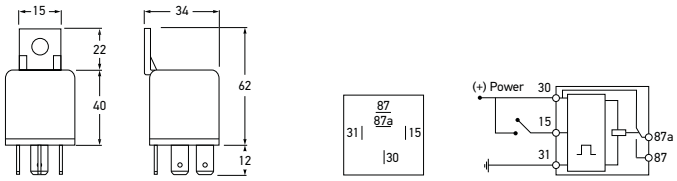


HMWPR001	**8KW 910 182-001**	**12 VOLT DC**
HMWPR002	**8KW 910 182-011**	**24 VOLT DC**
Voltage	12V 10 - 16V DC 24V 20 - 28V DC	
Operating Range	-40°C to +125°C	
Contact Current Rating	12V NO 35A / NC 20A 24V NO 40A / NC 30A	
Coil Resistance	12V 70-90 Ohms @ 23°C 24V 300 Ohms	
Transient Suppressor Resistor	12V 680 Ohms 24V 2700 Ohms	
Kit Contents	ISO mini relay and connector assembly kit contains: 1 x ISO-style changeover relay. 1 x Connector body with seals for pull to seat terminals. 3 x Large barrel pull to seat terminal 6.3mm width suits cable size 3.00mm² 2 x Small barrel pull to seat terminal 6.3mm width suits cable size 1.00 - 2.00mm²	

Time Control Units with Drop-out Delay

Relay with manually adjustable drop-out delay function, 0 – 900 seconds.



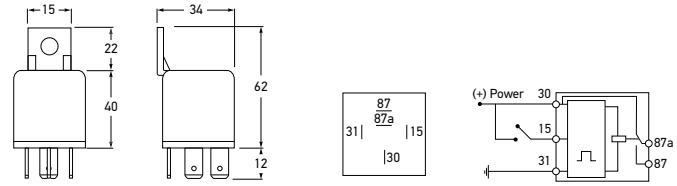


3086-12V	**5HE 996 152-131**	**5 PIN**	**12 VOLT DC**
3086-24V	**5HE 996 152-141**		**24 VOLT DC**
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection	IP 50 (Protection against dust)		
Switching terminal 15 starts timing.			

Time Control Units with Pick-up Delay

Relay with manually adjustable pick-up delay function, 0 – 900 seconds.



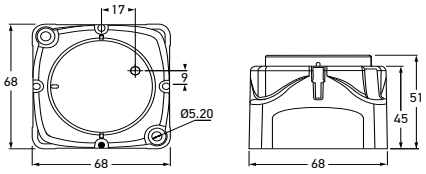


3087-12V	**5HE 996 152-042**	**5 PIN**	**12 VOLT DC**
3087-24V	**5HE 996 152-171**		**24 VOLT DC**
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection	IP 50 (Protection against dust)		
Switching terminal 15 starts timing.			

Voltage Sensitive Relay Module

Digital Voltage Sensitive Relay with dual sensing for 12 and 24 volt systems. Suitable for boats, caravans and 4WD vehicles, this relay allows a separate battery to be used independently from another battery permitting, for example, the starting battery not to be discharged. However when either battery is charged, the relay will connect both batteries to allow dual charging. Very low power consumption (less than 2mA) or none in power storage mode.





3099	4RD 980 830-001	12/24 VOLT DC
Voltage	Multivolt, suitable for 12 and 24 volt systems.	
Mounting	Recess or surface mount.	
Max. Continuous Load	140A	
Termination	2 x 6mm studs	

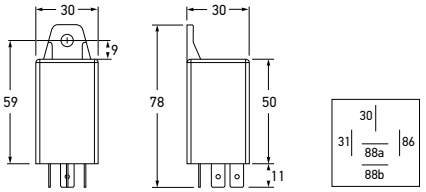
Voltage Sensitive Relay (VSR)

The Voltage Sensitive Relay (VSR) is designed to automatically monitor the battery condition of your vehicle through constant voltage measurements. Then depending upon the voltage level the VSR will activate or deactivate the connected load to prevent the battery from over-discharging.



3101
Voltage Sensitive Relay

The Voltage Sensitive Relay installation must be protected by a suitably rated fuse.



3101	5DS 980 818-501	
3101BULK	5DS 980 818-507	BOX OF 20
Voltage	Multivolt, suitable for 12 and 24 volt systems.	
Max. Continuous Load	5A	
Compliance		

WIRING SPECIFICATIONS	
Terminal No.	Connect to
30	Battery (+)
31	Earth return (-)
86	Activate (+) / Deactivate VSR (- or open)
88a & 88b	Dual outputs (+)

PRE-SET VOLTAGE LIMITS AND OPERATION		
System Voltage	VSR turns outputs ON when	VSR turns outputs OFF when
12V DC	Battery voltage is above 13.4V DC	Battery voltage is below 12.8V DC
24V DC	Battery voltage is above 26.8V DC	Battery voltage is below 25.6V DC
Note	The pre-set voltage values stated above may vary by +/- 3%.	

Mini Relay Connector

Single screw mounting. Sturdy plastic casing. Supplied with 5 blade terminals. Several holders may be joined together.



4973	8JA 003 526-005	
4973BULK	8JA 003 526-006	PACK OF 30
Mounting	Single screw mounting.	
To Suit	4 and 5 pin relays with 6.3mm flat pin connectors.	

Part No. 3076 and 3077 are not suitable for multiple installation using this connector.

Technology with Vision



SAFETY DayLights™
SMART CONTROLLER

Easy Fit
With Smart Controller

The smart controller is designed to simplify the installation of HELLA's LED Safety DayLights™ (SDL) range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The smart controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.



Advanced and standard versions available.

safetydaylights.com

Safety DayLights™ Smart Controllers

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

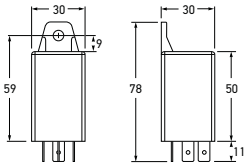
The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

*Advanced version with vibration monitor for installation in vehicles with fuel saving alternators.

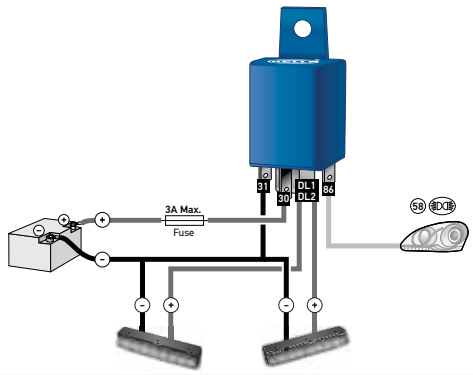






3090	5DF 980 818-011 – (Advanced*)	
3090BULK	5DF 980 818-017 – (Advanced*)	**Pack of 20**
3091	5DF 980 818-001 – (Standard)	
3091BULK	5DF 980 818-007 – (Standard)	**Pack of 20**
Voltage	Multivolt, suitable for 12 and 24 volt DC systems.	
Maximum Continuous Load	20W	
To Suit	HELLA LED Safety DayLights™ range.	
Features a Safety DayLights™ OFF delay of approximately 10 seconds.		

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING



WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Battery (+)
31	Earth return (-)
86	Front position or headlamps (+)
DL1 & DL2	Safety DayLights™ (+)



3091 (Standard)



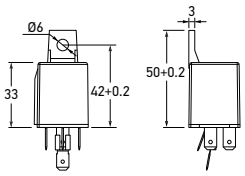
Dual Function Safety DayLights™ Controllers

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

The Dual Function Controller reduces the current to the Safety DayLights™ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

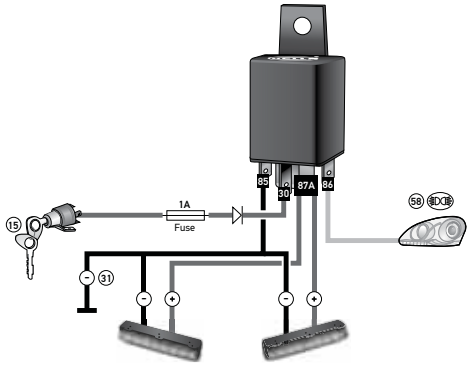
* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.





9.5630.03	5DF 980 816-041	**12 VOLT DC**
9.5636.03	5DF 980 816-061	
9.5630.04	5DF 980 816-541	**24 VOLT DC**
9.5636.04	5DF 980 816-561	
To Suit	9.5630.03	Part No. 1009, 5619, 5630, 5631
	9.5636.03	Part No. 5636
	9.5630.04	Part No. 1009-24V, 5619-24V, 5630-24V, 5631-24V
	9.5636.04	Part No. 5636-24V

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING



WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	Safety DayLights™ (+)



HELLA COMPATIBILITY SOLUTION

HELLA HCS lamps, electronic control and flasher units are designed to the latest ISO International Standard to provide compatibility with commercial vehicle indicator failure systems.

Vehicles driven on public roads require the operation of direction indicator lamps to be monitored and a fault instantly signalled to the driver. Direction indicator lamps are an important road safety feature, signalling the direction change of the vehicle. Failure to signal or failure to recognise a direction indicator signal poses a significant risk of causing an accident.

LED direction indicator lamps offer a reliable Fit and Forget solution and have become the choice for cost conscious transport operators. LED lamps with their low power consumption and Multivolt features, are often a challenge for existing lamp failure detection systems on modern trucks and buses.

Transport fleets often feature a mix of trailers equipped with globe based lamps as well as trailers with full LED based lighting solutions. For the efficient operation of the fleet, each of these trailers should be compatible with the indicator failure detection systems of any of the trucks in the fleet, both now and in the future.

Some manufacturers recommend fitting additional resistive loads in parallel to the LED lamps, to simulate the 21 watts consumed by a traditional globe lamp.

Such pure resistive load solutions can be problematic for the following reasons:

- → They mask the possible failure of the actual LED signal lamp itself.
- → In many cases such pure resistive solutions do not function as they provide a linear time/current response which is significantly different to the time/current response of a globe filament when it heats up, as in the initial heat-up period the globes consume significantly more power than the rated 21 Watt.
- → Additional parallel resistors consume a significant amount of energy and thus negate the lower power advantage that LED lamps offer.
- → LED lamps marked with the HCS symbol feature patented indicator failure control technology which allows seamless communication with HELLA HCS control flasher units, or modern European trucks with body controllers compliant with the ISO 13207-1 standard.

International Organisation for Standardisation

The International Organisation for Standardisation (ISO) is a network of national standards bodies working together to develop International Standards. Currently ISO has members from 162 countries and 3,368 technical bodies working to a common goal of making international trade and industry more effective and efficient. The standards operate by global consensus, with many governments adopting the standards into their legislation.







ISO 13207-1 Standard

ISO 13207-1 specifies a precisely timed pulse for a low power LED lamp, which momentarily mimics the power consumption of a conventional incandescent globe. This pulse is suppressed when the LED direction indicator diagnoses itself as faulty. An ISO 13207-1 compatible flasher or vehicle body controller interprets the pulse suppression and alerts the driver to a faulty lamp or faulty wiring.

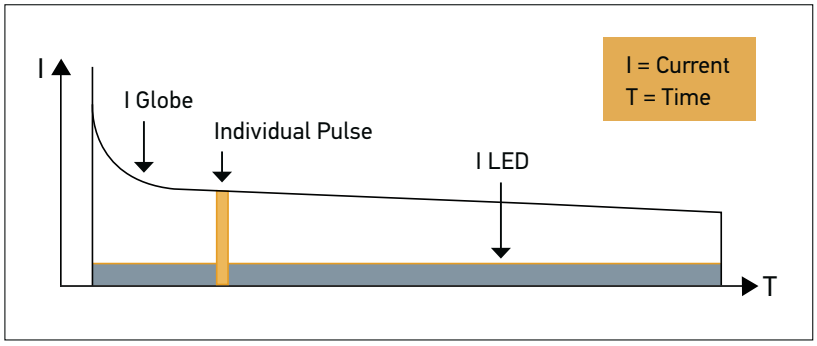
Body Control Modules or HCS flasher units together with LED lamps designed to ISO 13207-1 maintain the benefit of low power LED lamps, as opposed to a parallel resistor which increases the power consumption to that of a 21 watt globe.

HELLA Australia has been instrumental in laying the groundwork for the development of the HELLA Compatibility System (HCS), which became the blueprint for the ISO 13207-1 standard. HELLA HCS lamps are fully compliant with ISO 13207-1.

ISO 13207-1 has been agreed to by European truck manufacturers and will be incorporated into the vehicle monitoring electronics of European trucks.

Astute transport fleet operators are already future-proofing their trailers by specifying HELLA HCS Fit and Forget LED lighting solutions which will be plug-and-play with 24 volt European trucks.

HELLA lamps which incorporate HCS readily comply with ISO 13207-1.



The HCS innovation generates a pulse that simulates the current draw equivalent to an incandescent globe.

HELLA HCS Lamps

HELLA products throughout this catalogue displaying the HCS logo incorporate HELLA Compatibility Solutions technology.


2391


2133-CS


2378-CS


2431-CS


2151-HCS

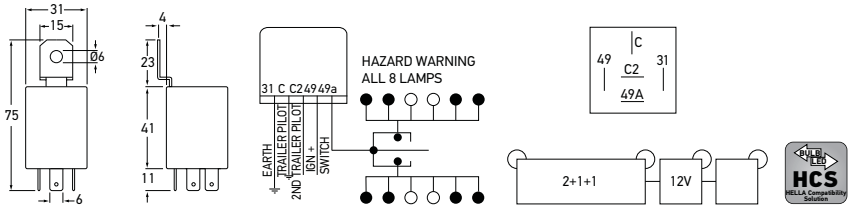

2146-HCS

A selection of HCS products.

HCS Electronic Flasher Unit 2+1+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/ LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



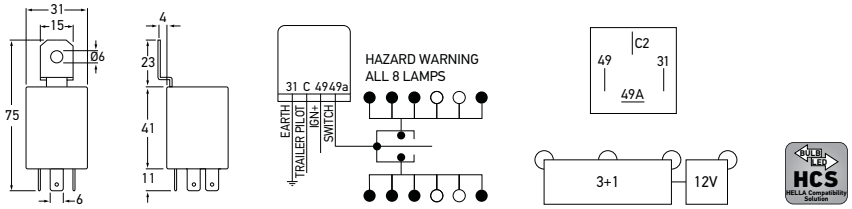


3036	4DN 009 492-102	12 VOLT DC
Maximum Load	2+1+1(8) x HCS or 21W + 0-5W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 276-277 for further information on HCS Technology		

HCS Electronic Flasher Unit 3+1

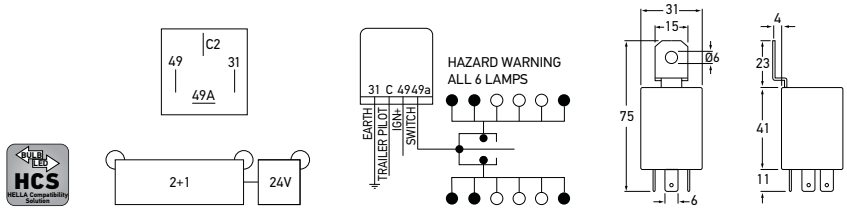
LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/ LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.





3039	4DW 009 492-112	12 VOLT DC
Maximum Load	3+1 (8) x HCS or 21W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 276-277 for further information on HCS Technology		

COMMON PIN DESIGNATIONS FOR FLASHER UNITS	
Terminal Number	Description
49/X	Flasher input (+)
49a/L	Flasher output (+) to lamps or indicator switch
30b	Flasher input (+) from hazard switch
31	Earth (-)
C/C1/CP/P	Pilot lamp output (+)
C2	1st trailer pilot lamp output (+)
C3	2nd trailer pilot lamp output (+)

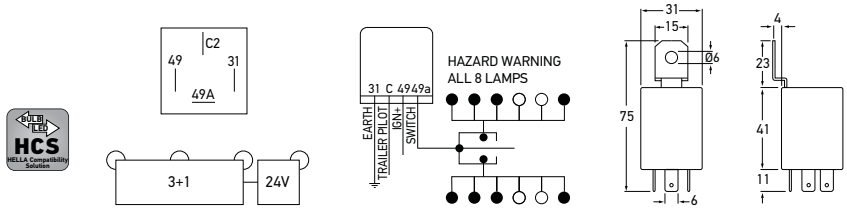


3037	4DM 009 492-002	24 VOLT DC
Maximum Load	2+1 (6) x HCS or 21W + 0-5W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 276-277 for further information on HCS Technology		

HCS Electronic Flasher Unit 2+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.





3038	4DW 009 492-012	24 VOLT DC
Maximum Load	3+1 (8) x HCS or 21W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 276-277 for further information on HCS Technology		

HCS Electronic Flasher Unit 3+1

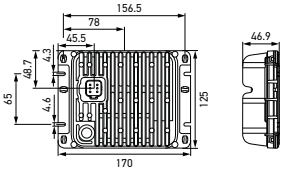
LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



HCS Basic Control Unit (12V and 24V)

HCS LED indicator outage monitoring unit with 21W bulb current simulation. For vehicles without flasher units that carry out current measurement for the failure check. In combination with trucks/ trailers fitted with HELLA HCS LED indicator lamps, the control unit simulates the time/current response of an incandescent bulb. Two variants suitable for vehicles operating with 12V or 24V.





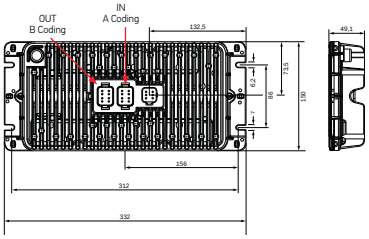
5DS 227 488-001	**12 VOLT DC**
5DS 227 488-101	**24 VOLT DC**
Operating Voltage	12V DC / 24V DC
Connection	DT Type 6-Pin Socket (Indicator Circuit Input/Output)
Note	Control unit is responsible only for monitoring the direction indicators.

See page 276-277 for further information on HCS Technology

HCS Premium Control Unit (12V, 12V and 24V)

Similar to the basic version, but with additional features for the whole rear lighting: tail lights, stop lights, direction indicators, reversing lights, and rear fog light. Suitable for vehicles operating with 12V or 24V systems and 1 stop light channel or 12V systems and 2 stop light channels.





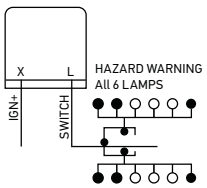
5DS 227 489-001 – 1 Stop Light Channel	**12 VOLT DC**
5DS 227 489-011 – 2 Stop Light Channels	**12 VOLT DC**
5DS 227 489-101 – 1 Stop Light Channel	**24 VOLT DC**
Operating Voltage	12V DC / 24V DC
Connection	DT Type 6-Pin Socket (Indicator Circuit Input/Output) DT Type 8-Pin Socket, 'A-Coded' (Other Functions Input) DT Type 8-Pin Socket, 'B-Coded' (Other Functions Output)
Note	Control unit is responsible for monitoring the whole rear lighting (tail lights, brake lights, direction indicators, reversing light and rear fog light).

See page 276-277 for further information on HCS Technology

High Capacity Flasher Unit

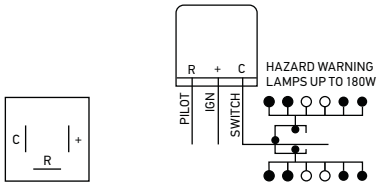
2-Pin High-Capacity Flasher. Max. 6 lamps. Suitable for hazard warning applications.







3008	4LZ 905 728-061	**2 PIN**	**12 VOLT DC**
Maximum Load	6 x 24W (32 cp)		

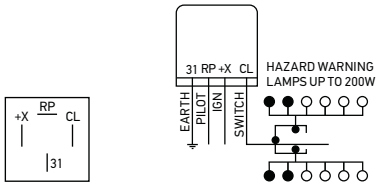


High Capacity Flasher Unit

Heavy-Duty Flasher Unit manufactured to take up to 180W loads.



3014	**4AZ 910 353-001**	**3 PIN**	**12 VOLT DC**
Maximum Load	180W		

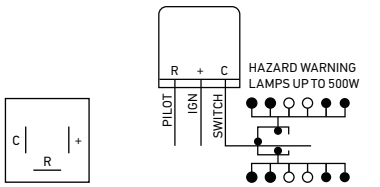


High Capacity Flasher Unit

4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.



3014HD	**4AZ 003 787-002**	**4 PIN**	**12 VOLT DC**
Maximum Load	10-200W		
Note	Not suitable for extended periods of continuous use at maximum load. Maximum pilot lamp load 3W.		

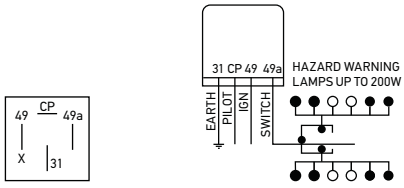


High Capacity Flasher Unit

Heavy-Duty Flasher Unit manufactured to take up to 500W loads.



3015	**4AZ 957 224-001**	**3 PIN**	**24 VOLT DC**
Maximum Load	500W 100W continuous		
Note	Not suitable for extended periods of continuous use at maximum load. For pilot (warning) signal output from terminal "R" a minimum load of 2 x 21W + 5W = 47W must be applied. With less than 47W load the pilot (warning) signal output from terminal "R" will not operate to indicate globe failure to the driver. Maximum pilot lamp load 3W.		



High Capacity Flasher Unit

4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.

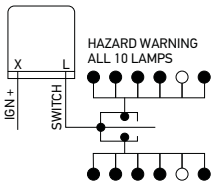


3015HD	**4AZ 003 787-023**	**4 PIN**	**24 VOLT DC**
Maximum Load	10-200W		
Note	Not suitable for extended periods of continuous use at maximum load. Maximum pilot lamp load 3W.		

High Capacity Flasher Unit

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.







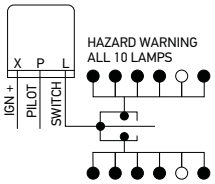
3026	4LZ 961 553-124	**2 PIN**	**12 VOLT DC**
Maximum Load	1-10 x 21W		

High Capacity Flasher Units

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.



3027





3027	4LZ 961 553-133	**3 PIN**	**12 VOLT DC**
3028	4LZ 961 553-233		**24 VOLT DC**
Maximum Load	1-10 x 21W		

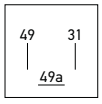
Universal Mounting Bracket

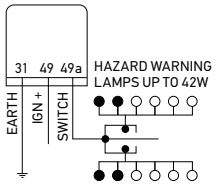
For mounting 32mm diameter HELLA Flasher Unit Part No. 3026, 3027, 3028.

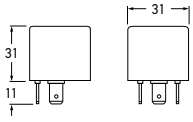


8003	8HG 002 156-001









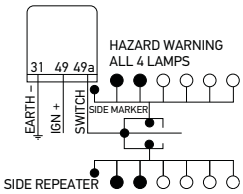
3040	4JZ 177 846-007	3 PIN
Voltage	9-33V DC (suitable for 12V DC and 24V DC)	
Maximum Load	42W max.	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	

Electronic Flasher Unit

LED Compatible Flasher Unit for universal connection of LED indicator lamps without electronic pulse. Maintains the standard flash rate of 90 +/- 30 fpm and operates on globe and LED loads from 1W to 42W.







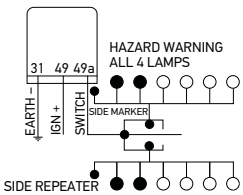
3016	4DB 003 750-722	3 PIN	12 VOLT DC
Maximum Load	2(4) x 21W + 0 - 5W		

Electronic Flasher Unit

To operate 2 or 3 lamps on either side of vehicle. Incorporates hazard warning flasher system when used in conjunction with HELLA switch Part No. 5227.







3016LED1	4DB 003 750-741	3 PIN	12 VOLT DC
3016LED2	4DB 003 750-751		
Maximum Load	Front direction indicator lamp	1(2) x 21W	
	Supplementary side direction indicator lamp	1(2) x 5W (3016LED2 only)	
	DuraLED direction indicator lamp	1(2) x 9W	



3016LED2

LED Electronic Flasher Units

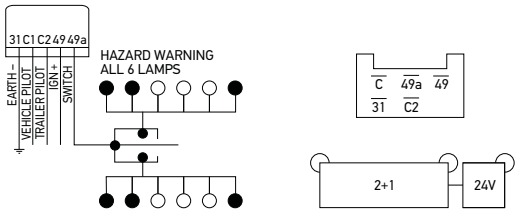
Modified version of Part No. 3016 Electronic Flasher Unit. Specifically designed for use with DuraLED® rear direction indicator lamps on motor vehicles such as prime movers, trucks and motor homes, maintaining the mandatory globe failure warning signal function.



Electronic Flasher Unit 2+1

Flasher Unit designed to operate 2 or 3 lamps on either side of a vehicle with caravan or trailer. Includes mounting bracket. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch Part No. 5227.



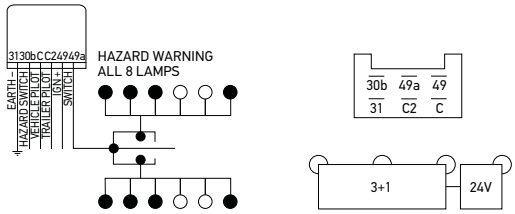


3018	4DM 003 474-002	5 PIN	24 VOLT DC
Maximum Load	2+1 (6) x 21W		

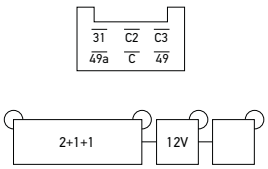
Electronic Flasher Unit 3+1

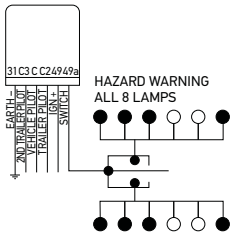
For heavy trucks with trailers. With mounting bracket. To operate 3 lamps on either side of towing vehicle, plus an additional lamp on either side of a trailer. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch Part No. 5227.





3032	4DW 003 944-052	6 PIN	24 VOLT DC
Maximum Load	3+1 (8) x 21W		



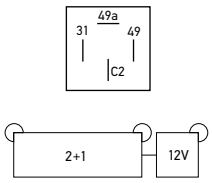


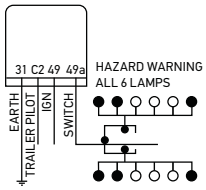
3033	4DN 008 768-022	6 PIN	12 VOLT DC
Maximum Load	2+1+1 (8) x 21W		

Electronic Flasher Unit 2+1+1

To operate 2 lamps on either side of a towing vehicle plus an additional lamp on either side of each of two trailers. Separate pilot lamps indicate operation of flasher lamps on the trailers.







3035	4DM 003 360-021	4 PIN	12 VOLT DC
Maximum Load	2+1 (6) x 21W + 0-5W		

Caravan/Trailer Conversion Flasher Unit 2 + 1

Designed to enable operation of 2 or 3 lamps simultaneously. Incorporates a specially designed mechanism which automatically compensates as the wattage load is varied.



Accessories

Create New Possibilities

Components for visibly improved performance.
Selected for precision and compatibility.









Customisation provided by quality accessories makes new applications possible. Confidently do more than before.

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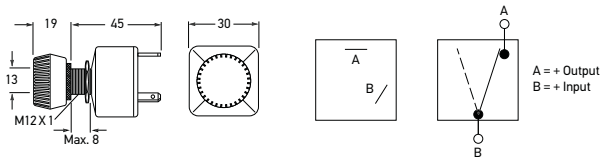
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Rotary Switch Off-On

Rotary Switch with round knob.



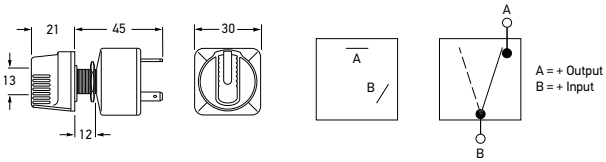


4020	6EB 905 341-001	OFF-ON
Mounting	12.5mm diameter opening	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

Rotary Switch Off-On

Rotary Switch with flat knob.



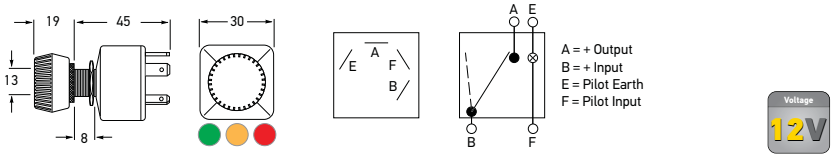


4021	6EB 905 341-011	OFF-ON
Mounting	12.5mm diameter opening	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

Illuminated Rotary Switch Off-On 12 Volt

Illuminated by inbuilt 12V capillary globe, complete with red, amber and green lenses.



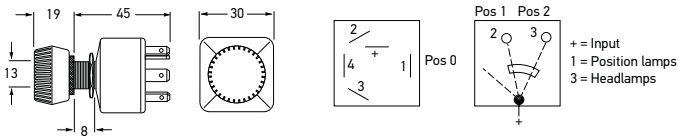


4022	6EB 905 341-021	OFF-ON
Mounting	12.5mm diameter opening	
Maximum Load	15A @ 12V DC	
Protection	IP 53 (Protection against dust and water spray)	
Suitable for 12V DC only. Globe not replaceable.		

Rotary Headlamp Switch Off-On-On

Rotary Switch with round knob.

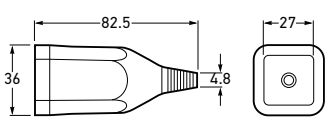




4023	6EB 904 341-031	OFF-ON-ON
Mounting	12.5mm diameter opening	
Maximum Load	23A @ 12V DC 11.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

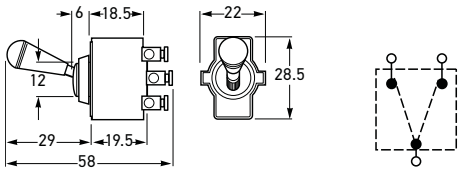
Rubber Sealing Boot





4024	9GH 905 342-001	OFF-ON
To Suit	Part No. 4020-4023	

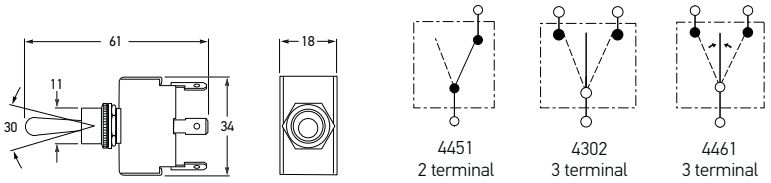
Changeover Switch On-On





4150	6FG 002 312-003	ON-ON
Mounting	13mm diameter opening	
For Panels	Up to 2mm thick	
Maximum Load	8A @ 12V DC 4A @ 24V DC	

Metal Shaft Toggle Switches



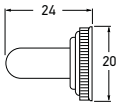


4451

4451	6EH 905 359-001	OFF-ON
4302	6FG 905 348-001	ON-OFF-ON
4461	6EH 905 362-001 – (Momentary Spring Return)	(ON)-OFF-(ON)
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

Toggle Boot

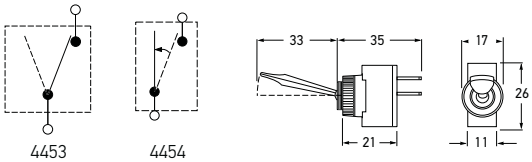
To be used with toggle switches.





4452	6EH 905 360-001
To Suit	Toggle switch 4302, 4451 and 4461

Plastic Toggle Switches





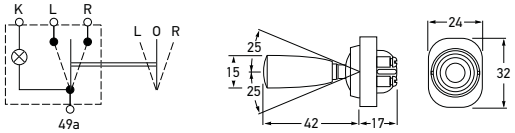
4453

4453	6EH 905 361-001	OFF-ON
4454	6EH 905 361-011 – (Momentary Spring Return)	OFF-(ON)
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	8A @ 12V DC	

Illuminated Toggle Switch On-Off-On

Three position latching switch for indicators. Illuminates green.



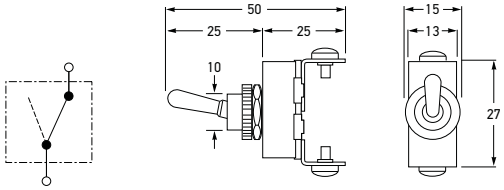


4206	6FG 905 347-001	ON-OFF-ON
Voltage	12V: globe to be ordered separately	
Mounting	19mm diameter opening	
For Panels	Up to 2mm thick	
Maximum Load	6A @ 12V DC	
Globes to Suit	12V 292 To be ordered separately	

Brass Toggle Switch Off-On

Chrome toggle and face nut. Brass construction.

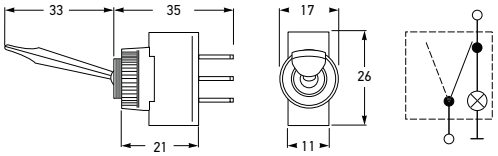




2762	6EG 905 310-001	OFF-ON
Mounting	11mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	
Toggle boot 4452 does not fit this switch		

Illuminated Toggle Switches Off-On 12 Volt





Voltage 12V

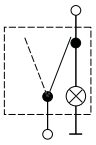
4433	6EG 905 354-001	RED
4434	6EG 905 354-011	GREEN
4435	6EG 905 354-021	AMBER
4436	6EG 905 354-031	BLUE
Mounting	12.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

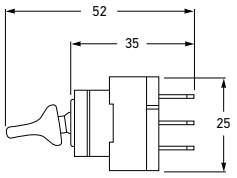


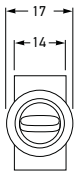
4434	4435	4436

Illuminated Duckbill Switches Off-On 12 Volt









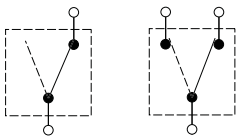
4421	6EG 905 351-011	RED
4422	6EG 905 351-021	GREEN
4423	6EG 905 351-031	BLUE
4424	6EG 905 351-041	AMBER
Mounting	12.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		



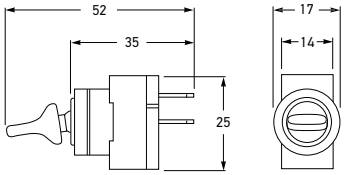


4422 | 4423 | 4424

Duckbill Switches

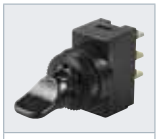


4420 4152



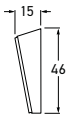
4420	6EG 905 351-001	OFF-ON
4152	6FG 905 345-001	ON-ON
Mounting	12.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

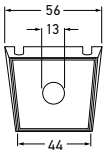




4152

Switch Mounting Panel





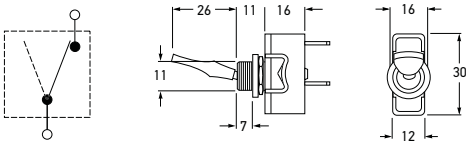
4437	8HG 950 709-001	SINGLE
Mounting	12.5mm diameter opening	

Single Switch Mounting Panel. Plastic moulded with black grain finish.



Toggle Switch Off-On



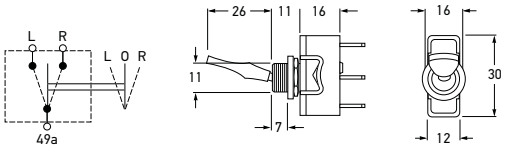


4456	6EH 905 361-021	OFF-ON
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

Toggle Switch On-Off-On

Toggle switch, suitable for controlling direction indicator lamps.



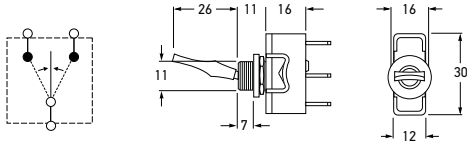


4202	6FG 905 346-001	ON-OFF-ON
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

Momentary Spring Return Switch (On)-Off-(On)

Momentary on-off-on, spring return aerial switch. Flick toggle with spring return to centre.



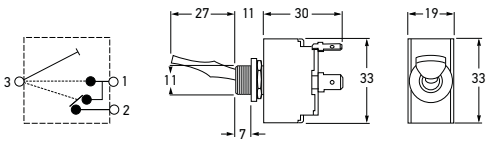


4460	6EH 905 361-031	(ON)-OFF-(ON)
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	

Headlamp Switch Off-On-On

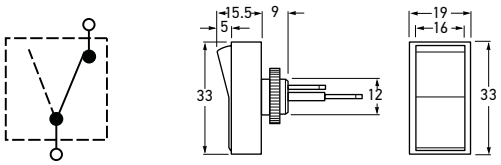
Three position switch:
Upper = Off
Centre = Position lamps
Lower = Headlamps and position lamps





4056	6FG 905 343-011	OFF-ON-ON
Mounting	13mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

Rocker Switch Off-On

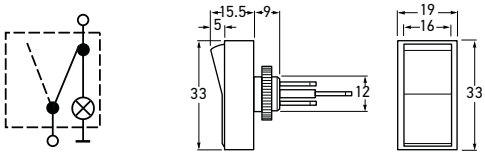




4439	6EH 905 356-001	OFF-ON
Mounting	12.5mm diameter opening	
For Panels	Up to 12mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

Illuminated Rocker Switches Off-On 12 Volt

Voltage 12V

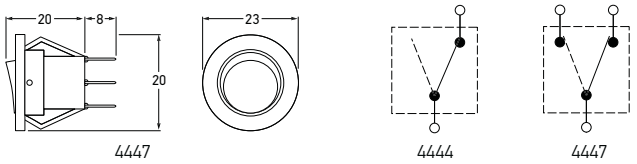


Push-on terminals.



4440	6EH 905 356-011	RED
4441	6EH 905 356-021	GREEN
4442	6EH 905 356-031	AMBER
4443	6EH 905 356-041	BLUE
Mounting	12.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

Rocker Switches



Panel push fit.

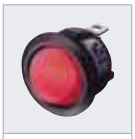


4444	6EH 905 357-001	OFF-ON
4447	6FH 905 357-031	ON-ON
Mounting	20mm diameter opening	
For Panels	Up to 4mm thick	
Maximum Load	10A @ 12V DC	

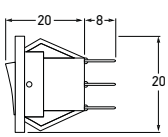
Illuminated Rocker Switches Off-On 12 Volt

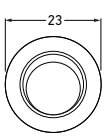
Panel push fit.

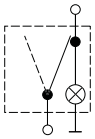




4446





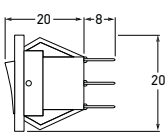


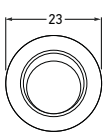
4445	6EH 905 357-011	AMBER
4446	6EH 905 357-021	RED
Mounting	20mm diameter opening	
For Panels	Up to 4mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

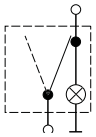
LED Rocker Switch Off-On 12 Volt DC

Panel push fit.







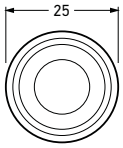


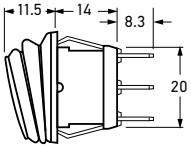
4448	6EH 905 357-041	RED
Mounting	20mm diameter opening	
For Panels	Up to 4mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. LED included, not replaceable.		

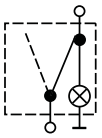
Illuminated Compact LED Rocker Switches Off-On

Compact, heavy-duty LED illuminated Rocker Switches featuring durable nylon frame and waterproof rubber sealing boot for additional protection in industrial environments. Push-on terminals.



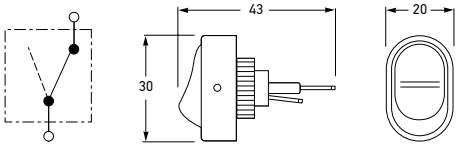






HM4400A	9MK 910 086-241 – 24V DC	AMBER
HM4400A-12V	9MK 910 086-001 – 12V DC	AMBER
HM4400B	9MK 910 086-251 – 24V DC	BLUE
HM4400G	9MK 910 086-261 – 24V DC	GREEN
HM4400G-12V	9MK 910 086-021 – 12V DC	GREEN
HM4400R	9MK 910 086-271 – 24V DC	RED
HM4400R-12V	9MK 910 086-031 – 12V DC	RED
Voltage	12V DC (non-replaceable LED included) 24V DC (non-replaceable LED included)	
Mounting	20mm diameter opening	
For Panels	Up to 2.5mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	
Suitable for 12V DC only. LED included, not replaceable.		

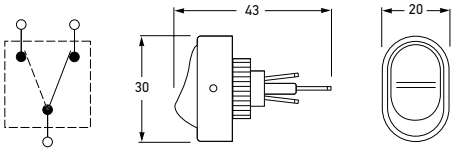
Rocker Switch Off-On





4470	6EH 905 363-001	OFF-ON
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	10A @ 12V DC	

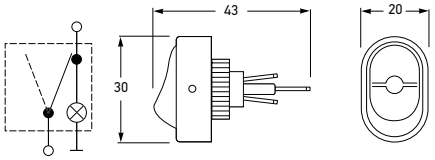
Rocker Switch On-On





4475	6FH 905 363-051	ON-ON
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	10A @ 12V DC	

Illuminated Rocker Switches Off-On 12 Volt



Voltage 12V



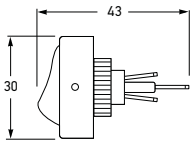
4471	6EH 905 363-011	AMBER
4472	6EH 905 363-021	BLUE
4473	6EH 905 363-031	GREEN
4474	6EH 905 363-041	RED
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

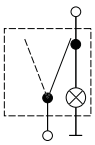


4472	4473	4474

Illuminated Rocker Switches Off-On 12 Volt







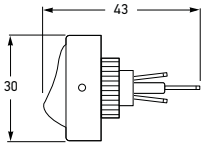


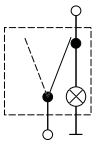
4477 | 4478

4476	**6FH 905 363-061**	**AMBER**
4477	**6FH 905 363-071**	**GREEN**
4478	**6FH 905 363-081**	**RED**
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

LED Rocker Switches Off-On 12 Volt DC









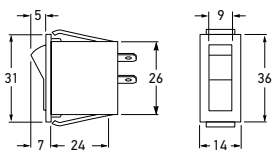
4480 | 4481

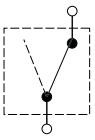
4479	**6FH 905 363-091**	**AMBER**
4480	**6FH 905 363-101**	**GREEN**
4481	**6FH 905 363-111**	**RED**
Mounting	12mm diameter opening	
For Panels	Up to 5mm thick	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. LED included, not replaceable.		

Rocker Switch Off-On

Panel push fit.





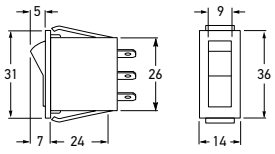


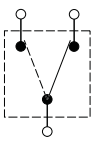
4426	**6EH 905 352-001**	**OFF-ON**
Mounting	29 x 12mm opening	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

Rocker Switch On-On

Panel push fit.





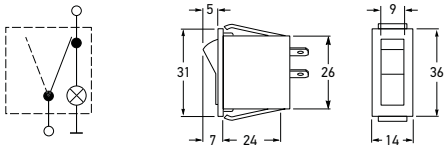


4151	**6FH 004 406-053**	**ON-ON**
Mounting	29 x 12mm opening	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

Illuminated Rocker Switches Off-On 12 Volt

Panel push fit.





4427	6EH 905 352-011	RED
4428	6EH 905 352-021	GREEN
4429	6EH 905 352-031	BLUE
4430	6EH 905 352-041	AMBER
Mounting	29 x 12mm opening	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

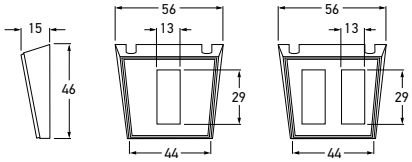


4428 | 4429 | 4430

Rocker Switch Mounting Panels

Plastic moulded with black grain finish.





4431	8HG 905 353-001	SINGLE
4432	8HG 905 353-011	DOUBLE
To Suit	Rocker switches: 4426, 4427, 4428, 4429, 4430 and 4151	

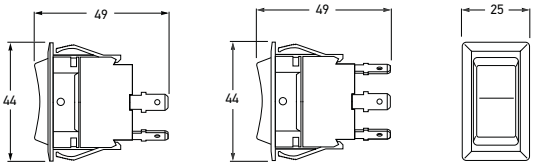
Heavy Duty Rocker Switches

Extremely robust Rocker Switch featuring push-on terminals and weather resistant black plastic housing. Panel push fit.



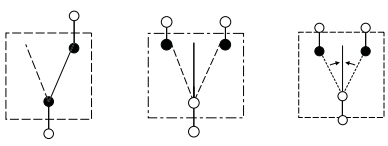


4483



4482 | 4483 and 4484

4482	6FH 905 364-001	OFF-ON
4483	6FH 905 364-011	ON-OFF-ON
4484	6GH 905 364-021 – **(Momentary spring return)**	(ON)-OFF-(ON)
Mounting	20 x 36mm opening	
For Panels	Up to 4mm thick	
Maximum Load	25A @ 12V DC 12.5A @ 24V DC	



4482 | 4483 | 4484

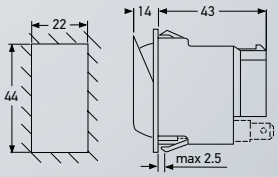
HELLA Universal Rocker Switches

HELLA universal flush-fit rocker switches are readily adaptable to 12V and 24V applications. This large and varied range covers nearly all switching types and connections. A wide selection of symbols ensures proper labelling of all main switching and monitoring functions. The switching and control displays can be illuminated.

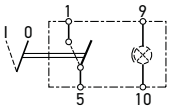


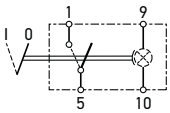
Mounting	Mounted directly to properly dimensioned opening (1 - 2.5mm thick) or by mounting panels (for more information see page 344).
Maximum Load	16A @ 12V, 8A @ 24V.

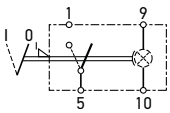
Connectors, symbols, mounts and globe holders are to be purchased separately.





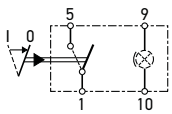


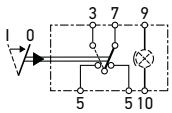


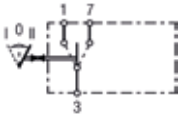


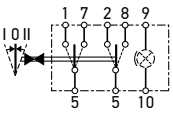
Location lamp illuminates lamp with park lights. Pilot lamp illuminates when switch is in the 'on' position.

ON-OFF SWITCHES			
	Symbol	**Description**	**Function**
6EH 007 832-011	LOCATION	Suitable for use with location light	ON-OFF
6EH 007 832-021	PILOT LOCATION	Suitable for use with location and pilot light	
6EH 007 832-041	PILOT LOCATION	With mechanism for blocking operation. Suitable for use with location light and pilot light	



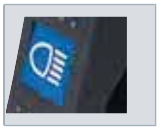






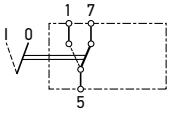
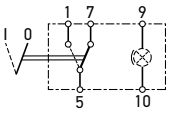
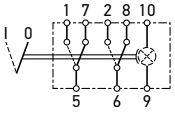
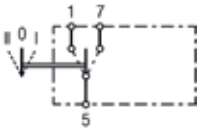
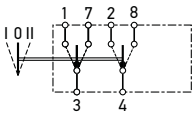
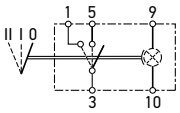
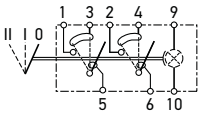
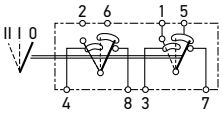
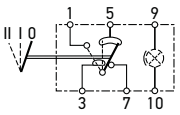
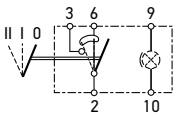
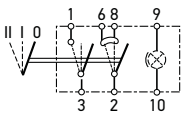
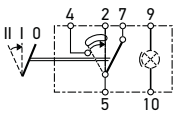
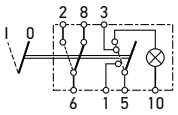
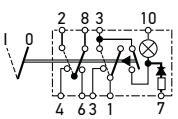
MOMENTARY SPRING RETURN SWITCHES			
6GM 007 832-191	LOCATION	Suitable for use with location light	OFF-(ON)
6GM 007 832-221	LOCATION	Suitable for use with location light	CHANGE-OVER
6GM 007 832-231		Without location light, without pilot light	CHANGE-OVER
6GM 007 832-251	LOCATION	Suitable for use with location light	(ON)-OFF-(ON)



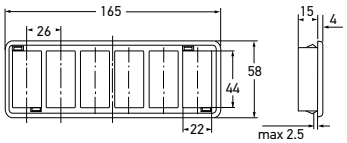


See page 302 for the range of coloured symbols.

CHANGE-OVER SWITCHES

	Symbol	Description	Function	
6FH 007 832-051		Without location light, without pilot light	ON-ON	
6FH 007 832-061	LOCATION	Suitable for use with location light		
6FH 007 832-101	PILOT LOCATION	Suitable for use with location light and pilot light		
6FH 007 832-131		Without location light, without pilot light	ON-OFF-ON	
6FH 007 832-161		Without location light, without pilot light	ON-OFF-ON	
6RH 007 832-351	PILOT LOCATION	Suitable for use with location light and pilot light	OFF-ON-ON	
6RH 007 832-377	PILOT LOCATION	Suitable for use with location light and pilot light		
6RH 007 832-381		Without location light, without pilot light		
6RH 007 832-391	LOCATION	Max. load 16A @ 12V, 8A @ 24V. Suitable for use with location light, without pilot light		
6RH 007 832-441	LOCATION	Suitable for use with location light		
6RH 007 832-461	LOCATION	Suitable for use with location light		
6RH 007 832-411	LOCATION	Suitable for use with location light.	OFF-ON-MOMENTARY ON	
6HH 007 832-281	PILOT	Max. load 10A @ 12V and 24V. Without location light. Includes pre-fitted 12V globe. Hazard flasher switch.	HAZARD	
6HH 007 832-301	PILOT LOCATION	With location light and pilot light. Includes pre-fitted 24V globe. Hazard flasher switch.		

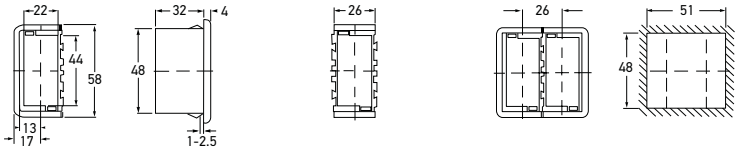
Mounting Panels for Universal Rocker Switches





8HG 713 626-001 (156.1 x 48.2mm) – Mounting Panels	SIX SWITCHES
8HG 714 504-001 (77.6 x 48.2mm) – Mounting Panels	THREE SWITCHES

Modular Mounting Panel System for Universal Rocker Switches



8HG 716 734-001 8HG 716 735-001



8HG 716 735-001 | 8HG 716 734-001

8HG 716 734-001 – Modular Mounting Panel System	END PIECE
8HG 716 735-001 – Modular Mounting Panel System	MIDDLE PIECE

Two end pieces are required to make a mounting panel.
By adding middle pieces, this panel can be extended as required.

Blanking Plug for Universal Rocker Switches



9HB 713 629-001 – Blanking Plug for Empty Switch Apertures

Warning Lights for Universal Rocker Switches



2AA 713 628-021 – Warning Lights		**12 VOLT**
2AA 713 628-031 – Warning Lights		**24 VOLT**
2AA 713 628-041 – LED Warning Lights		**12/24 VOLT DC**
Globes to Suit	12V	W121.2
	24V	W241.2



Side view

Warning Lights for Universal Rocker Switches



9FF 713 627-001 – Warning Lights		**12 VOLT**
9FF 713 627-011 – Warning Lights		**24 VOLT**
9FF 713 627-031 – LED Warning Lights		**12/24 VOLT DC**
Globes to Suit	12V	W121.2
	24V	W241.2

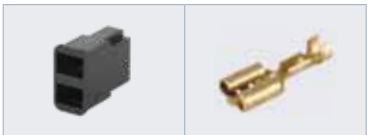


9FF 713 627-011 | 9FF 713 627-031 (LED)

Connectors for Universal Rocker Switches



8JA 713 631-001 – Connectors for switch		**8 POLE**
8JA 715 600-001 – Connectors for globe holder		**2 POLE**
8573	8KW 905 512-031 – Connectors - Pack of 100	**BRASS TERMINALS**



8JA 715 600-001 | 8573

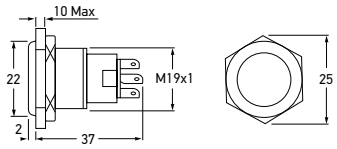
Symbol Cards for HELLA Universal Rocker Switches 007 832...

	Symbol	Symbol Card
9XT 713 630-001	Green	Without symbol
9XT 713 630-011	Black	Without symbol
9XT 713 630-021	Red	Without symbol
9XT 713 630-031	Yellow	Without symbol
9XT 713 630-301		Light
9XT 714 300-131		Main beam
9XT 713 630-351		Fog lamp
9XT 713 630-421		Work lamp front
9XT 713 630-701		Work lamp rear
9XT 714 300-141		Flasher lamp
9XT 713 630-391		Warning lamp
9XT 713 630-511		Map lamp
9XT 713 630-491		Driving compartment lighting
9XT 713 630-641		Boot lighting
9XT 713 630-261		Main light
9XT 713 630-371		Work light
9XT 713 630-281		Rotating beacon
9XT 713 630-711		Rotating beacon
9XT 714 300-181		Lubrication
9XT 714 300-011		Parking brake
Interior Lighting		
9XT 713 630-271		High
9XT 714 300-031		Medium
9XT 713 630-501		Low

	Symbol	Symbol Card
9XT 714 300-201		Battery
9XT 714 300-191		Temperature
9XT 713 630-181		Window lift
9XT 713 630-101		Windscreen
9XT 713 630-121		Window wiper/wash
9XT 713 630-131		Windscreen wash
9XT 713 630-231		Heated rear window
9XT 713 630-481		Heated outside mirror
9XT 713 630-521		Defroster
9XT 713 630-461		Air horn
9XT 713 630-291		Fresh air
9XT 713 630-681		Roof fan
9XT 713 630-201		Heater
9XT 713 630-221		Heater fan
9XT 713 630-401		Fast
9XT 713 630-691		Slow
9XT 713 630-551		Front door
9XT 713 630-561		Rear door
9XT 713 630-621		Lower
9XT 714 300-051		Change-over tanks
Fan		
9XT 713 630-251		Fast
9XT 713 630-531		Slow

Stainless Steel Latching Switches with LED Ring Off-On

Durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.



8HG 958 455-001 – 12 Volt DC	RED
8HG 958 455-011 – 12 Volt DC	BLUE
8HG 958 455-101 – 24 Volt DC	RED
8HG 958 455-111 – 24 Volt DC	BLUE
Mounting	19mm diameter opening
Maximum Load	5A
Protection	IP 67 (Protection against dust and temporary water immersion). From front when mounted.
For Panels	Up to 10mm thick.

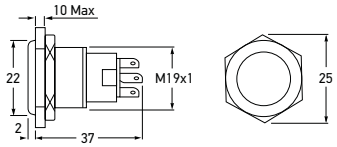




8HG 958 455-011

Stainless Steel Momentary Switches with LED Ring Off-(On)

Durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.



8HG 958 455-201 – 12 Volt DC	RED
8HG 958 455-211 – 12 Volt DC	BLUE
8HG 958 455-301 – 24 Volt DC	RED
8HG 958 455-311 – 24 Volt DC	BLUE
Mounting	19mm diameter opening
Maximum Load	5A
Protection	IP 67 (Protection against dust and temporary water immersion). From front when mounted.
For Panels	Up to 10mm thick





8HG 958 455-211

Stainless Steel Buzzers with LED Ring

Durable, 304 Stainless Steel Warning Buzzer to match stainless steel switches. Also features a ring of LED light.

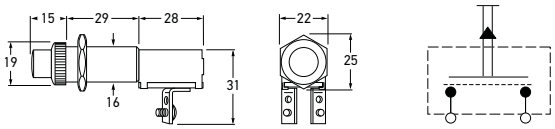


8HG 958 456-001 – 12 Volt DC	RED
8HG 958 456-101 – 24 Volt DC	RED
Mounting	19mm diameter opening
Sound Level	>80dB (1m)
Protection	IP 50 (Protection against dust)
For Panels	Up to 10mm thick

Momentary Spring Return Push Button Starter Switch Off-(On)

Brass construction. Chrome plated face nut and button. Off-momentary on push button (spring return).



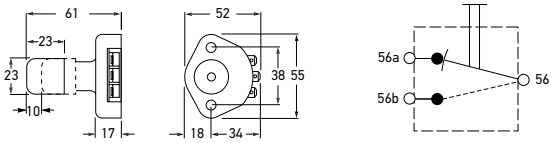


2763	6JF 905 311-001	OFF-(ON)
Mounting	16mm diameter opening	
For Panels	Up to 25mm thick	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

Foot Operated Dipper Switch

Push on terminals. Latching spring return mechanism.



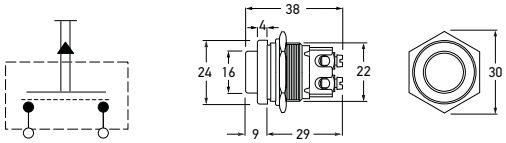


4100	6EJ 905 344-001	ON-ON
Mounting	Surface mount	
Maximum Load	12A @ 12V DC 6A @ 24V DC	

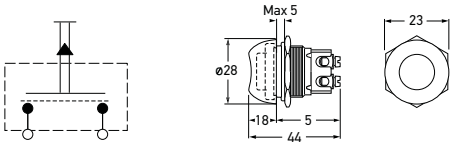
Momentary Spring Return Push Button Switch Off-(On)

Off-momentary on push button (spring return) switch.





4501	6JF 001 571-002	OFF-(ON)
Mounting	22.5mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	16A @ 12V DC 8A @ 24V DC	

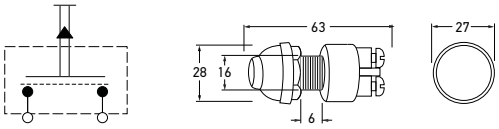


4503	6JF 001 571-003	OFF-(ON)
Mounting	22.5mm diameter opening	
For Panels	Up to 2mm thick	
Maximum Load	16A @ 12V DC 8A @ 24V DC	
Do not remove rubber cap/front face nut when fitting.		

Momentary Spring Return Push Button Switch Off-(On)

Water resistant push button type switch with rubber cap. Off-momentary on push button (spring return).





4506	6JB 905 371-001	OFF-(ON)
Mounting	16mm diameter opening	
For Panels	Up to 10mm thick	
Maximum Load	60A @ 12V DC 40A @ 24V DC	

Momentary Spring Return Push Button Switch Off-(On)

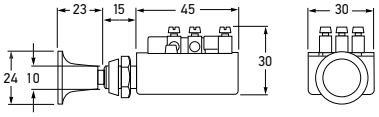
Water resistant starter switch.
Off-momentary on push button (spring return).



Headlamp Switch Off-On-On

Three position headlamp switch without pilot lamp. Features black grip and 20 amp glass fuse.



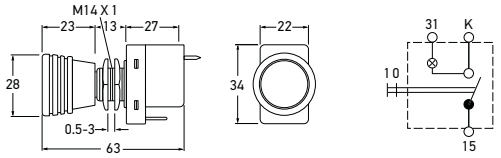


4055	6RD 905 343-001	OFF-ON-ON
Mounting	11mm diameter opening	
For Panels	Up to 10mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	

Illuminated Switches Off-On

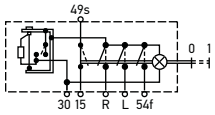
Knob incorporates red or green pilot lamp.

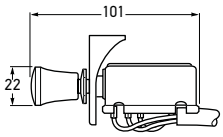


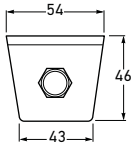


4411	6ED 004 778-023	GREEN
4412	6ED 004 778-013	RED
Mounting	14mm diameter opening	
For Panels	Up to 6mm thick	
Maximum Load	10A @ 12V DC 5A @ 24V DC	
Globes to Suit	12V DC W121.2 Globe to be ordered separately. 24V DC W241.2 Globe to be ordered separately.	







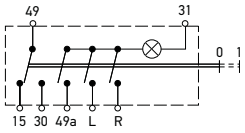


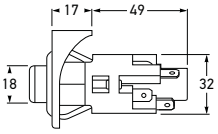
5225	6HD 002 535-032	12V DC
Mounting	12mm diameter opening	
Voltage	12V DC (Globe included)	
For Panels	Up to 7mm thick	
Globes to Suit	12V DC W121.2 24V DC W243	
Note	Not suitable for extended periods of continuous use	

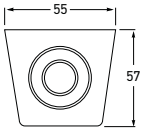
Hazard Warning Switch

Operates all the flasher lamps of a 12V DC or 24V DC vehicle (and trailer) simultaneously. Red knob with pilot lamp. Complete with cables, terminals and wiring instructions for easy installation.









5227	6HF 001 579-051	OFF-ON
Mounting	29mm diameter opening	
Maximum Load	7A @12V DC	
For Panels	Up to 3mm thick	
Globes to Suit	12V DC J122 Globe to be ordered separately. 24V DC J243 Globe to be ordered separately.	

Hazard Warning Switch

For cars, trucks, buses with and without trailers. Black plastic mounting panel. Red knob with pilot lamp. Includes 8 pole multiple adaptor. Push-on 6mm terminals supplied. Wiring diagram and instructions are included.



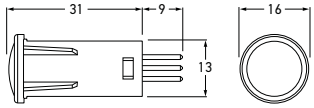
Pilot Lamps 12 Volt

Panel push fit Pilot Lamp with non-replaceable globe.





2709 | 2710 | 2711



Globe Included 12V GLOBE INC

2708	2AA 905 300-001	RED
2709	2AA 905 300-011	GREEN
2710	2AA 905 300-021	BLUE
2711	2AA 905 300-031	AMBER
Mounting	12.5mm diameter opening	
Voltage	12V DC	
Suitable for 12V DC only. Globe not replaceable.		

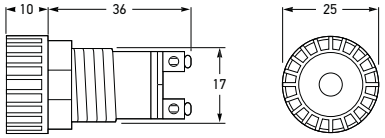
Pilot Lamps 12 Volt

Pilot Lamp utilising bayonet based globe for use under heavy duty conditions.





2713 | 2714 | 2715



Globe Included 12V GLOBE INC

2712	2AA 905 301-001	RED
2713	2AA 905 301-011	GREEN
2714	2AA 905 301-021	BLUE
2715	2AA 905 301-031	AMBER
Mounting	17mm diameter opening	
Globes to Suit	12V DC H122 (included) 24V DC H242	

LED Pilot Lamps 12/24V AC/DC

Heavy duty multi-chip LED Pilot Lamp featuring shock-resistant one-piece construction for long service life and polycarbonate lens.

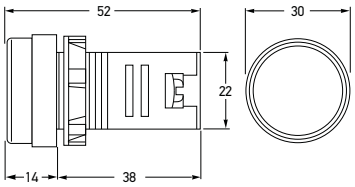




2717 | 2718



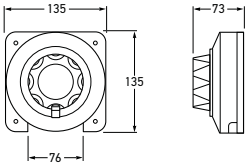
2719 | 2720



Globe Included 24V GLOBE INC

Globe Included 12V GLOBE INC

2716	2AA 910 233-041 – 12V AC/DC	RED
2716-24V	2AA 910 233-101 – 24V AC/DC	
2717	2AA 910 233-031 – 12V AC/DC	GREEN
2717-24V	2AA 910 233-091 – 24V AC/DC	
2718	2AA 910 233-011 – 12V AC/DC	AMBER
2718-24V	2AA 910 233-061 – 24V AC/DC	
2719	2AA 910 233-051 – 12V AC/DC	WHITE
2719-24V	2AA 910 233-111 – 24V AC/DC	
2720	2AA 910 233-021 – 12V AC/DC	BLUE
2720-24V	2AA 910 233-071 – 24V AC/DC	
Mounting	22mm diameter opening	
For Panels	Up to 38mm thick	
Voltage	12V or 24V AC/DC	
Protection	IP 65 (Protection against dust and water jets) when installed	

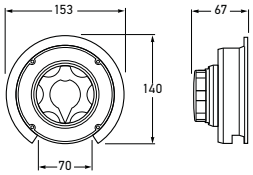


Heavy Battery Master Switch

Enables switching between battery 1 and 2 or linking up of both batteries for extra power. May also be used as a manual isolator for charging batteries.



2765	6EK 005 519-002	OFF-1-2-BOTH
Maximum Load	175A @12V DC Continuous 87.5A @ 24V DC Continuous	
Function	4-position switch (off-1-2-both)	

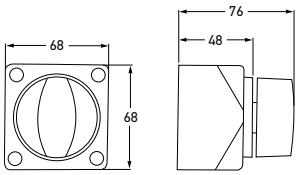


Dual Battery Master Switch - Weatherproof

For 6-36V DC battery systems with alternators or generators. Water and vapour resistant.



2767	6EB 950 870-001	OFF-1-2-BOTH
Mounting	Surface mount. or 84mm diameter opening	
Maximum Load	500A at 12V DC for 10 seconds 250A at 24V DC for 10 seconds 310A at 12V DC continuous 155A at 24V DC continuous	
Function	4-position switch (off-1-2-both)	
For Panels	Up to 25mm thick.	



Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key.

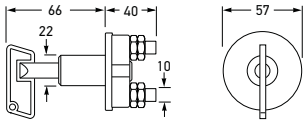


4640	9SL 998 540-002	OFF-ON
Mounting	Recess or surface mount	
Maximum Load	12/24V DC	1250A for up to 10 seconds
Maximum Continuous Load	12/24V DC	275A
Termination	2 x 10mm studs	
Protection	IP 56	
Spare Part	4641	Spare key

Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key.



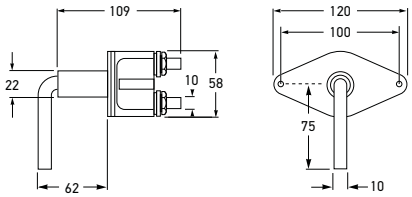


4650	6EK 002 843-057	OFF-ON
Mounting	24mm diameter opening	
Maximum Load	12V DC 1000A for up to 10 seconds 24V DC 500A for up to 10 seconds	
Maximum Continuous Load	12/24V - 50A at a maximum ambient temperature of 80°C with 35mm² lead, connected with ring-type terminals.	
Termination	2 x 10mm studs.	
Protection	IP X4 (Protection against water splashing)	
Spare Part	4652 Spare key	
Switch not designed for Marine applications.		

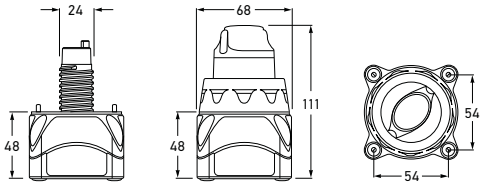
Heavy Duty Battery Master Switch

For trucks, buses and earth moving equipment. Complete with removable key.





4653	6EK 001 559-002	OFF-ON
Mounting	22mm diameter opening	
Maximum Load	12V DC 5000A for 10 seconds. 24V DC 2500A for 10 seconds	
Maximum Continuous Load	12/24V DC 100A continuous at a maximum ambient temperature of 60°C with 50mm² lead connected with ring-type terminals	
Termination	2 x 10mm studs	
Protection	IP X4 (Protection against water splashing)	
Spare Part	4654 Spare key	
Switch not designed for Marine applications.		

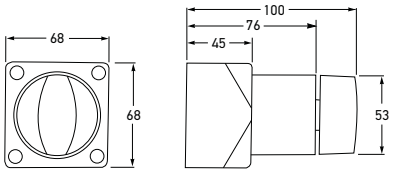


Battery Master Switch

Battery Master Switch with threaded collar. Suitable for cars and medium sized trucks. Complete with removable key, labelled handle and removable back cover.



4722	9SL 980 833-001	OFF-ON
Mounting	Recess or surface mount. 25mm diameter opening	
Maximum Load	12/24V DC 1250A for up to 10 seconds	
Maximum Continuous Load	12/24V DC 275A	
Termination	2 x 10mm studs	
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)	

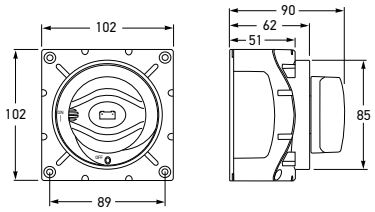


Remote Operated Battery Master Switch

Battery switch with tin-plated copper studs and nuts. Can be operated manually or remotely with a separate switch (not supplied). Suitable for mounting alongside battery reducing cable lengths to starter motor. Complete with removable key and 3 way DTM plug.



4724	6EN 980 835-001	OFF-ON
Mounting	Recess or surface mount. 55mm diameter opening	
Voltage	12/24V DC	
Power Consumption	2W @ 12V DC when operating, 0.25W static	
Maximum Load	12/24V DC 1250A for up to 10 seconds	
Maximum Continuous Load	12/24V DC 275A	
Termination	2 x 10mm studs	
Cable Length	500mm	



Heavy Duty Battery Master Switch

For commercial use. Features sliding contact for self cleaning.



4720	6EK 998 540-062	OFF-ON
Mounting	Recess or surface mount. 85mm diameter opening	
Maximum Load	12/24V DC 2500A for up to 10 seconds	
Maximum Continuous Load	12/24V DC 600A	
Termination	2 x 12mm studs	
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)	

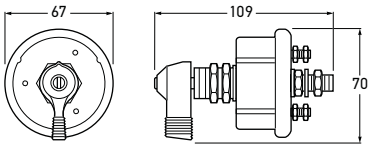
Battery Master Switches

Double-pole, 2-position (off-on) Battery Master Switch with plated steel case designed to disconnect both battery and field circuit. Actuated by chrome-plated die-cast lever. Part No. 4643 features silver laminated contacts.





1 4645 2 4646

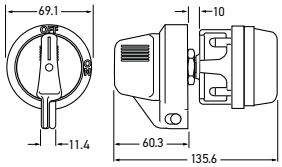


4642	6EK 905 424-001	
4643	6EK 905 424-011	■ SILVER CONTACTS
Mounting	19mm diameter opening	
Maximum Load	1000A at 6-36V DC intermittent	
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)	
For Panels	Up to 4.75mm thick	
Spare Part	4645 Key 1	
Accessories	4646 Face Plate 2	

Battery Master Lockout Switches - 2 Pole

Heavy duty 2-pole lockable battery lockout switch. The battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations.

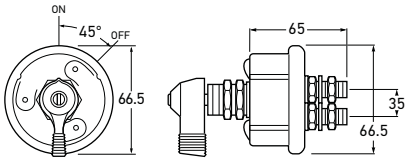




HM7592B	9MK 910 109-001	■ RED HANDLE
HM7592Y	9MK 910 109-011	■ YELLOW HANDLE
Mounting	Sealed design allows switch to be mounted in the best location regardless of environment	
Operating Temp.	-40°C to +85°C	
Maximum Continuous Load	300A at 12V DC continuous 250A at 24V DC continuous	
Protection	Waterproof and dustproof to IP67.	

Battery Master Lockout Switch - 4 Pole

Heavy duty 4-pole lockable battery lockout switch. The battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations. Isolates of both positive and negative sides from the battery, or isolation of two circuits with only one switch.

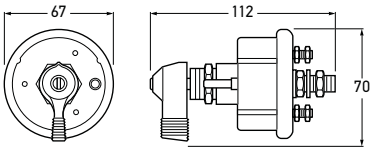


HM7591S	9MK 910 109-201
Mounting	19mm diameter opening
Operating Temp.	-40°C to +29°C
Maximum Load	125A at 6-36V DC continuous
Protection	Waterproof and dustproof to IP67



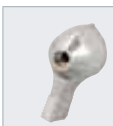
Battery Master Switch - Silver Contacts - Weatherproof

Weatherproof double-pole, 2-position (off-on) Battery Master Switch featuring plated steel case, silver laminated contacts and O-ring seal to protect from dirt and moisture. Also features index pin to align unit and prevent rotation.



4644	6EK 905 424-021	■ SILVER CONTACTS
Mounting	19mm diameter opening	
Maximum Load	1000A at 6-36V DC intermittent	
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)	
For Panels	Up to 6.75mm thick	
Spare Part	4645	Key (1)
Accessories	4646	Face Plate (2)





(1) 4645

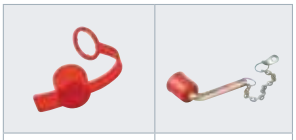


(2) 4646

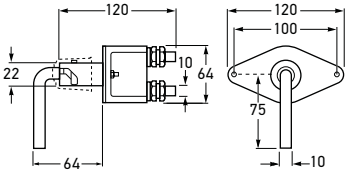
Heavy Duty Battery Master Switch

Extremely robust, single-pole (2 post) Battery Master Switch featuring double-cut copper contacts. Supplied complete with removable handle, security chain and PVC protective cover. Suitable for industrial vehicles and agricultural machinery.





1 4655COV | 2 4655KEY

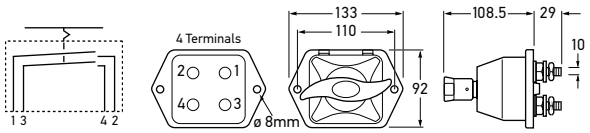


4655	6EK 905 397-001	
Mounting	24mm diameter opening	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Protection	IP 66	
Spare Parts	4655COV 4655KEY	Strap & PVC Protective Cover 1 Handle, Chain & Protective Cover 2

Heavy Duty Battery Master Switch

Extremely robust, double-pole (4 post) Battery Master Switch featuring corrosion-resistant zinc-plated housing and double-cut copper contacts. Suitable for industrial and agricultural vehicles.



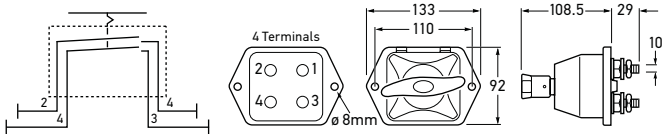


4657	6EK 905 249-001
Mounting	82mm x 77mm opening Mounting hole diameter 8mm
Maximum Load	2500A at 12-24V DC for 5 seconds
Maximum Continuous Load	250A at 12-24V DC continuous
Termination	2 x 12mm studs
Protection	IP 65

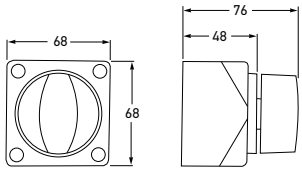
Heavy Duty Battery Master Switch - Weatherproof

Extremely robust, double-pole (4 post) Battery Master Switch with corrosion-resistant zinc-plated housing and double-cut copper contacts. Specifically designed for marine applications featuring additional white surface protection coating for extended durability.





2769	6EK 905 250-001
Mounting	82mm x 77mm opening Mounting hole diameter 8mm
Maximum Load	2500A at 12-24V DC for 5 seconds
Maximum Continuous Load	250A at 12-24V DC continuous
Termination	2 x 12mm studs
Protection	IP 65

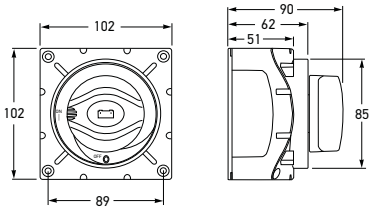


4723	9SL 980 834-001		OFF-B1-BOTH-B2
Mounting	Recess or Surface Mount		
Maximum Load	12/24V DC	1000A for up to 10 seconds	
Maximum Continuous Load	12/24V DC	200A	
Termination	3 x 5/16" studs		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		

Battery Selector Switch

Battery Switch to select either from two power sources or combine together. It will also isolate from the power sources.





4721	6EB 998 540-202		OFF-B1-BOTH-B2
Mounting	Recess or Surface Mount. 85mm diameter opening		
Maximum Load	12/24V DC	1500A for 10 seconds	
Maximum Continuous Load	12/24V DC	350A	
Termination	3 x 10mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		
Switch can be locked using 6mm diameter padlock with 75mm reach.			

Battery Selector Switch

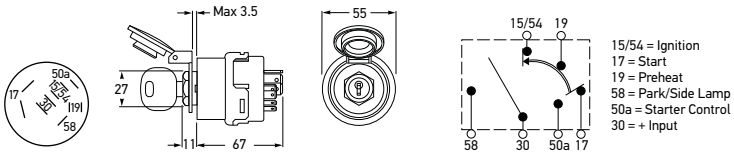
Battery Switch to select either from two power sources or combine together. It will also isolate from the power sources.



Diesel Pre-Heating Starter Switch

Pre-Heating Starter Switch supplied with two keys. Key removes in park and off.





4005	6JB 003 959-002
Mounting	26.5mm diameter opening
For Panels	Up to 3.5mm thick
Function	5 position switch (park, off, driving, pre-heat, start)

TERMINAL	POSITION	FUNCTION	CURRENT @ 24V
30-58	P	Park Lamps	4A
30-15/54	1	Driving	18A
30-19	2	Preheat	35A
30-50a/17	3	Start	5A/35A

Ignition and Starter Switch

Switch with spring loaded return. Supplied with two keys.



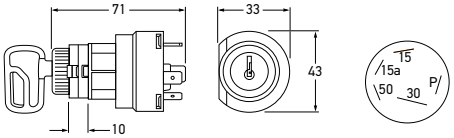


4008	6JB 950 505-001
Mounting	19mm diameter opening
For Panels	Up to 19mm thick
Maximum Load	@12V ignition 25A, start 12A, accessory 15A
Spare Part	Blank key number Silica BH4
Function	Four position switch (accessory, off, ignition, start)

Heavy Duty Ignition and Starter Switch

Heavy Duty Ignition and Starter Switch, featuring plastic outer construction for maximum protection against damage. Supplied with two keys.

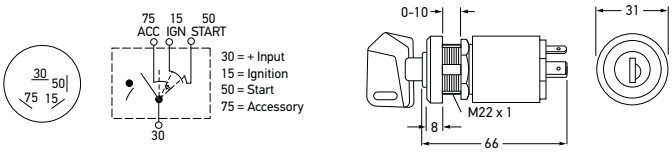




4008HD	6JK 905 339-001
Mounting	19mm diameter opening.
For Panels	Up to 10mm thick
Maximum Load	@12V park 2A, ignition 20A, start 25A., accessory 30A
Function	Four position switch (park, off, ignition, start). Key removes in park and off

Ignition and Starter Switches

Two keys supplied. Start-lockout mechanism to prevent accidental engagement of starter.

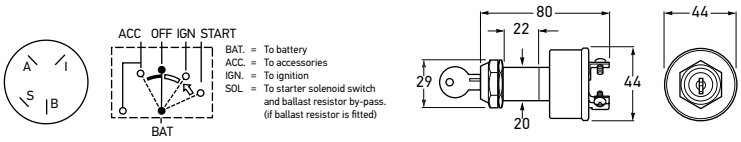




4009	6JK 950 838-001	22MM SHAFT
4010	6JK 905 340-001	18MM SHAFT
Mounting	4009 22.5mm diameter opening 4010 18.5mm diameter opening	
For Panels	Up to 19mm thick	
Maximum Load	@12V ignition 25A, start 50A, accessory 20A	
Function	Four position switch (accessory, off, ignition, start)	

Ignition and Starter Switch

Switch with spring-loaded return. 4 screw terminals and satin finish. Corrosion-resistant brass construction.

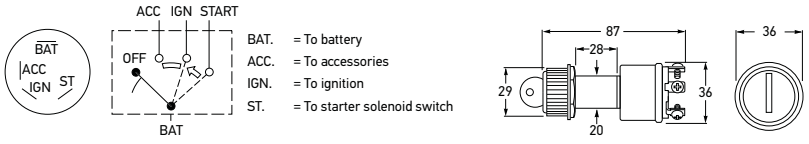




2760	6JB 905 308-001
Mounting	21mm diameter opening
For Panels	Up to 30mm thick
Maximum Load	@12V ignition 10A, start 5A, accessory 10A
Function	Four position switch (accessory, off, ignition and start)

Ignition and Starter Switch

Four position switch with spring loaded return. Four screw terminals.



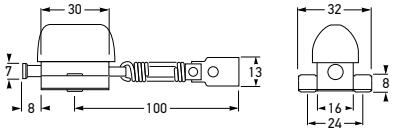


2766	6JB 905 313-001
Mounting	21mm diameter opening
For Panels	Up to 25mm thick
Maximum Load	@12V ignition 10A, start 5A, accessory 10A
Function	Four position switch (accessory, off, ignition and start)

Stop Lamp Switch Off-On

Normally open, contacts are closed when tension is applied to the spring. Complete with splash proof rubber cap. Brake linkage clamp 6mm diameter.



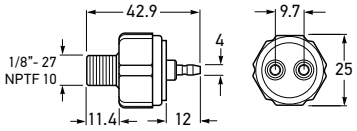


4560	6DD 905 374-001	OFF-ON
Maximum Load	10A @ 12V DC 5A @ 24V DC	

Stop Lamp Switch Hydraulic

1/8" x 27 NPT thread.



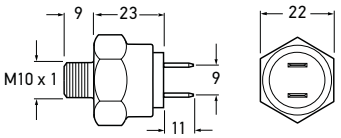


4566	6DL 905 375-011	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 1997725, No. LC6870, No. P7715	
Suits	GMH, Ford, Chrysler, and Dodge	
Actuating Pressure	3.7-8.2 Bar	
Note	Only suitable for use with brake fluid (not silicone based)	

Stop Lamp Switch Hydraulic

M 10 x 1 thread.

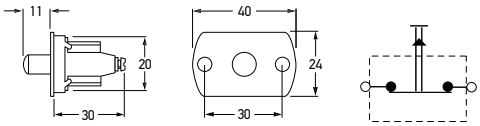




4567	6DL 905 375-021	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 113 945 515C	
Suits	Volkswagen to 1970	
Actuating Pressure	3-6 Bar	
Note	Only suitable for use with brake fluid (not silicone based)	

Door Contact Switch On-Off

Switch closes circuit if door is opened.

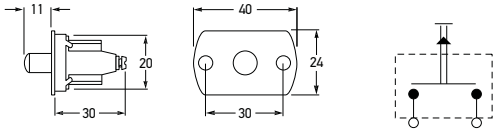




4550	6ZF 003 549-003	ON-OFF
Mounting	21mm diameter opening.	
Maximum Load	2A @ 12V DC 1A @ 24V DC	

Door Contact Switch Off-On

Switch opens circuit if door is opened.
May be used as safety cut-off switch.

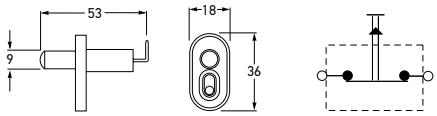




4551	6ZF 003 549-022	OFF-ON
Mounting	21mm diameter opening.	
Maximum Load	2A @ 12V DC 1A @ 24V DC	

Door Contact Switch On-Off

Switch closes circuit if door is opened.
Corrosion proof black plastic. Rubber seal.
Push-on terminal.



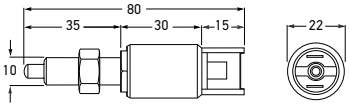


4553	6ZF 905 373-001	ON-OFF
Mounting	12mm diameter opening and screw	
Maximum Load	3.5A @ 12V DC	
Plunger automatically adjusts to door gap on initial operation		

Stop Lamp Switch On-Off

Thread M10 x 1.25. Suits early Japanese vehicles.



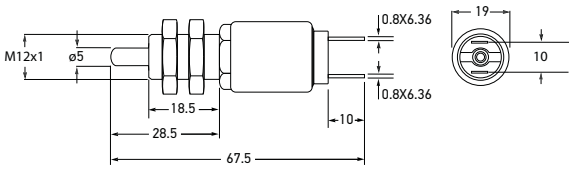


4562	6DF 007 365-001	ON-OFF
Maximum Load	10A @ 12V DC	

Stop Lamp Switch Mechanical

M 12 x 1 thread.



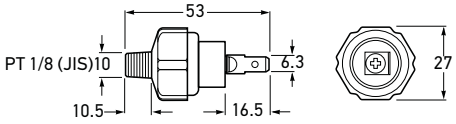


4570	6EZ 905 376-021	ON-OFF
Maximum Load	5A @ 12V DC 2.5A @ 24V DC	
Replaces	Original No. 7438915	

Oil Pressure Switch

1/8" x 28 BSP thread.





4571	6ZL 905 376-031
Actuating Pressure	0.14 - 0.48 Bar

Oil Pressure Switch

1/4" x 18 NPTF thread.



4574	6ZL 905 376-041
Actuating Pressure	0.14 - 0.48 Bar

Wideband Oxygen Sensor

M18x1.5 thread, terminated with 6-Pole industry standard plug. Suits use with aftermarket monitoring systems and gauges. Also suits VW, Audi and other vehicle applications from 2006 onwards using a wideband sensor.



6PA 009 166-791 – Wideband Oxygen Sensor	**800 MM CABLE**
6PA 009 166-821 – Wideband Oxygen Sensor	**1500 MM CABLE**
Mounting	Standard M18x1.5 Exhaust Fitting
Connection	Cable length as noted, terminated with standard 6-pole connection plug
OE Number	03G 906 262 H (800mm Cable), 022 906 262 H (1500mm cable)

Exhaust Gas Temperature Sensor



Exposed probe



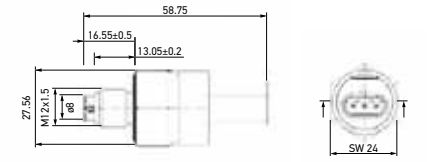
Shrouded probe

M14x1.5 thread, working temperature range up to 850°C. Right angle cable exit from sensor. Suits use with aftermarket monitoring systems and gauges. Also suits VW, Audi and other diesel vehicle applications from 2007 onwards.



6PT 014 494-041 – Exhaust Gas Temperature Sensor	**EXPOSED PROBE**
6PT 010 376-111 – Exhaust Gas Temperature Sensor	**SHROUDED PROBE**
Mounting	Standard M14x1.5 Exhaust Fitting
OE Number	03L 906 088 AJ (Exposed Sensor Probe), 03L 906 088 N (Shrouded Sensor Probe)

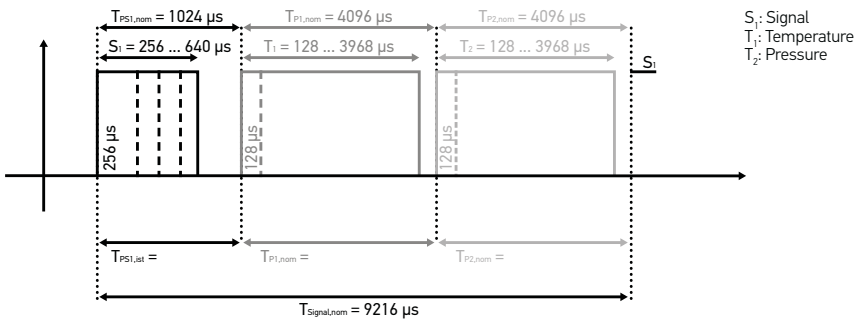
OPS+T (Oil Pressure and Temperature Sensor)



Sensor produces a special PWM Output signal combining oil temperature and output signals. M12x1.5 Thread, temperature measurement range from -40 to 160°C and pressure from 0.5 to 10.5 Bar. Also suits BMW and Volvo vehicle applications



6PP 010 378-101 – Combined Digital Oil Pressure and Temperature Sensor	
Mounting	M12x1.5 Thread
Signal Type	Shrouded sensor probe
Signal Type	Multi-Mode PWM Signal (See detail below)
Temperature Range	-40°C to 150°C, 160°C Maximum
Pressure Range	0.5 to 10.5 bar, 40 Bar Maximum Operating
Sampling Rate	3kHz
Response Time	2 ms
OE Number	12 61 8 613 333

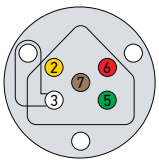


'Multi-Mode' PWM signals are used to communicate three different signals over PWM communication. A single PWM 'frame' is split into three closely linked pulses. The exact timing of each of the three pulses in the frame denotes the sensor outputs for fault signalling, oil temperature pressure respectively.

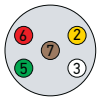
TOWING, TRAILER AND TRUCK WIRING CONFIGURATIONS

Common trailer lighting pin configurations used for different plugs and sockets are tabled and illustrated below.

5 Pole Round Light Duty Connector (AS2513)



Socket - Cable Entry View

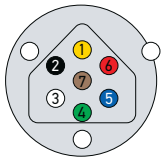


Plug - Cable Entry View

5 POLE ROUND LIGHT DUTY CONNECTOR (AS2513)		
Terminal No.	**Function**	**Colour**
2	Left-hand flasher lamps	Yellow
3	Earth return	White
5	Right-hand flasher lamps	Green
6	Stop lamps	Red
7	Rear position, number plate and clearance lamps	Brown

Note If separate earth cable is not used on vehicle, earthing strip supplied should be fitted into Terminal No. 3 of socket and under mounting screw as shown.

7 Pole Round Light Duty Connector (AS2513)



Socket - Cable Entry View

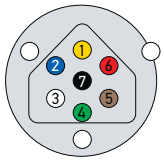


Plug - Cable Entry View

7 POLE ROUND LIGHT DUTY CONNECTOR (AS2513)		
Terminal No.	**Function**	**Colour**
1	Left-hand flasher lamps	Yellow
2	Reversing lamps	Black
3	Earth return	White
4	Right-hand flasher lamps	Green
5	Service brakes (or Auxiliary)	Blue
6	Stop lamps	Red
7	Rear position, number plate and clearance lamps	Brown

Note Where service brakes are not fitted, Terminal No. 5 is commonly used for auxiliary trailer power.

7 Pole Round Light Duty Connector (ISO1724)



Socket - Cable Entry View

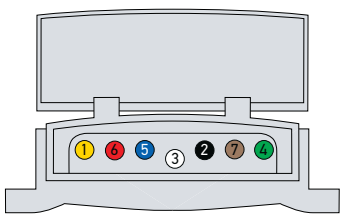


Plug - Cable Entry View

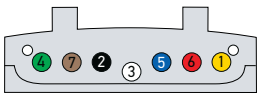
7 POLE ROUND LIGHT DUTY CONNECTOR (ISO1724)		
Terminal No.	**Function**	**Colour**
1	Left-hand flasher lamps	Yellow
2	Rear fog lamp	Blue
3	Earth return	White
4	Right-hand flasher lamps	Green
5	Right tail lamp, clearance lamp, sidelamp and number plate lamp	Brown
6	Stop lamps	Red
7	Left tail lamp, clearance lamp, sidelamp and number plate lamp	Black

Note Common hardware to AS2513 7 Pole Round connector, but accounts for separate right/left tail lamps and rear fog lamps. Also does not account for reversing lamps on the trailer.

7 Pole Flat Light Duty Connector (AS2513)



Socket - Cable Entry View

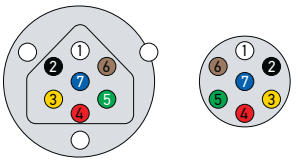


Plug - Cable Entry View

7 POLE FLAT LIGHT DUTY CONNECTOR (AS2513)		
Terminal No.	**Function**	**Colour**
1	Left-hand flasher lamps	Yellow
2	Reversing lamps	Black
3	Earth return	White
4	Right-hand flasher lamps	Green
5	Service brakes (or Auxiliary)	Blue
6	Stop lamps	Red
7	Rear position, number plate and clearance lamps	Brown

7 POLE ROUND HEAVY DUTY CONNECTOR (ISO1185)		
Terminal No.	**Function**	**Colour**
1	Earth return	White
2	Left tail lamp, clearance lamp, sidelamp and number plate lamp	Black
3	Left-hand flasher lamps	Yellow
4	Stop lamps	Red
5	Right-hand flasher lamps	Green
6	Right tail lamp, clearance lamp, sidelamp and number plate lamp	Brown
7	Control trailer brake	Blue

7 Pole Round Heavy Duty Connector (ISO1185)



Socket -
Cable Entry View

Plug -
Cable Entry View

7 POLE ROUND HEAVY DUTY CONNECTOR (SAE J560)		
Terminal No.	**Function**	**Colour**
1	Earth return	White
2	Clearance lamps/outline marker lamps, identification lamps	Black
3	Left-hand flasher lamps	Yellow
4	Stop lamps	Red
5	Right-hand flasher lamps	Green
6	Tail lamps and number plate lamps	Brown
7	Brake controller (or Auxiliary) Power	Blue

7 Pole Round Heavy Duty Connector (SAE J560)



Socket -
Cable Entry View

Plug -
Cable Entry View

7 POLE ROUND HEAVY DUTY CONNECTOR (AS4735)		
Terminal No.	**Function**	**Colour**
1	Earth return	White
2	Left tail lamp, clearance/outline lamp, identification and number plate lamp	Black
3	Left-hand flasher lamps	Yellow
4	Stop lamps	Red
5	Right-hand flasher lamps	Green
6	Right tail lamp, clearance/outline lamp, identification and number plate lamp	Brown
7	Reversing lamps	Blue

7 Pole Round Heavy Duty Connector (AS4735)



Socket -
Cable Entry View

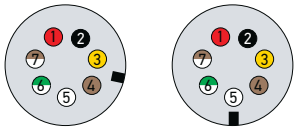
Plug -
Cable Entry View

7 POLE ABS/EBS CONNECTOR (ISO 7638-1 / ISO 7638-2)		
Terminal No.	**Function**	**Colour**
1	(+) 12V or 24V permanent for control valves	Red
2	(+) 12V or 24V via ignition lock for electronics	Black
3	Ground for electronics (Pin 2)	Yellow
4	Ground for control valves (Pin 1)	Brown
5	ABS Fault Indication	White
6	CAN H, for EBS and ABS	Green/White
7	CAN L, for EBS and ABS	Brown/White

This connector is intended to be used for ABS and EBS on heavy duty trailers. 12V ISO 7638-2 connector is identified with a key between pin 3 and 4, while 24V ISO 7638-1 connector is identified with a key at pin 5.

Multivolt™ Connector: Only to be used on Multivolt™ ABS/EBS systems. It is the responsibility of the user to ensure correct voltage compatibility and latch alignment. System created for 12V and 24V. We assume no liability for damage resulting from improper application.

7 Pole ABS/EBS Connector (ISO 7638-1 / ISO 7638-2)



12V Plug
Cable entry view
ISO 7638-2

24V Plug
Cable entry view
ISO 7638-1



Multivolt™ suzi coil comes with warning flags

7 Pole Metal Socket



Rubber Boot 9GD 735 641-001

4901	8JB 001 941-004 - Metal Housing	
4901BULK	8JB 001 941-005 - Metal Housing	PACK OF 25
Description	Metal housing with securing cap locks plug in position.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	
Accessory	9GD 735 641-001 Rubber boot	
Wiring Standards	AS2513, ISO1724 (Light duty)	

7 Pole Plastic Plug



4902	8JA 905 386-001 - Plastic Housing
Description	Black Plastic Plug with strain relief.
Maximum Load	20A @ 12V (total). 10A @ 24V (total).
Wiring Standards	AS2513, ISO1724 (Light duty)

7 Pole Plastic Plug



4909	8JB 001 939-003 - Plastic Housing
Description	Simply stores in boot until required. Requires no permanent bumper mounting.
Maximum Load	20A @ 12V (total). 10A @ 24V (total).
Wiring Standards	AS2513, ISO1724 (Light duty)

7 Pole Metal Plug



4911	8JA 001 918-003 - Metal Housing	
4911BULK	8JA 001 918-004 - Metal Housing	PACK OF 25
Description	Metal housing.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	
Wiring Standards	AS2513, ISO1724 (Light duty)	

7 Pole Plastic Socket



4912	8JB 001 943-091 - Plastic Housing
Maximum Load	20A @ 12V (total). 10A @ 24V (total).
Accessory	9GD 735 641-001 Rubber boot
Wiring Standards	AS2513, ISO1724 (Light duty)

Rubber Boot 9GD 735 641-001

7 Pole Weatherproof Socket

Weatherproof 7 Pole round socket for light duty applications. Fully sealed including at cable entry and socket access door. Crimp style connections require a crimping tool to suit "VKS-Plus" style terminals.



8JB 910 032-041	
IP Rating	IPX7 and IPX9K
Wire Size	1.0 – 2.5mm^2
Standard	ISO 1724
Wiring Standards	AS2513, ISO1724 (Light duty)

7 Pole Flat Socket



4920	8JB 910 032-011
Maximum Load	20A @ 12V (total) 10A @ 24V (total)
Wiring Standards	AS2513 Flat (Light duty)

7 Pole Flat Weatherproof Socket

Weatherproof 7 Pole Flat socket for light duty applications. Fully sealed including at cable entry and socket access door. Crimp style connections require a crimping tool to suit "MCP 2.8" style terminals.



8JB 910 032-021	
IP Rating	IPX7 and IPX9K
Wire Size	1.5 - 2.5mm²
Wiring Standards	AS2513 Flat (Light duty)

7 Pole Flat Plug

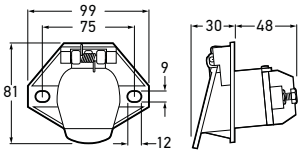
Mates with all standard 7 and 12 pole connectors.



4921	8JA 910 032-001	
4921-BULK	8JA 910 032-002	PACK OF 50
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	
Wiring Standards	AS2513 Flat (Light duty)	

2 Pole Socket - 200A

2 Pole Socket designed for applications with high current draw requirements. Easy to install and operates interdependently of lighting circuit.

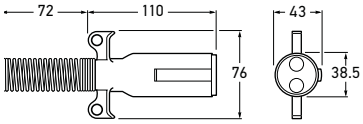




4941	8JB 905 394-011	SOCKET
Maximum Load	200A @ 12V	

2 Pole Plug - 200A

2 Pole Socket designed for applications with high current draw requirements. Easy to install and operates independently of lighting circuit.





4940	8JA 905 394-001	PLUG
Maximum Load	200A @ 12V	

7 Pole Heavy Duty Plug and Socket

Plug and Socket made from metal, with screw terminals (ISO 1185).

4907	8JB 003 833-002	SOCKET
4908	8JA 003 831-002	PLUG
Maximum Load	15A @ 24V with 1.5mm² cable (total) 20A @ 24V with 2.5mm² cable (total)	7 x 40A @ +12V 7 x 20A @ +24V
Suitability	4907 suits 4908, 4934 & 4934NY 4908 suits 4907, 4935 & 4935NY	
Wiring Standards	ISO 1185, SAE J560, AS4735	



4907

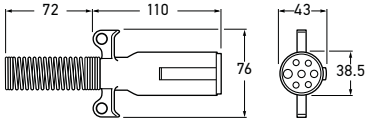


4908

7 Pole Heavy Duty SAE Plug - Metal

Heavy-duty 7 Pole Metal Plug manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. Features die-cast zinc housing, high-conductivity 100 percent brass floating pins held between sonic-welded inserts and spring cable guard for additional support and protection. Larger finger grips set back from the latched socket lid allow for safe and trouble-free disconnection.





4934	8JA 905 392-001	PLUG
Maximum Load	70A @ 12V	
Suits	Part No. 4907, 4935 and 4935NY	
Wiring Standards	ISO 1185, SAE J560, AS4735	

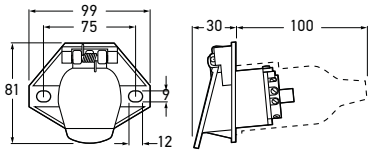
7 Pole SAE Socket - Metal

Heavy-duty 7 Pole Metal Socket die-cast in robust zinc and manufactured in accordance with AS 4375-2003 (ISO1185 & SAE J560B) standards. Features include full opening lid for ease of plug insertion and extended front barrel housing for added plug support. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Includes protective rubber boot, Part No. 4936.





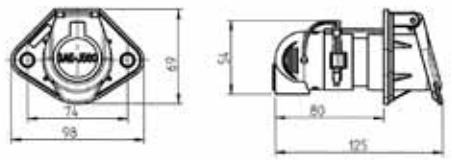
1 4936



4935	8JB 905 392-021	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part No. 4934 and 4934NY	
Spare part	4936 Protective Rubber Boot 1	
Wiring Standards	ISO 1185, SAE J560, AS4735	

7 Pole SAE Socket - Weatherproof

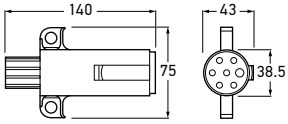
Weatherproof 7 Pole socket for heavy vehicle applications. Also suitable where a water-resistant socket is required (some hazardous goods applications). Fully sealed including at cable entry and socket access door. Crimp style connections require a crimping tool to suit "Double B-Crimp with seal" style terminals.



8JB 905 392-051	
IP Rating	IPX7 and IPX9K
Cable Size	AWG 10-12 (4.0-6.0 mm²) for all cables except earth, AWG 8 (10.0 mm²)
Wiring Standards	ISO 1185, SAE J560, AS4735



7 Pole SAE Plug - Nylon

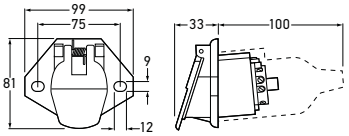


4934NY	8JA 905 392-011	PLUG
Maximum Load	70A @ 12V	
Suits	Part No. 4907, 4935 and 4935NY	
Wiring Standards	ISO 1185, SAE J560, AS4735	

Heavy-duty 7 Pole Plug manufactured in accordance with AS 4735-2003 (ISO1185 and SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to degreasers, solvents and contact cleaners. Other features include high-conductivity 100 percent brass pins, exclusive cable guard and 360 degree compression clamp creating a rear moisture seal, whilst also preventing accidental cable pull out.



7 Pole SAE Socket - Nylon



4935NY	8JB 905 392-031	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part No. 4934NY and 4934	
Spare Part	4936 Protective Rubber Boot (1)	
Wiring Standards	ISO 1185, SAE J560, AS4735	



(1) 4936

Heavy-duty 7 Pole Socket made from composite glass-filled nylon and manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to petrochemicals, solvents and contact cleaners. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Other features include full opening lid and extended front barrel housing for additional support and protection. Supplied complete with protective rubber boot, Part No. 4936.



ISO1185 / SAE J560 Socket / Lead Tester

8PD 004 508-011 - 7 Pin ISO1185 / SAE J560 Socket Tester	SOCKET
8PD 004 508-021 - 7 Pin ISO1185 / SAE J560 Plug Tester	PLUG
Wiring Standards	ISO 1185, SAE J560, AS4735

Circuit testers make diagnosing wiring and lighting issues on trailers quick and easy in the field. Socket testers check the status of connections on the vehicle while the plug tester can be used at the end of a connection lead attached to the vehicle output socket.



8PD 004 508-011



8PD 004 508-021

Suzi Coil with 7P ISO 1724 / AS 2513 Plugs

Cable outlet: PG Gland.
Outer Coil Diameter: 50mm.



8KA 227 440-101	
Housing	Silver coloured break-proof metal
Maximum Working Length	4.6m
Cable Outlet	PG Gland
Wire Cross Section Area	6 x 1.5 mm^2 + 1 x 2.5 mm^2
Tail Ends	Tail 1: 220 mm, Tail 2: 220 mm

Suzi Coil with 7P ISO 1724 / AS 2513 Plugs Long tail

Cable outlet: PG Gland.
Outer Coil Diameter: 50mm.



8KA 227 440-111 - Long Tail	
Housing	Silver coloured break-proof metal
Maximum Working Length	5.6m
Cable Outlet	PG Gland
Wire Cross Section Area	6 x 1.5 mm^2 + 1 x 2.5 mm^2
Tail Ends	Tail 1: 300 mm, Tail 2: 1300 mm

Suzi Coil with Heavy Duty 7P SAEJ 560 Plugs

These 7 pin spiral cable-plug assemblies are designed to provide a superior electrical connection between the Prime mover and trailer. The uni-molded connector bodies are extremely robust providing best in class performance and are completely unique to the market.

- High performance crimped contacts
- Integrated strain relief provides permanent kink protection
- Resistant to diesel fuel, engine coolant, engine oil, gear oil, water, salt, dirt, UV radiant and impact resistance.



8KA 905 392-041	
Housing	Uni-molded connector body seals out water and corrosive chemicals
Cable Outlet	Molded, bending protection
Wire Cross Section Area	4 x 3 mm^2 + 2 x 5 mm^2 + 1 x 8 mm^2
Max. Working Length	4m
Max. Extension Length	4.5m

Suzi Coil with 7P AS 2513 to SAE J560

Outer Coil Diameter: 50mm.
Maximum working length 4.6m.



8KA 227 440-141	
Housing	ISO plug: Silver coloured break-proof metal SAE plug: Reinforced composite plastic
Pins	7
Maximum Working Length	4.6m
Wire Cross Section Area	6 x 1.5 mm^2 + 1 x 2.5 mm^2
Tail Ends	Tail 1: 300 mm, Tail 2: 300 mm

Suzi Coil with 7P AS 2513 to SAE J560

Outer Coil Diameter: 50mm.
Maximum working length 5.6m.



8KA 227 440-151 - Long Tail	
Housing	ISO plug: Silver coloured break-proof metal SAE plug: Reinforced composite plastic
Pins	7
Maximum Working Length	5.6m
Wire Cross Section Area	6 x 1.5 mm^2 + 1 x 2.5 mm^2
Tail Ends	Tail 1: 300 mm, Tail 2: 1300 mm

7P Trailer Adaptor 13P to 7P

Mini Short Adaptor from vehicle 13P /12V to trailer 7P/12V.



8JA 227 440-121	
Current	16A
Housing	Reinforced Plastic
Contact Surface	Nickel

Straight Cable with 7P ISO 1724 / AS 2513 Plugs

Ideal for dog trailer.



8KA 227 440-131	
Housing	Break-proof silver coloured metal Housing plug with PVC cable
Cable Length	3m Maximum
Cable Outlet	PG Gland
Wire Cross Section Area	7 x 1.5 mm^2

7P/12V ABS/EBS Socket with Screw Contacts

Made of reinforced composite with cover and rubber seals, and high strength cable gland of the cable outlet.



8JB 227 440-011	
Operating voltage	12V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO7638-2

7P/12V ABS/EBS Plug with Screw Contacts

Made of reinforced composite with rubber seals. Mechanical strain relief.



8JA 227 440-031	
Operating voltage	12V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO7638-2

Suzi Coil with 7P/12V ABS/EBS Plug

Max 4.5m cable length with plug at both ends and bending protection grommet. Outer cable dia: 50mm.



8KA 227 440-051	
Operating voltage	12V DC
Pins	7
Max. Working Length	4m
Max. Extension Length	4.5m
Standard	ISO7638-2

7P/24V ABS/EBS Socket with Screw Contacts

Made of reinforced composite, with cover and rubber seals, and a high strength cable gland at the cable outlet. colour coded for easy installation.



8JB 227 440-021	
Operating voltage	24V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO 7638-1

7P/24V ABS/EBS Plug with Screw Contacts

Made of reinforced composite with rubber seals. Mechanical strain relief. colour coded for easy installation.



8JA 227 440-041	
Operating voltage	24V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO 7638-1

Suzi Coil with 7P/24V ABS/EBS Plug

Max 4.5m cable length with plug at both ends and bending protection grommet. Outer cable dia: 50mm.



8KA 227 440-061	
Operating voltage	24V DC
Pins	7
Max. Working Length	4m
Max. Extension Length	4.5m
Standard	ISO 7638-1

Suzi Coil without Plug

Working length: 4.5 meters.
Temperature range: -40°C to 100°C.
Outer coil diameter: 50mm.
Suitable for ABS/EBS connections with appropriate plugs



8JA 227 440-071	
Wire Cross Section Area	5 x 1.5mm² 2 x 4 mm²

Suzi Coil with 7P / Multivolt™ ABS/EBS Plug

Temperature range: -40°C to 100°C.
Outer Coil Diameter: 50mm.



8KA 227 440-081	
Operating Voltage	Multivolt™*
Pins	7
Maximum Working Length	8KA 227 440-081 4.5m
Wire Cross Section Area	5 x 1.5 mm² + 2 x 4.0 mm²
Tail Ends	8KA 227 440-081 Tail 1: 300 mm, Tail 2: 300 mm

*Caution: Operator must confirm voltage compatibility of prime mover and trailer.

Suzi Coil with 7P / Multivolt™ ABS/EBS Plug Long Tail

Temperature range: -40°C to 100°C.
Outer Coil Diameter: 50mm.



8KA 227 440-181 - Long tail	
Operating Voltage	Multivolt™*
Pins	7
Maximum Working Length	8KA 227 440-181 5.2m
Wire Cross Section Area	5 x 1.5 mm² + 2 x 4.0 mm²
Tail Ends	8KA 227 440-181 Tail 1: 300 mm, Tail 2: 1000 mm

*Caution: Operator must confirm voltage compatibility of prime mover and trailer.

7P / Multivolt™ ABS/EBS Plug

Made of reinforced composite, with cover and rubber seals, and a high strength cable gland at the cable outlet.



8JA 227 440-091	
Operating Voltage	Multivolt™*
Pins	7
Housing	Reinforced Composite
For Cable	11 mm to 18 mm
Contact Termination	Screw Contact

*Caution: Operator must confirm voltage compatibility of prime mover and trailer.

Park Socket

Used when Plug is not connected to actual socket to prevent the exposure to environment.



8HG 227 440-001	
Housing	Reinforced Composite
Suitable For	7P ABS/EBS Plugs 13P & 15P Plugs

ISO7638-1 ABS/EBS Socket Tester

Circuit testers make diagnosing wiring and lighting issues on trailers quick and easy in the field. The ABS/EBS Socket tester can be used on 24V and Multi-Volt ABS/EBS Sockets to confirm connectivity and functionality of the socket.

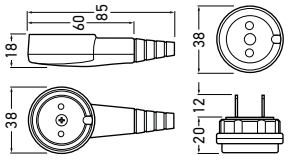


8PD 004 508-031 - 7 Pin ISO7638-1 Socket Tester	
Wiring Standards	ISO 7638-1 (24V)

Magcode® Power Outlet Systems

System with magnetically coded flat contacts. Port (outlet) and clip (connector) feature powerful magnets with integral switching function ensuring stable connection and safe power supply. Easy to install, 100 percent short circuit proof. Suits retro-fitting.



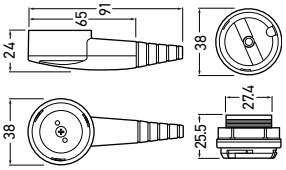


HMPS12VKIT	8KW 910 169-001		**POWER SYSTEM - 12V DC**
HMPS24VKIT	8KW 910 169-351		**POWER SYSTEM - 24V DC**
HMPS12VPT	8KW 910 170-021		**POWER PORT - 12V DC**
HMPS24VPT	8KW 910 169-341		**POWER PORT - 24V DC**
HMPS12VCP	8KW 910 168-001		**POWER CLIP - 12V DC**
HMPS24VCP	8KW 910 168-241		**POWER CLIP - 24V DC**
Mounting	28mm dia. (M28) opening		
Maximum Load	25A @ +20°C	25A @ +70°C	20A @ +85°C
Rated Voltage	12V DC	24V DC	
Locking Mechanism	Magnetic Connection		
Protection	Port (front side installed) IP6K9K Port (connection side) IP5K0	Clip (not connected) IP40 Clip (on port) IP42	

MagCode® Pro Power Outlet Systems

Advanced system for higher power circuits featuring additional mechanical twist lock for greater security (higher separation forces) and reliable prevention from arcing.

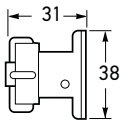




HMPSPR012VKIT	8KW 910 169-011		**POWER SYSTEM PLUS - 12V DC**
HMPSPR012VPT	8KW 910 170-011		**POWER PORT PLUS - 12V DC**
HMPSPR012VCP	8KW 910 168-011		**POWER CLIP PLUS - 12V DC**
Mounting	28mm dia. (M28) opening		
Maximum Load	26A @ +20°C	25A @ +70°C	20A @ +85°C
Rated Voltage	12V DC	24V DC	
Locking Mechanism	Magnetic Connection plus mechanical twist lock		
Protection	Port (front side installed) IP6K9K Port (connection side) IP5K0	Clip (not connected) IP40 Clip (on port) IP42	

2 Pole Socket

Chrome-plated 2-pin polarised. All-brass connection.

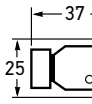




2741	8JB 950 987-001	SOCKET
Maximum Load	22A @ 12V	
Mounting	Surface Mount (3x3mm holes).	

2 Pole Plug

Chrome-plated 2-pin polarised. All-brass construction. Waterproof gland cable entry.

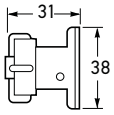




2742	8JA 950 988-001	SOCKET
Maximum Load	22A @ 12V	

4 Pole Socket

Chrome-plated 4-pin polarised. All-brass construction.

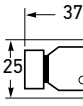




2744	8JB 950 989-001	SOCKET
Mounting	Surface Mount (3 x 3mm holes)	
Maximum Load	22A @ 12V	

4 Pole Plug

Chrome-plated 4-pin polarised. All-brass construction. Waterproof gland cable entry.

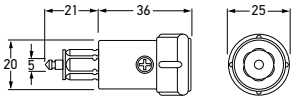




2745	8JA 950 990-001	PLUG
Maximum Load	22A @ 12V	

2 Pole Plug

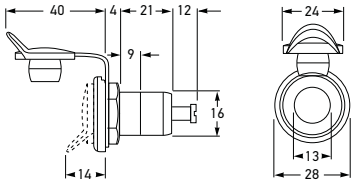




4914	8JA 002 262-021	PLUG
Maximum Load	16A @ 12V 8A @ 24V	
Sockets to Suit	Part No. 4915, 4916, 4917 and 4918.	

2 Pole Socket with Cover

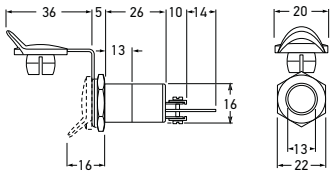




4915	8JB 001 946-023	SOCKET
Mounting	19mm diameter opening	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Socket with Cover - Insulated Earth

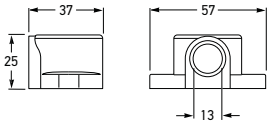




4916	8JB 004 777-013	SOCKET
Mounting	19mm diameter opening	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Surface Mount Socket

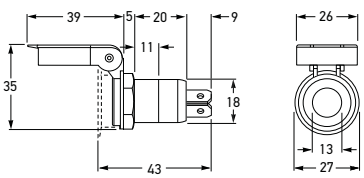




4917	8JB 004 123-005	SOCKET
Mounting	Surface Mount	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Socket with Metal Earth Tab and Cover

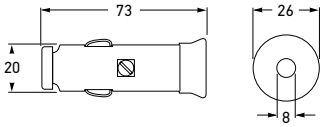




4918	8JB 905 388-001	SOCKET
Mounting	22mm diameter opening	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Power Plug

Suitable for standard cigarette sockets.

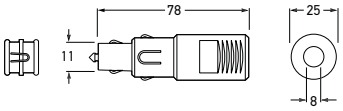




4950	8JA 905 395-001	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Socket to Suit	Part No. 4942 & 4943	

2 Pole Fused Power/DIN Plug

Combination Lighter/DIN 2 Pole Plug with in-built 8A ceramic type fuse suitable for both cigarette lighter and DIN ISO 4165 sockets (standard 2 pole sockets).

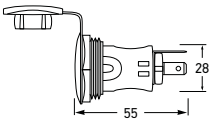




4952	8JA 007 589-003	PLUG
Maximum Load	8A @ 12V	
Sockets to Suit	Part No. 4913, 4915, 4916, 4917, 4918, 4939, 4942 and 4943.	

2 Pole Power Socket

2 Pole lighter size Power Socket with protective cover for connection of a variety of electrical accessories.

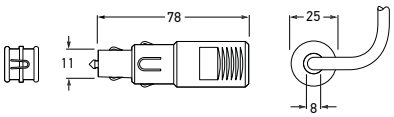




4943	8JB 008 023-001	SOCKET
Maximum Load	15A @ 12V	
Plugs to Suit	Part No. 4950, 4951, 4952 & 4939.	

2 Pole Power Socket - Twin DIN Output

Twin Power Socket featuring two DIN 1465 output sockets for connection of accessories. Plugs into standard vehicle cigarette lighter sockets. Primary lighter plug connection features a removable extension piece allowing the unit to also plug into DIN 2 pole sockets if required.



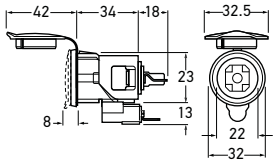


4939	8JB 008 032-001	SOCKET
Maximum Load	10A	

2 Pole Power Socket - Illuminated - 12V

2-pole cigarette-lighter-size Power Socket with protective cover and illuminated collar for connection of a variety of electrical accessories.



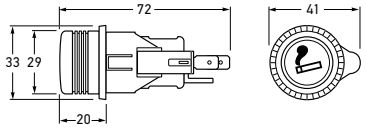


4942	8JB 008 023-011	SOCKET
Voltage	12V Globe included	
Maximum Load	15A @ 12V	
Globes to Suit	12V (W121.2) 24V (W241.2)	
Sockets to Suit	Part No. 4950, 4951, 4952 & 4939.	

Cigarette Lighter - Illuminated

Illuminated Cigarette Lighter with inbuilt globe. Ready to light in 10 seconds.

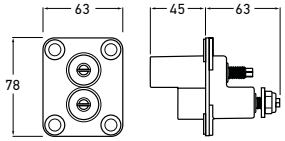




4937	8EZ 008 021-001	12 VOLTS
4938	8EZ 008 021-011	24 VOLTS
Voltage	12V 24V	
Globes to Suit	12V (W121.2) 24V (W241.2)	

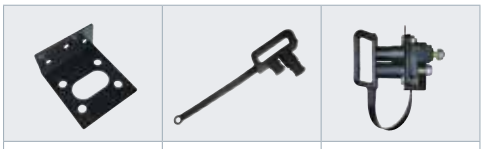
Jump Start Terminals

Heavy duty, high capacity Jump-Start Connectors for vehicles and equipment. Ideal for use where access to terminals is restricted or dangerous. Eliminates chance of cross polarity connections through the specially shaped plug. Reduces chance of sparking and possible ignition of flammable materials. Kit contains terminal, bracket and cap.



HM7546J	8JB 177 305-001	**JUMP START TERMINAL**
HM7546KIT	8HG 177 305-031	**JUMP START TERMINAL KIT**
HM7546P	8JA 177 305-101	**JUMP START PLUG**

Spare Parts	HM7546B HM7546C	Terminal Bracket 1 Terminal Cap 2



1 HM7546B	2 HM7546C	Terminal Kit



HM7546J

HM7546P

Weatherproof Connectors

Plastic construction with screw-type connection and rubber O-ring seal for waterproof connection. Strain relief for plug cable and a protective cover to protect socket when not in use.

2782	8JA 006 801-802	**2 POLE PLUG & SOCKET**
2783	8JA 006 803-801	**3 POLE PLUG & SOCKET**
2784	8JA 006 805-802	**4 POLE PLUG & SOCKET**
2785	8JA 006 807-802	**7 POLE PLUG & SOCKET**

Mounting	Suitable for surface mounting with mounting base, Part No. 2786
Maximum Load	2, 3 and 4 pole –16A at 12V (Suitable for up to 48V) 7 pole – 10A to 12V (Suitable for up to 48V)
Cable Dimensions	Cross section up to 2.5m² (5mm insulation)
Protection	IP67



2782 Pin	2783 Pin	2784 Pin	2785 Pin



Mounting Base

Surface Mounting Base to suit Part No. 2782-2785. Eliminates need to recess the socket.

2786	8XT 006 798-002	▬



DT Connectors

Industry standard environmentally sealed connectors rated at -55° to 125°C.

Rated to 13A current per terminal pin.

Connector housing packs (for plug and socket) are supplied with locking wedges, contact terminals available separately.



2-Pole DT Type Connector Housings



9.HM4940



9.HM4941

2-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4940	8KW 905 683-001 – PLUG	PACK OF 15
9.HM4941	8KW 905 684-001 – SOCKET	PACK OF 15
4960-P	8JA 959 736-811 - PLUG WITH TERMINALS	PACK OF 1

3-Pole DT Type Connector Housings



9.HM4942



9.HM4943

3-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4942	8KW 905 683-011 – PLUG	PACK OF 15
9.HM4943	8KW 905 684-011 – SOCKET	PACK OF 15

4-Pole DT Type Connector Housings



9.HM4944



9.HM4945

4-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4944	8KW 905 683-021 – PLUG	PACK OF 10
9.HM4945	8KW 905 684-021 – SOCKET	PACK OF 10

6-Pole DT Type Connector Housings

6-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4946	8KW 905 683-031 – PLUG	PACK OF 10
9.HM4947	8KW 905 684-031 – SOCKET	PACK OF 10
4963-P	8JA 959 736-801 – PLUG WITH TERMINALS	PACK OF 1



9.HM4946



9.HM4947

8-Pole DT Type Connector Housings

8-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4948	8KW 905 683-041 – PLUG	PACK OF 5
9.HM4949	8KW 905 684-041 – SOCKET	PACK OF 5



9.HM4948



9.HM4949

12-Pole DT Type Connector Housings

12-POLE DT TYPE CONNECTOR HOUSINGS		
9.HM4950	8KW 905 683-051 – PLUG	PACK OF 5
9.HM4951	8KW 905 684-051 – SOCKET	PACK OF 5



9.HM4950



9.HM4951

DT Type Connector Terminals and Sealing Plugs

DT TYPE CONNECTOR TERMINALS AND BLIND PLUGS		
9.HM4955	8KW 905 026-001 – FOR PLUG	PACK OF 100
9.HM4954	8KW 905 025-001 – FOR SOCKET	PACK OF 100
9.HM4956	8JA 905 048-001 – FOR ALL	PACK OF 50

Terminals suit AWG14 / 2.0mm^2 cable conductor sizes.



9.HM4955



9.HM4954



9.HM4956

Superseal Connectors

Superseal connector housings were developed to satisfy increasing requirements for safety and reliability in the field of electrical connections. The connectors can be connected to existing components and used with the equipment presently in use in the automotive industry (sensors, oil pressure sensors, water temperature monitoring circuits, etc.).

- → IP 67 (Protection against dust and temporary water immersion)
- → Robust and reliable contact. Max. current 14A.
- → Prefabricated secondary lock ensures that the terminal is plugged into the housing correctly and prevents slipping out of the connector.



For 'P' and 'S' versions only the bare connector is supplied. Select appropriate seals and terminals to suit.




1 POLE PLUG AND SOCKET		
HM4981-P	8KW 959 881-515 – (Pack of 4)	PLUG
HM4981-S	8KW 959 881-015 – (Pack of 4)	SOCKET




2 POLE PLUG AND SOCKET		
HM4982-P	8KW 959 881-525 – (Pack of 4)	PLUG
HM4982-S	8KW 959 881-005 – (Pack of 4)	SOCKET
Spare Part	9.4982.05	Rubber sealing boot – cable support




3 POLE PLUG AND SOCKET		
HM4983-P	8KW 959 881-535 – (Pack of 3)	PLUG
HM4983-S	8KW 959 881-035 – (Pack of 3)	SOCKET
Spare Part	9.4983.05	Rubber sealing boot – cable support




4 POLE PLUG AND SOCKET		
HM4984-P	8KW 959 881-545 – (Pack of 3)	PLUG
HM4984-S	8KW 959 881-045 – (Pack of 3)	SOCKET




5 POLE PLUG		
HM4985-P	8JA 959 881-555 – (Pack of 2)	PLUG
HM4985-S	8JA 959 881-055 – (Pack of 2)	SOCKET




6 POLE PLUG AND SOCKET		
HM4986-P	8KW 959 881-565 – (Pack of 2)	PLUG
HM4986-S	8KW 959 881-065 – (Pack of 2)	SOCKET

Superseal Connector Kit

Kit contains a variety of Superseal connectors.



HM4980	8JA 009 256-801	
Contents	Plug and Socket	5 x Superseal Plug and Sockets
	Plug Terminals	100 x 9.HM4980.02
	Socket Terminals	100 x 9.HM4980.04
	Conductor Seals	100 x 9.HM4980.06 ■ Yellow
	Cavity Plugs	100 x 9.HM4980.09 ■ Red

FEMALE TERMINALS FOR PLUG - PACK OF 50		
9.HM4980.01	8KW 959 882-811	
9.HM4980.02	8KW 959 882-511	
To Suit	9.HM4980.01	0.35 - 0.50mm² cable
	9.HM4980.02	0.50 - 1.50mm² cable



Plug Terminal

MALE TERMINALS FOR SOCKET - PACK OF 50		
9.HM4980.03	8KW 959 882-411	
9.HM4980.04	8KW 959 882-111	
To Suit	9.HM4980.03	0.35 - 0.50mm² cable
	9.HM4980.04	0.50 - 1.50mm² cable



Socket Terminal

SEALS FOR PLUG/SOCKET - PACK OF 50			
9.HM4980.05	9GD 959 883-201		■ GREEN SEAL
9.HM4980.06	9GD 959 883-001		■ YELLOW SEAL
9.HM4980.07	9GD 959 883-301		■ RED SEAL
9.HM4980.09	9GD 959 883-501		■ RED CAVITY PLUG (NO HOLE)
To Suit	9.HM4980.05	Cable insulation 1.45 - 1.7mm diameter	■ GREEN ①
	9.HM4980.06	Cable insulation 1.8 - 2.4mm diameter	■ YELLOW ②
	9.HM4980.07	Cable insulation 2.5 - 3.3mm diameter	■ RED ③
	9.HM4980.09	Red cavity plug (no hole)	



① 9.HM4980.05 ② 9.HM4980.06 ③ 9.HM4980.07

CRIMPING TOOL - SUPERSEAL TERMINALS	
HM8298	8PE 980 838-001

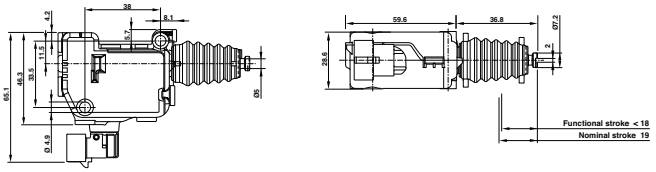
Crimping tool designed for use with Superseal connector terminals.



Electric Actuators

HELLA medium force Actuators are the actuator of choice in numerous OE vehicle applications. Actuator stroke length of 18mm, in different extension/retraction and spring return options. Separate models to suit 12V or 24V vehicle DC power supply. IP 5K4 ingress protection against dust and water, Superseal 2-pole electrical connection.





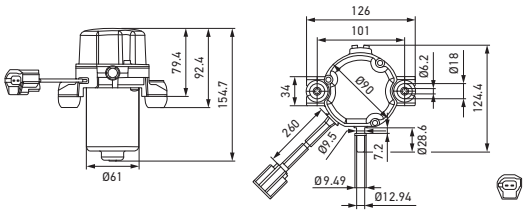
6NW 009 203-421 – Medium Force Actuator, 12V, No Spring Return	
6NW 009 203-471 – Medium Force Actuator, 12V, Spring Return	
6NW 009 203-501 – Medium Force Actuator, 12V, Spring Return	
Voltage	9-15V DC
Current Draw (Idling)	0.35 A
Current Draw (Maximum/Stalled)	10.5A (Sprung Return Models)
Actuating Force	100N (35°C Ambient Temperature)
Functional Stroke	18mm
IP Rating	IP 5K4
Operating Temperature	-40°C to 60°C
Weight	90g

6NW 009 203-441 – Medium Force Actuator, 24V, No Spring Return	
6NW 009 203-521 – Medium Force Actuator, 24V, Spring Return	
Voltage	18-30V DC
Current Draw (Idling)	0.2-0.6 A (idling)
Current Draw (Maximum/Stalled)	4.2A (Non-Spring Return Models),
Nominal Actuating Force	100N (35°C Ambient Temperature)
Functional Stroke	18mm
IP Rating	IP 5K4
Operating temperature	-40°C to 60°C
Weight	90g

UP5.0 Electric Vacuum Pump

Suitable for electric, hybrid and off-road vehicles that do not have a strong constant vacuum source to maintain operation of the brake booster in the vehicle and require a standalone pump to generate vacuum pressure to drive accessory systems or vacuum brake boosters.



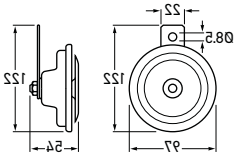


8TG 012 377-701	
Vacuum Reservoir Size	To suit 5L nominal system volume
Vacuum Connection	9.5mm Quick Release fuel/vacuum port
Nominal Voltage	12V
Average Current Draw	16A

Low Tone Disc Horn

Single bolt mount. 92mm diameter.



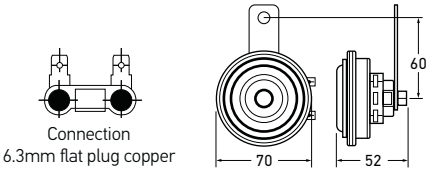


6001	3AL 002 952-011 – 400Hz	**12 VOLT DC**
6002	3BA 002 768-381 – 335Hz	**24 VOLT DC**
Power Consumption	72W 6A - 12V DC, 3A - 24V DC	
Frequency	6001 - 400Hz 6002 - 335Hz	
Sound Pressure Level	115db(A) @ 2m	

Super Tone S70 Horn

The HELLA Super Tone S70 disc horn provides outstanding size/performance ratio with a long-range sound in a compact space-saving body.



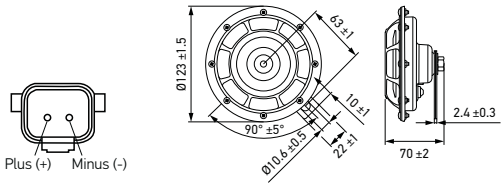


6029	3AL 922 196-011
Rated voltage	12V DC
Power Consumption	30 W
Frequency	420 Hz (high tone)
Sound Pressure Level	112dB(A) @ 2m
Approval	ECE R28 E9 6053
Bracket	M8 mounting screw

Super Tone B133E Long-Life Horn

The Super Tone B133E is the horn for heavy vehicle applications requiring a penetrating sound and outstanding environmental resistance. Rated to IP 67 for ingress protection against dust and equipped with a sealed DT-Type 2-pole electrical connection with a robust black epoxy finish.



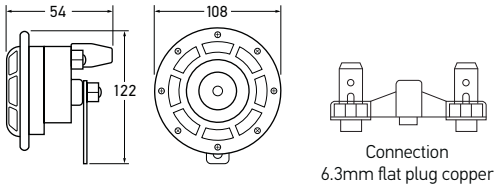


3AF 005 631-221	**Low tone unit**	**24 VOLT**
3AF 005 631-231	**High tone unit**	**24 VOLT**
Rated Voltage	24V DC	
Power Consumption (each)	70W	
Frequency	300 Hz (Low tone) / 450 Hz (High tone)	
Sound Pressure Level	118dB(A) @ 2m (Pair of horns)	
Approval	ECE R28 E9 001429	
IP Rating	IP 67	
Mounting	M10 mounting screw to bracket	

Sharp Tone M26S Horn Set

The HELLA Sharp Tone disc horn has a focused and high-penetrating power tone for drivers who want to be heard. Robust yellow protective grille and high corrosion protection make the Sharp Tone Horn ideal for tough off-road use. Unique design provides a dramatic look under your front grille.





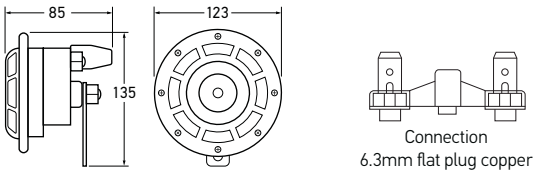
Connection
6.3mm flat plug copper

6028	3BB 922 000-731
Rated voltage	12V DC
Power Consumption	2 x 42 W
Frequency	415 Hz (high tone) / 350 Hz (low tone)
Sound Pressure Level	115dB(A) @ 2m
Approval	ECE R28 E4 165
Bracket	M8 mounting screw
Kit Includes	High-Tone Unit, Low-Tone Unit, Relay, Mounting Brackets, Step-by-Step Mounting Instructions

Super Tone B133 Horn Set

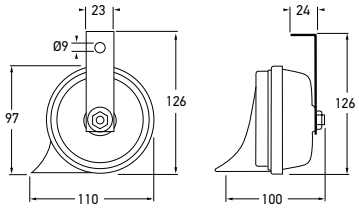
The HELLA Super Tone disc horn has a focused and high-penetrating power tone for drivers who want to be heard. Robust housing and high corrosion protection make the Super Tone Horn ideal for tough off-road use. Unique design provides a dramatic look under your front grille.





Connection
6.3mm flat plug copper

6036	3AG 003 399-801
Rated Voltage	12V DC
Power Consumption	2 x 66 W
Frequency	300 Hz (low tone) / 500 Hz (high tone)
Sound Pressure Level	118dB(A) @ 2m
Approval	ECE R28 E1 20033
Bracket	M8 mounting screw
Kit Includes	High-Tone Unit, Low-Tone Unit, Relay, Mounting Brackets, Step-by-Step Mounting Instructions



Twin Tone Scroll Horn - Set of 2

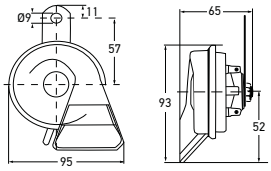
Includes 12V relay.





Packaging

6004	3FH 007 424-804	12 VOLT DC
Power Consumption	72W x 2	6A x 2
Voltage	12V DC	
Frequency	High Tone Low Tone	500Hz 400Hz
Sound Pressure Level	110dB(A) @ 2m	
Approval	ECE R28 (E1) 000209	



Twin Tone Scroll Horn - Set of 2

Galvanised metal housing and plastic horn.
Safe from corrosion.



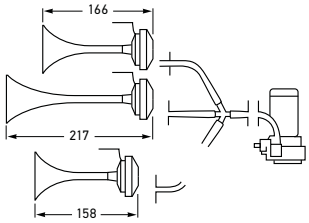


Packaging

6005	3FH 007 728-835	12 VOLT DC
Power Consumption	72W x 2	6A x 2
Voltage	12V DC	
Frequency	High Tone Low Tone	500Hz 400Hz
Sound Pressure Level	110dB(A) @ 2m	
Approval	ECE R28 (E1) 000233	

Air Horn Kit - Triple Trumpet

Polished stainless steel triple electric horns including support brackets.

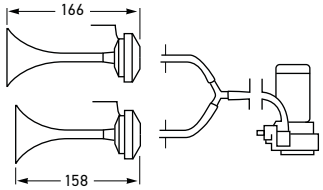




6007	3PD 003 001-623	12 VOLT DC
Mounting	Installation accessories included	
Current Draw	20A @ 12V DC	
Power Consumption	240W	
Sound Pressure Level	118dB(A) @ 2m	
Frequency	780 / 820 / 880Hz	
Operating Pressure	110kPA (16psi)	

Dual Trumpet Air Horn Kit

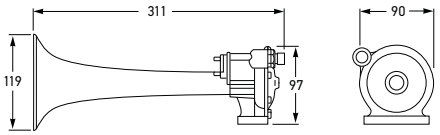
Installation accessories included.






Blister packaging

6014	3PB 003 001-602	12 VOLT DC
6027	3PB 003 001-612	24 VOLT DC
Mounting	Installation accessories included	
Current Draw	20A @ 12V DC 10A @ 24V DC	
Power Consumption	240W	
Sound Pressure Level	118dB(A) @ 2m	
Frequency	780/840Hz	
Operating Pressure	110Kpa (16psi)	

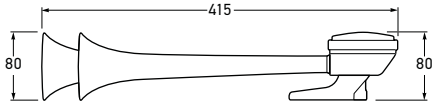


6025	3PA 004 206-041	12 VOLT DC
Power Consumption	36W @ 12V DC, 3A @ 12V DC	
Sound Pressure Level	118dB(A) @ 2m	
Frequency	400Hz	
Operating Pressure	620-860Pa (90 -125psi)	
Approval	ECE R28 (E1) 20027	
Air Tube: 10mm internal diameter.		

Compressed Air Operated Horn

Ideal for trucks and buses. Grey shock-proof and corrosion resistant trumpet. This horn is designed to operate directly from the truck's air supply via the existing horn-button or separate switch.





6032	3PB 005 411-002
Air Tube	6mm dia (4mm dia. internal)
Sound Pressure Level	118dB(A) @ 2m
Frequency	300 / 320Hz
Operating Pressure	4-8.5 bar
Approval	ECE R28 (E3) 42926
Accessories	6033 Pull-operated hand valve (1) 6035 Electro valve – 24V DC, 20W (activated via horn push-button) (2)

Highway Compressed Air Operated Twin Horn

Compressed-Air-Operated Twin Horn featuring rust-proof, chrome-plated housing with black base and two trumpets. Designed to operate off commercial vehicle air brake systems. The horn unit is supplied with brass fittings, mounting gear, connecting air tube, mounting gasket and detailed instructions.





(1) 6033



(2) 6035

Heavy Duty Reversing Alarm

Heavy Duty Reversing Alarm with integral AMP connection and fixed sound pressure levels between 90 and 107dB @ 1.2 metres. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.

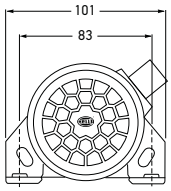




1 9.6008.05 | 2 9.6008.06



3 6041



Power Supply MULTI VOLT

6008	3SL 009 148-001	**90dB**
6009	3SL 009 148-011	**97dB**
6010	3SL 009 148-021	**107dB**
6011	3SL 009 148-061	**97dB**
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	12-24V DC (Part No. 6011 - 12-48V DC)	
Current Draw	Part No. 6008 0.1A - 90db Part No. 6009 0.2A - 97dB Part No. 6010 0.3A - 107dB Part No. 6011 0.2A - 97dB	
Frequency	60 signals per minute (± 20%).	
Sound Pressure Level	Part No. 6008 90dB(A) @ 1.2m Part No. 6009 97dB(A) @ 1.2m Part No. 6010 107dB(A) @ 1.2m Part No. 6011 97dB(A) @ 1.2m	
Temperature	Operating range -40°C to 85°C.	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Parts	9.6008.05 Rubber boot for AMP connection 1 9.6008.06 Wiring loom for AMP connection (2 metres) 2 6041 Activating Switch 3 (see page 395)	
Compliance	SAE J994	

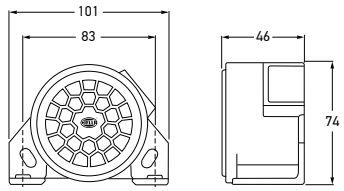
Multivolt™ Reversing Alarm and Signal Horn

Heavy Duty Reversing Alarm with integrated, dual-tone Signal Horn. Reverse polarity and transient voltage spike protection.



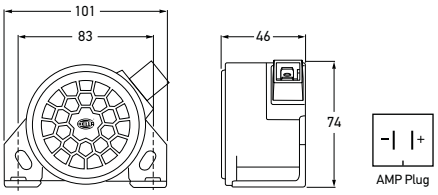


3 P6041



Power Supply MULTI VOLT

6012	3SL 009 148-071	**102dB**
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	12-24V DC	
Current Draw	0.3A	
Frequency	Back-up alarm 100 - 1500Hz High Tone 1000 - 1500Hz Low Tone 80Hz (+/- 37%)	
Sound Pressure Level	102dB(A) @ 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Part	6041 Activating Switch 1 (see page 395)	
Compliance	SAE J994 Type F	



6013	3SL 009 148-101	82-102dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	12-24V DC	
Current Draw	0.4A	
Frequency	60 signals per minute (± 20%).	
Sound Pressure Level	82 - 102dB(A) @ 1.2m	
Temperature	Operating range -40°C to 85°C.	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Parts	9.6008.05 Rubber boot for AMP connection 1 9.6008.06 Wiring loom for AMP connection (2 metres) 2 6041 Activating Switch 3 (see page 395)	
Compliance	SAE J994	

Heavy Duty Reversing Alarm

Heavy Duty Reversing Alarm with integral AMP connection. Automatically adjusts sound pressure level to changing noise environments. Solid state electronics, self-adjusting to the minimum of 5dB above surrounding noise levels effectively reducing irritation. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.

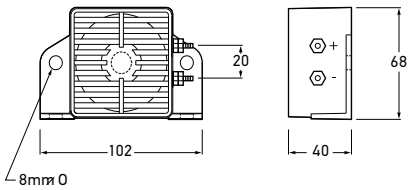




1 9.6008.05 | 2 9.6008.06



3 6041



6015	3SL 910 035-001	102dB
Mounting	Surface mount (2 x 8.3mm dia. mounting holes)	
Voltage	12-24V DC	
Current Draw	0.3A	
Frequency	80 signals per minute (typical)	
Sound Frequency	1200 Hz (typical)	
Sound Pressure Level	102dB(A) @ 1.2m	
Temperature	Operating range -40°C to +74°C.	
Protection	IP 55	
Accessory	6041 Activating Switch 1 (see page 395)	

Heavy Duty Reversing Alarm

Heavy Duty Reversing Alarm equipped with reliable solid-state electronics. The compact design allows for installation on forklifts and other similarly sized vehicles. Manufactured in accordance with SAE J1446 and encapsulated in weather-resistant nylon housing for maximum protection against dust, moisture and vibration. Reverse-polarity and transient-voltage-spike protected.



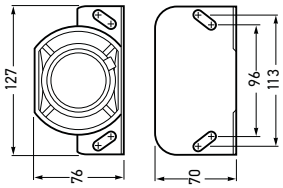


3 6041

Heavy Duty Multivolt™ Reversing Alarm - 107dB

Heavy Duty Reversing Alarm with fixed sound pressure level of 107dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reverse-polarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards





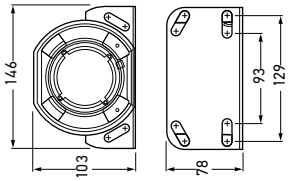
Power Supply MULTI VOLT

6016	3SL 996 139-102	107dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	Multivolt™ (12-36V DC)	
Current Draw	0.4A	
Frequency	1040-1560Hz	
Sound Pressure Level	107dB(A) @ 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Heavy Duty Multivolt™ Reversing Alarm - 112dB

Heavy Duty Reversing Alarm with fixed sound pressure level of 112dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reverse-polarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards.





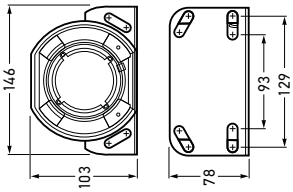
Power Supply MULTI VOLT

6017	3SL 996 139-112	112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	Multivolt™ (12-36V DC)	
Current Draw	0.4A	
Frequency	1000-1500Hz	
Sound Pressure Level	112dB(A) @ 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Heavy Duty Multivolt™ Reversing Alarm, 87 - 112dB Automatic

Heavy Duty Reversing Alarm automatically adjusts sound pressure level to changing noise environments. Solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels effectively reducing irritation and hearing impairment. Robust steel housing and mounting plate protected with powder-coat paint for maximum durability.



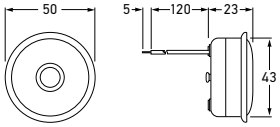


Power Supply MULTI VOLT

6018	3SL 996 139-002	87 - 112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	Multivolt™ (12-24V DC)	
Current Draw	0.4A	
Frequency	960-1440Hz	
Sound Pressure Level	87 to 112dB(A) @ 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Warning Buzzer

Piercing continuous sound. Suitable for a variety of applications e.g. headlamp, oil, handbrake, indicator, temperature, door close/open, brake fluid, etc.

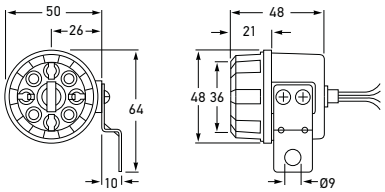




6021	3SB 905 413-001		**85dB**
6022	3SB 905 413-241		
Voltage	6021 6022	12V DC 24V DC	
Power Consumption	6W		
Current Draw	12V DC 24V DC	Less than 50mA Less than 25mA	
Sound Pressure Level	85dB(A) @ 1.2m		

Multivolt™ Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.





6023	3SL 950 751-011	**89dB**
Voltage	12-36V DC	
Current Draw	Less than 50mA	
Sound Pressure Level	89dB(A) @ 1.2m	

Activating Switch

Single direction. Off-on switch. Suits all reversing alarms and buzzers.



6041	6EH 905 414-001	**OFF-ON**
Mounting	Adjacent to the gear shift lever or linkage	
Protection	IP 55 (Protection against dust and water jets)	
Suits	6043 - 6049 and 6008 - 6015	

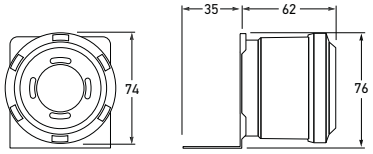
Evacuator Plus Heavy Duty Reversing Alarm

The Evacuator Plus Heavy Duty Reversing and Warning Alarm features a lightweight piezoelectric output circuit.

The reduced weight of just 129 grams makes the Evacuator Plus virtually immune to vibration damage. Unique nickel plated conductive terminal inserts, which provide power to the alarm, are hermetically sealed, giving superior water resistant performance.

The housing is constructed of high impact ABS plastic resin and is environmentally sealed against moisture, dust and corrosion. Evacuator Plus reversing and warning alarms are steam cleanable.





Power Supply MULTI VOLT

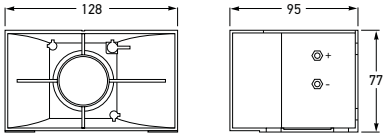
6043	3SL 905 415-001	**97dB**
6044	3SL 905 415-011	**112dB**
Mounting	Universal mounting comes complete with heavy-gauge plated steel mounting bracket. Can be installed on positive and negative ground vehicles.	
Voltage	6043/6044 - 12-48V DC	
Current Draw	Less than 0.10A	
Frequency	80 signals per minute +/- 20%	
Sound Pressure Level	Part No. 6043 97dB(A) @ 1.2m Part No. 6044 112dB(A) @ 1.2m	
Temperature	Operating range -40°C to 74°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reversing Alarm

Reactor heavy duty Reversing and Warning Alarm automatically adjusts to changing noise environments. State-of-the-art, solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels, thus reducing irritation, complaints and hearing impairment.

Reactor alarms feature integral universal mounting brackets and high impact ABS plastic resin housing and are totally environmentally sealed in epoxy to guard against moisture, dirt and vibration.





Power Supply MULTI VOLT

6047	3SL 905 415-021	**82-107dB AUTO**
Mounting	Universal mounting brackets	
Voltage	9 - 56V DC (12 - 48V DC Systems)	
Current draw	Less than 0.25A	
Frequency	80 signals per minute. 1.15kHz	
Sound Pressure Level	82 to 107dB(A) @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



6048	3SL 905 415-031	87-112dB AUTO
Mounting	Universal mounting brackets	
Voltage	9 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.50A	
Frequency	80 signals per minute. 1.15 kHz	
Sound Pressure Level	87 to 112dB(A) @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



6049	3SL 905 415-041	107/112dB MANUAL
Mounting	Universal mounting brackets	
Voltage	6 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.8A	
Frequency	80 signals per minute. 1.2 kHz	
Sound Pressure Level	107 or 112dB(A) @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	
Reactor alarms comply with SAE J994 requirements and OSHA regulations.		

Broadband Reversing Alarm

Reversing Alarm with multi-frequency broadband sound.



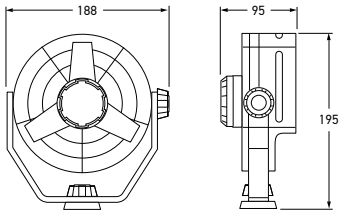
HMRA087B	3SL 910 644-001	87dB
6051	3SL 012 870-001	92dB
6052	3SL 012 871-001	97dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting	
Voltage	12-24V DC	
Current Draw	Max. 0.5A	
Frequency	White noise/broadband	
Sound Pressure Level	Part No. 6051 92dB(A) @ 1.2m Part No. 6052 97dB(A) @ 1.2m	
Temperature	Operating range -40 to 85°C	
Protection	IP 68 (Protection against dust and water immersion)	
Compliance	SAE J994 CE	

TURBO FAN

Turbo Fan

Turbo Fans provide high capacity at low power consumption. Features include impact resistant housing, low-noise operation and soft plastic impellers, shielded by sturdy protective grille for added safety. Fans can be turned in all directions, and locked in position. Airflow can be regulated by two-stage switch.





6100	8EV 003 361-001	**12 VOLT DC**
6100-W	8EV 003 361-021 – **White**	
6101	8EV 003 361-011	**24 VOLT DC**
Power Consumption	6.5W	
Cable Length	Pre-wired with 1.4m of cable	
Min. Service Life	5000 hours (tested under extreme conditions)	

BATTERY BOOSTER CABLES

Battery Booster Cables

Durable Battery Booster Lead Set featuring fully-insulated clamps with shunt and 4.0 metres of jumper lead. Copper cross-section 39.5mm² (490/0.32mm).



8852	8KA 910 236-011
Maximum Load	500A

Battery Booster Clamps

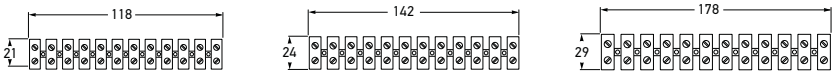
Fully-insulated Battery Booster Clamp with shunt featuring chrome-plated finish.



8853	8KX 910 236-021	■ **RED**
8854	8KX 910 236-001	■ **BLACK**
Maximum Load	500A	

Cable Connectors

Set of 12 Brass Terminals. Flexible plastic.

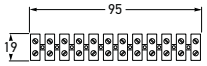


Part No. 8452 | Part No. 8453 | Part No. 8454

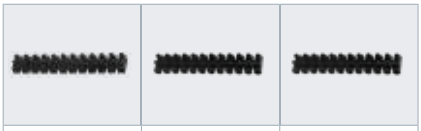
8455	8KV 002 137-001	SET OF 12
8452	8KV 002 139-001	
8453	8KV 002 140-001	
8454	8KV 002 141-001	

To Suit	8455	Cables up to 2.5mm (0.75mm²)
	8452	Cables up to 3mm (1.13mm²)
	8453	Cables up to 4mm (2.90mm²)
	8454	Cables up to 6mm (4.59mm²)





8455



8452	8453	8454

PC Insulated Double Crimp Terminals

Part Numbers	Type	Quantity Per Pack	Size	Cable
PC FULLY-INSULATED FEMALE BLADE TERMINALS				
8206 8KW 905 462-001	BLISTER PACK	10	6.3mm	2.5 to 3mm/0.75 to 1.13mm²
8506 8KW 905 497-001	BULK PACK	100		
8207 8KW 905 464-001	BLISTER PACK	10	6.3mm	4mm/1.84mm²
8507 8KW 905 498-011	BULK PACK	100		
8208 8KW 905 464-011	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm²
8508 8KW 905 498-021	BULK PACK	50		
PC INSULATED MALE BLADE TERMINALS				
8209 8KW 905 465-001	BLISTER PACK	10	6.3mm	2.5 to 3mm/0.75 to 1.13mm²
8509 8KW 905 498-031	BULK PACK	100		
8218 8KW 905 469-001	BLISTER PACK	10	6.3mm	4mm/1.84mm²
8518 8KW 905 500-001	BULK PACK	100		
8219 8KW 905 469-011	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm²
8519 8KW 905 500-011	BULK PACK	100		
PC INSULATED MALE BULLET TERMINALS				
8225 8KW 905 471-001	BLISTER PACK	10	4.0mm	2.5 to 3mm/0.75 to 1.13mm²
8525 8KW 905 504-001	BULK PACK	100		
8526 8KW 905 504-011	BULK PACK	100	5.0mm	4mm/1.84mm²
PC FULLY - INSULATED FEMALE BULLET TERMINALS				
8227 8KW 905 471-021	BLISTER PACK	10	4.0mm	2.5 to 3mm/0.75 to 1.13mm²
8527 8KW 905 504-021	BULK PACK	100		
8528 8KW 905 504-031	BULK PACK	100	5.0mm	4mm/1.84mm²





















Insulated Double Crimp Terminals/Connectors













Part Numbers	Type	Quantity Per Pack	Size	Cable
FEMALE BLADE TERMINALS				
8200 8KW 905 461-001	BLISTER PACK	18	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8500 8KW 905 496-001	BULK PACK	100		
8201 8KW 905 461-011	BLISTER PACK	14	6.3mm	4mm cable. 1.84mm² cable
8501 8KW 905 496-011	BULK PACK	100		
8202 8KW 905 461-021	BLISTER PACK	12	6.3mm	5 to 6mm cable 2.9 to 4.59mm² cable
8502 8KW 905 496-021	BULK PACK	50		
8203 8KW 905 461-031	BLISTER PACK	10	9.5mm	
8503 8KW 905 496-031	BULK PACK	50		
FULLY INSULATED FEMALE BLADE TERMINALS				
8204 8KW 905 461-041	BLISTER PACK	10	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8504 8KW 905 496-041	BULK PACK	100		
8205 8KW 905 461-051	BLISTER PACK	10	6.3mm	4mm cable. 1.84mm² cable
8505 8KW 905 496-051	BULK PACK	100		
2-WAY MALE AND FEMALE BLADE TERMINALS				
8210 8KW 905 466-001	BLISTER PACK	10	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8510 8KW 905 498-041	BULK PACK	100		
8211 8KW 905 466-011	BLISTER PACK	10	6.3mm	4mm cable. 1.84mm² cable
8511 8KW 905 498-051	BULK PACK	100		
8212 8KW 905 466-031	BLISTER PACK	19	6.3mm	
8512 8KW 905 498-061	BULK PACK	100		
MALE BLADE TERMINALS				
8213 8KW 905 467-001	BLISTER PACK	14	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8513 8KW 905 499-001	BULK PACK	100		
8214 8KW 905 467-011	BLISTER PACK	14	6.3mm	4mm cable. 1.84mm² cable
8514 8KW 905 499-011	BULK PACK	100		
8215 8KW 905 467-021	BLISTER PACK	11	6.3mm	5 to 6mm cable 2.9 to 4.59mm² cable
8515 8KW 905 499-021	BULK PACK	100		

Insulated Double Crimp Terminals/Connectors

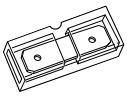
PUSH-ON FEMALE TERMINALS				
Part Numbers	**Type**	**Quantity Per Pack**	**Size**	**Cable**
MALE BULLET CONNECTORS				
8220 8KW 905 470-001	**BLISTER PACK**	14		2.5 to 3mm cable 0.75 to 1.13mm² cable
8520 8KW 905 501-001	**BULK PACK**	100		
8221 8KW 905 470-011	**BLISTER PACK**	14		4mm cable. 1.84mm² cable
8521 8KW 905 503-001	**BULK PACK**	100		
FEMALE BULLET CONNECTORS				
8222 8KW 905 470-021	**BLISTER PACK**	12		2.5 to 3mm cable 0.75 to 1.13mm² cable
8522 8KW 905 503-011	**BULK PACK**	100		
8223 8KW 905 470-031	**BLISTER PACK**	11		4mm cable. 1.84mm² cable
8523 8KW 905 503-021	**BULK PACK**	100		
DOUBLE MALE BLADE CONNECTORS				
8216 8KW 905 468-001	**BLISTER PACK**	9	6.3mm	N/A
8516 8KW 905 499-031	**BULK PACK**	50	6.3mm	N/A





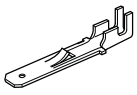


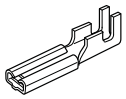




Non-Insulated Crimp Terminals

MALE BLADE TERMINALS				
Part Numbers	**Type**	**Quantity Per Pack**	**Size**	**Cable**
8570 8KW 905 512-001	**BULK PACK**	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8571 8KW 905 512-011	**BULK PACK**	100	6.3mm	4mm/1.84mm²
FEMALE BLADE TERMINALS				
8572 8KW 905 512-021	**BULK PACK**	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8573 8KW 905 512-031	**BULK PACK**	100	6.3mm	4mm/1.84mm²
EYE TERMINALS				
8574 8KW 905 512-041	**BULK PACK**	100	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8575 8KW 905 513-001	**BULK PACK**	100	5.0mm	4mm/1.84mm²
8576 8KW 905 513-011	**BULK PACK**	100	6.3mm	2.5 to 4mm cable. 0.75 to 1.84mm² cable
8577 8KW 905 513-021	**BULK PACK**	100	8.4mm	2.5 to 4mm cable. 0.75 to 1.84mm² cable















CABLE CONNECTORS

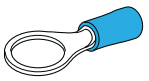
Part Numbers	Type	Quantity Per Pack	Size	Cable
8230 8KW 905 472-001	BLISTER PACK	15		2.5 to 3mm cable 0.75 to 1.13mm² cable
8530 8KW 905 508-001	BULK PACK	100		
8231 8KW 905 472-021	BLISTER PACK	14		4mm cable. 1.84mm² cable
8531 8KW 905 508-011	BULK PACK	100		
8232 8KW 905 472-011	BLISTER PACK	8		5 to 6mm cable 2.9 to 4.59mm² cable
8532 8KW 905 508-021	BULK PACK	100		

QUICK CONNECT CABLE CONNECTORS

8235 8KW 950 034-001	BLISTER PACK	6		
8535 8KW 950 034-002	BULK PACK	25		

With the use of pliers, connects splices and insulates 0.75 to 1.13mm² (2.5 to 3mm) cable.

















EYE TERMINALS

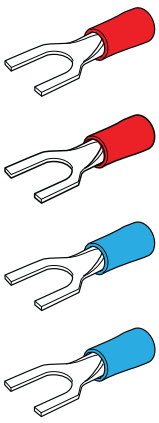
8236 8KW 905 474-001	BLISTER PACK	25	4.3mm	4mm cable. 1.84mm² cable
8536 8KW 905 509-001	BULK PACK	100		
8237 8KW 905 475-001	BLISTER PACK	12	9.5mm	4mm cable. 1.84mm² cable
8537 8KW 905 509-011	BULK PACK	100		
8240 8KW 905 476-001	BLISTER PACK	25	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8540 8KW 905 510-001	BULK PACK	100		
8241 8KW 905 476-061	BLISTER PACK	25	5mm	
8541 8KW 905 510-011	BULK PACK	100		
8242 8KW 905 476-011	BLISTER PACK	16	6.3mm	
8542 8KW 905 510-021	BULK PACK	100		
8243 8KW 905 476-021	BLISTER PACK	25	5mm	4mm cable. 1.84mm² cable
8543 8KW 905 510-031	BULK PACK	100		
8244 8KW 905 476-031	BLISTER PACK	20	6.3mm	
8544 8KW 905 510-041	BULK PACK	100		
8245 8KW 905 476-041	BLISTER PACK	14	8.4mm	
8545 8KW 905 510-051	BULK PACK	100		

EYE TERMINALS				
8246 8KW 905 476-051	BLISTER PACK	12	6.3mm	5 to 6mm cable 2.9 to 4.59mm² cable
8546 8KW 905 510-061	BULK PACK	50		
8247 8KW 905 476-101	BLISTER PACK	12	8.4mm	
8547 8KW 905 510-071	BULK PACK	50		
8248 8KW 905 476-071	BLISTER PACK	10	9.5mm	
8548 8KW 905 510-081	BULK PACK	50		
8249 8KW 905 476-081	BLISTER PACK	17	5mm	
8549 8KW 905 511-001	BULK PACK	50		



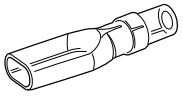
Insulated Crimp Terminals/Connectors

SPADE TERMINALS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
8260 8KW 905 476-091	BLISTER PACK	21	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8560 8KW 905 511-011	BULK PACK	100		
8261 8KW 905 477-001	BLISTER PACK	21	5.0mm	2.5 to 3mm cable 0.75 to 1.13mm² cable
8561 8KW 905 511-021	BULK PACK	100		
8262 8KW 905 477-011	BLISTER PACK	20	4.3mm	4mm cable. 1.84mm² cable
8562 8KW 905 511-031	BULK PACK	100		
8263 8KW 905 477-021	BLISTER PACK	21	5.0mm	4mm cable. 1.84mm² cable
8563 8KW 905 511-041	BULK PACK	100		

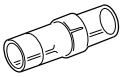


PVC Terminal Insulators

FEMALE TERMINAL INSULATORS				
Part Numbers	Type	Quantity Per Pack	Size	Suits
8578 8KX 905 513-031	BULK PACK	100	2.8mm	Part No. 8572
8579 8KX 905 515-001	BULK PACK	50	6.3mm	Part No. 8573



MALE/FEMALE TERMINAL INSULATORS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
8580 8KX 905 516-001	BULK PACK	100	6.3mm	Male bade and push-on Female (may be used to enclose crimp section of all types)



Handy Box® Service Kits

The Handy Box® Service Kit Complete Set contains all four Handy Box® Kits – Heat Shrink Kit, DT Connector Kit, Blade Fuse Kit and Crimp Terminal Kit. All parts in the kits are available as spares.



HM8291	9XX 910 121-101	HANDY BOX® SERVICE KIT COMPLETE SET
HM8296	9XX 011 959-001	HANDY BOX® CARRY CASE (EMPTY)

Handy Box® Heat Shrink Kit

The Handy Box® Heat Shrink Kit contains 576 Heat Shrink tubes of various diameters and length. All parts in the kit are available as spares.



HM8293	9MJ 178 458-821		HANDY BOX® HEAT SHRINK KIT
Replacement Parts	9.HM4810	Heat Shrink Tubing	3 Colours 1,2...5 9MJ
	9.HM4811	Heat Shrink Tubing	BK/TR 1,2...50 9MJ
	9.HM4812	Heat Shrink Tubing	3-COLOUR 1,6...50 9MJ
	9.HM4813	Heat Shrink Tubing	BK/TR 1,6...50 9MJ
	9.HM4814	Heat Shrink Tubing	3-COLOUR 2,4...50 9MJ
	9.HM4815	Heat Shrink Tubing	BK/TR 2,4...50 9MJ
	9.HM4816	Heat Shrink Tubing	3-COLOUR 3,2...50 9MJ
	9.HM4817	Heat Shrink Tubing	BK/TR 3,2...50 9MJ
	9.HM4818	Heat Shrink Tubing	5-COLOUR 4,8-100 9MJ
	9.HM4819	Heat Shrink Tubing	5-COLOUR 6,2-100 9MJ
	9.HM4820	Heat Shrink Tubing	BK/TR 9,5-100 9MJ
	9.HM4821	Heat Shrink Tubing	5-COLOUR 4,8-200 9MJ
	9.HM4822	Heat Shrink Tubing	BK 9,5/12,7-200 9MJ

Handy Box® DT Connector Kit

The Handy Box® DT Connector Kit contains 258 of the most popular DT Connectors including tools. All parts in the kit are available as spares.



HM8292	8KW 910 119-101		HANDY BOX® DT CONNECTOR KIT
Replacement Parts	9.HM4940G	2 Pin DT Plug Set	(Pack of 10)
	9.HM4941G	2 Pin DT Receptacle Set	(Pack of 10)
	9.HM4942G	3 Pin DT Plug Set	(Pack of 10)
	9.HM4943G	3 Pin DT Receptacle Set	(Pack of 10)
	9.HM4946G	6 Pin DT Plug Set	(Pack of 8)
	9.HM4947G	6 Pin DT Receptacle Set	(Pack of 8)

Handy Box® Blade Fuse Kit

The Handy Box® Blade Fuse Kit contains 475 of the most popular amperage and blade fuse sizes. All parts in the kit are available as spares.



HM8294	8JS 009 257-831	HANDY BOX® BLADE FUSE KIT
Contents	Flat Fuse Insert 2A 8JS	
	Flat Fuse Insert 3A 8JS	
	Flat Fuse Insert 4A 8JS	
	Flat Fuse Insert 5A 8JS	
	Flat Fuse Insert 7,5A 8JS	
	Flat Fuse Insert 10A 8JS	
	Flat Fuse Insert 15A 8JS	
	Flat Fuse Insert 20A 8JS	
	Flat Fuse Insert 25A 8JS	
	Flat Fuse Insert 30A 8JS	
	Flat Fuse Insert 2A 8JS	
	Fuse-Link 3A 8JS	
	Flat Fuse Insert 4A 8JS	
	Flat Fuse Insert 5A Fivefold 8JS	
	Flat Fuse Insert 7,5A 8JS	
	Flat Fuse Insert 10A 8JS	
	Fuse-Link 8JS	
	Flat Fuse Insert 20A 8JS	
	Flat Fuse Insert 25A 8JS	
	Fuse Insert 30A 8JS	
	Flat Fuse Insert 40A 8JS	

Handy Box® Crimp Terminal Kit

The Handy Box® Crimp Terminal Kit contains 401 of the most popular terminals and connectors and a crimp terminals tool. All parts in the kit are available as spares.



HM8295	8KW 009 254-841	HANDY BOX® CRIMP TERMINAL KIT
Contents	Flat Fuse Insert 2A 8JS	
	Cable Shoe 4-1 8KW	
	Cable Shoe 5-1 8KW	
	Flat Receptacle Female 8KW	
	Flat Terminal 6,3 8KW	
	Round Plug 4 8KW	
	Cable Shoe 5-2,5 8KW	
	Flat Receptacle Female 6,3 8KW	
	Cable Shoe 4-2,5 8KW	
	Cable Shoe 5-2,5 8KW	
	Cable Lug Shoe 6-2,5 574-99 8KW	
	Joint Connector 8KW	
	Flat Terminal 6,3 8KW	
	Flat Terminal 6,3 8KW	
	Circular Socket D4 8KW	
	Flat Terminal (Female) Receptacle 8KW	
	Flat Terminal (Female) Receptacle 8KW	
	Cable Shoe 8KW	
	Cable Shoe 8KW	
	Clutch 8KW	
	Connector, Insulating Splice 8KV	
	Crimping Tool 8PE	

Insulated Terminal Assortment

Pack of 16 and 29 popular HELLA connectors/terminals.



Part No 8280



Part No 8281

8280	8KW 905 485-001	PACK OF 16
8281	8KW 905 486-001	PACK OF 29

Garage/Auto Electrical Assortment Kit - 188 Piece

Assortment containing 12 complete packs ofHELLA connectors/terminals specifically designed to meet the requirements of the automotive industry.



8282	8KW 905 487-001

Contents — A quantity of 12 complete packs.

Part Numbers	Description	Quantity
8200	Female blade terminal	18
8201	Female blade terminal	14
8202	Female blade terminal	12
8203	Female blade terminal	10
8210	2-way male and female blade terminal	10
8211	2-way male and female blade terminal	10
8230	Cable connector	15
8231	Cable connector	14
8232	Cable connector	8
8241	Eye terminal	25
8244	Eye terminal	20
8247	Eye terminal	12

Insulated Terminal and Connector Kit - 1025 Piece

This Professional Assortment containing 1025 HELLA Connectors/Terminals and a Ratchet Crimping Tool Part No. 8273, is designed to meet the requirements of the automotive industry. Includes a quantity of 20 complete packs.



8284	8KW 905 489-001

Contents — 20 types of HELLA connectors/terminals.

Part Numbers	Description	Quantity
8200	Female blade terminal	100
8201	Female blade terminal	100
8202	Female blade terminal	50
8204	Fully Insulated female blade terminal	50
8205	Female blade terminal	50
8213	Male blade terminal	50
8214	Male blade terminal	50
8220	Male bullet connector	50
8221	Male bullet connector	50
8222	Male bullet connector	50
8223	Female bullet connector	50
8230	Female bullet connector	50
8231	Cable connector	50
8232	Cable connector	50
8241	Eye terminal	50
8243	Eye terminal	50
8244	Eye terminal	50
8246	Eye terminal	25
8247	Eye terminal	25
8248	Eye terminal	25

8PE 014 032-001 - 'MCP 2.8' Style Crimps
8PE 014 032-011 - 'VKS-Plus' Style Terminals

These OE Quality Crimping Tools are recommended for proper crimping.
Crimping heads may be exchanged with heads for different crimp styles.



8272	8PE 905 478-021 – **Insulated Terminals**

Spring return hand grips. Cuts and strips insulation from cable measuring 2.5-6mm in diameter (0.75-6mm²). Crimps all popular insulated and non-insulated terminals. Cuts bolts with metric threads M2.6, M3, M3.5, M4, M5.



8273	8PE 905 479-001 – **Insulated Terminals**

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for insulated terminals.



8274	8PE 905 479-021 – **Non-Insulated Terminals**

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for open barrel non-insulated terminals.



HM8275	8PE 980 837-001 – **DT Terminals**

Specially designed crimping tool with multiple jaws for an even crimp of DT terminals.
See page 408 for DT connectors.



HM8277	8PE 910 118-011 – **DT Contacts**

DT Contact Crimping Tool – 0.5 - 1.0mm



HM8298	8PE 980 838-001 – **Superseal Terminals**

Crimping tool designed for use with Superseal connector terminals.
See page 344 for superseal connectors.



8283	8KW 905 488-001 – **Handyman Crimp Kit**

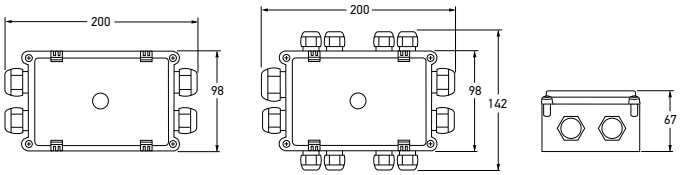
Especially designed for the handyman and hobbyist, this kit contains a useful crimping tool that cuts cable, strips cable insulation and crimps all popular insulated terminals. Comes complete with an assortment of 29 popular HELLA connectors and terminals.



Cable Junction Box

Compact cable Junction Box with the option of 4 or 12 inlet/outlets, and outer cable size from Ø10mm to Ø17mm. Complete with connecting cartridge allowing 14 separate groups of connections (6 x 8-way and 8 x 4-way) all using 6.3mm flat blade connectors. The heavy duty nylon housing will withstand common lubricants found underneath truck and trailers, and is safe to clean with high pressure washing equipment.





Part No. 2770 Part No. 2771

2770	8KV 177 785-011	**4 OUTLETS**
2771	8KV 177 785-001	**12 OUTLETS**
Fittings	2770 2771	4 x Ø13mm 1 × Ø17mm + 3 × Ø13mm + 8 × Ø10mm
Protection	IP 69K (Protection against dust and high pressure/steam jet cleaning)	
Plug Cartridge	14 separate connection groups.	

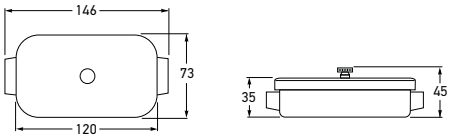


Connecting cartridge

Cable Junction Box

8 screw connections.





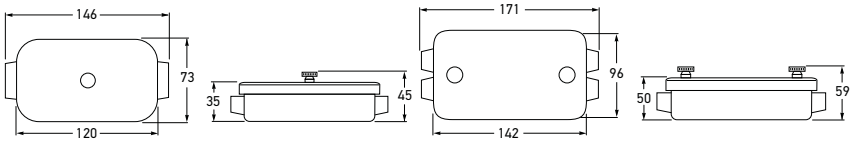
2757	8KV 002 143-032
Cable	Suitable for medium cable up to 6mm² cross-sectional area.

Cable Junction Box

8 pole, 8 double flat plug connection.



2759

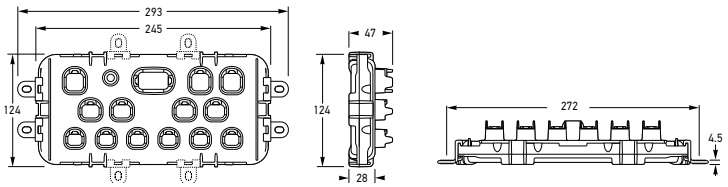


Part No. 2758 Part No. 2759

2758	8KV 002 145-002	
2759	8KV 004 259-031	
To Suit	2758 2759	Suitable for medium cable up to 6mm² cross-sectional area. Suitable for heavy cable up to 10mm² cross-sectional area.

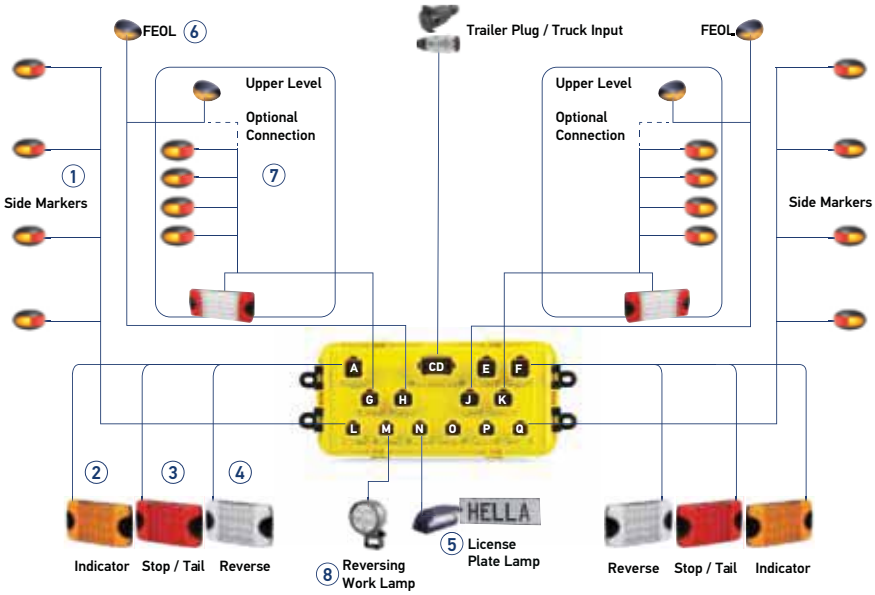


2758



8JE 233 496-001 – LED Lamp Distribution Box	
Rated Voltage	12/24V DC Powered Vehicles
Operating Temperature	-40° to 50° Celsius
Lamp Connections (DT Type Sockets)	Input: 12-Pole Output: 3x 6-Pole (2x Stop/Tail/Indicator/Reverse, 1x Aux/Reverse) 4x 4-Pole (2x Front Outline, 2x Stop/Tail/Indicator) 6x 2-Pole (2x Side Marker, 1x each of Reverse, License Plate, Rear Fog and Aux.)
Max Power / Current	1.3 A @ 50°C Ambient Temp. (Per output pin) 13A Total for entire unit
Protection	IP 6K7 and IP 6K9K
Overload Protection Type	Internal thermal Contact, self resetting

Example of Wiring layout using LED Lamp Distribution Box



LED Lamp Distribution Box

HELLA's revolutionary LED Lamp Distribution Box is the quick connect, easy trouble shooting solution for fitting LED lamps to heavy trailers and custom vehicles. The LED Lamp Distribution Box is designed with integrated DT type connector sockets that provide easy and reliable lamp connection. Internal electronics protect and isolate individual circuits and reduce lamp outage to ensure a long life and reliable lamp operation. A completely sealed housing and durable materials provide protection against water, dust and high pressure/steam jet cleaning.





LED Lamp Distribution box, connectors populated

Self-Amalgamating Loom Tape

Polyethylene self-amalgamating loom tape ideal for waterproof sealing of electrical connections, temporary repair and sealing of plumbing joints. Also suitable for emergency repair of radiators, engine hoses and auto electrics. Easy to unwind and resistant to water, ozone, UV and a wide range of chemicals including alkalis, hydraulic fluids and vegetable oils.



HMAT85	9MJ 910 147-001 – (Pack of 4)
Voltage	34kV/mm
Elongation	600%
Temperature Range	-35°C to 130°C
Size	Tape Thickness 0.5mm – tensile strength at break 12N/cm.

PVC Electrical Insulation Tape - Black

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.



8320	9MJ 905 490-001	10m	■ BLACK	18MM X 10M
8322	9MJ 905 490-021	20m	■ BLACK	18MM X 20M
Voltage	8.0kV (1 minute proof test 6.0kV)			
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength at break 26N/cm			

PVC Electrical Insulation Tape - Red

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.



8321	9MJ 905 490-011	10m	■ RED	18MM X 10M
8323	9MJ 905 490-031	20m	■ RED	18MM X 20M
Voltage	8.0kV (1 minute proof test 6.0kV)			
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength at break 26N/cm			

Nylon Cable Ties

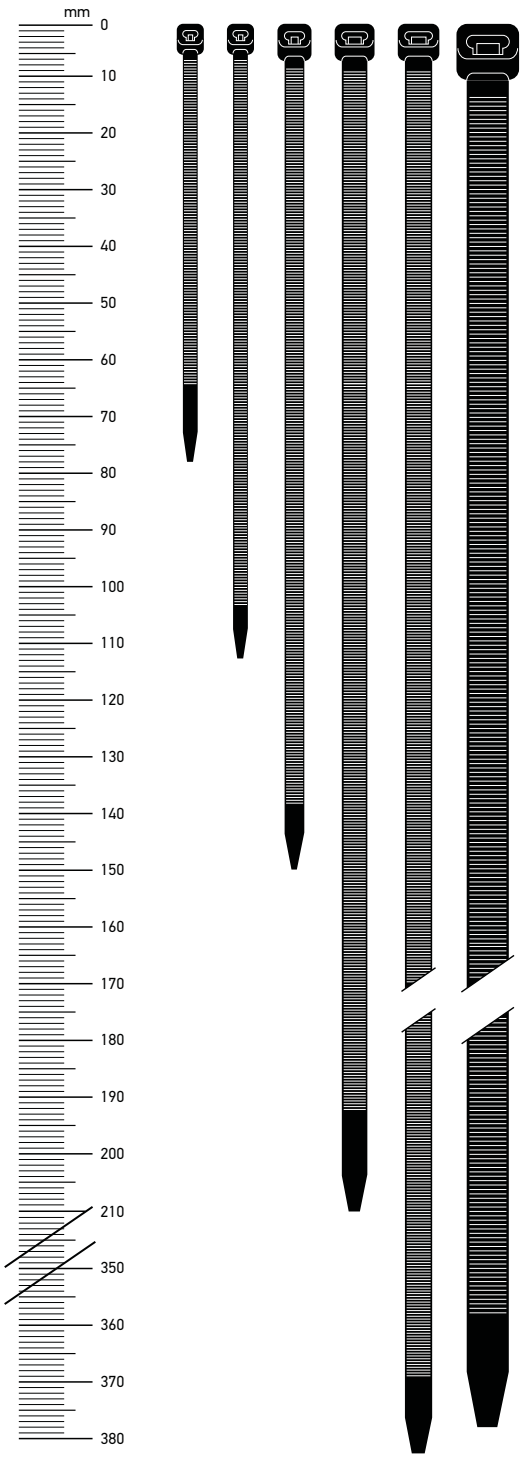
100 percent 6/6 nylon cable ties. Very flexible locking latch. Bell-mouthed head allows easier threading than previous ties. Strongest possible locking power without damaging the serrations of the tie. Quick fastening and simple locking mechanism. Black ties are UV resistant.

WHITE CABLE TIES

Quantity 100 Per Pack	Length	Width
8341 8HL 905 491-101	78mm	2.5mm
8342 8HL 905 491-121	103mm	2.5mm
8343 8HL 905 491-141	143mm	3.2mm
8344 8HL 905 491-161	191mm	4.5mm
8345 8HL 905 491-181	368mm	4.8mm
8346 8HL 905 491-202	378mm	7.6mm

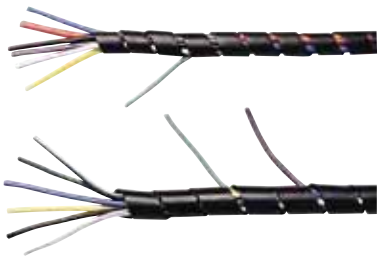
BLACK UV RESISTANT CABLE TIES

Quantity 10 Per Pack	Quantity 100 Per Pack	Length	Width
-	**8341UV** 8HL 905 491-111	78mm	2.5mm
-	**8342UV** 8HL 905 491-131	103mm	2.5mm
8333UV 8HL 905 491-031	**8343UV** 8HL 905 491-151	143mm	3.2mm
8334UV 8HL 905 491-051	**8344UV** 8HL 905 491-171	191mm	4.5mm
8335UV 8HL 905 491-071	**8345UV** 8HL 905 491-191	368mm	4.8mm
8336UV 8HL 905 491-091	**8346UV** 8HL 905 491-211	378mm	7.6mm



Cable Wraps

Manufactured from moisture-resistant black polyethylene. Stable to a temperature of 100°C.



CONVOLUTED SPLIT TUBING				
Part Number	Internal Diameter	Contents	Length	Wrapping Range
8347 8JR 950 888-001	6mm	1	10m	6 to 18mm
8348 8JR 950 888-011	12mm	1		12 to 35mm

Manufactured from black polypropylene. Temperature Range: -20°C to +60°C.



CONVOLUTED SPLIT TUBING			
Part Number	Internal Diameter	Contents	Length
8351 8JR 910 196-071	7mm	1	10 metres
8356 8JR 910 196-081			30 metres
8349 8JR 910 196-001	10mm	1	10 metres
8357 8JR 910 196-011			30 metres
8350 8JR 910 196-021	13mm	1	10 metres
8358 8JR 910 196-031			30 metres
8352 8JR 910 196-041	16mm	1	10 metres
8353 8JR 910 196-051	20mm	1	10 metres
8355 8JR 910 196-061	25mm	1	3 metres

Heat Shrink Tubing Assortment

8379	9MJ 905 495-161 – Heat Shrink Tubing	
Content	**Diameter**	**Colour**
	2 x 3.2mm	■ BLACK
	2 x 4.8mm	
	2 x 6.4mm	
	2 x 3.2mm	■ RED
	2 x 4.8mm	
	2 x 6.4mm	

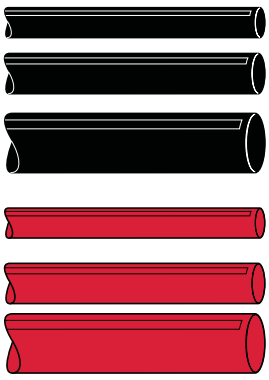
Assortment of 12 x 200mm lengths of Heat Shrink Tubing ranging from 3.2mm to 6.4mm diameter.



Heat Shrink Tubing Assortment

8380	9MJ 905 495-171 – Heat Shrink Tubing	
Content	**Diameter**	**Colour**
	2 x 9.5mm	■ BLACK
	2 x 12.7mm	
	2 x 19.0mm	
	2 x 9.5mm	■ RED
	2 x 12.7mm	
	2 x 19.0mm	

Assortment of 12 x 200mm lengths of Heat Shrink Tubing ranging from 9.5mm to 19mm diameter.



Heat Shrink Tubing Assortment



HEAT SHRINK TUBING - ASSORTMENT					
Part Number	Type	Pre - Shrunk Diameter	Shrunk Diameter	Length	Colour
8361 9MJ 910 188-081	BLISTER PACK	2.4mm	1.2mm	1.2m	■
8371 9MJ 910 188-091					■
8362 9MJ 910 188-101	BLISTER PACK	3.2mm	1.6mm	1.2m	■
8372 9MJ 910 188-111					■
8363 9MJ 910 188-121	BLISTER PACK	4.8mm	2.4mm	1.2m	■
8373 9MJ 910 188-151					■
8364 9MJ 910 188-141	BLISTER PACK	6.4mm	3.2mm	1.2m	■
8374 9MJ 910 188-151					■
8365 9MJ 910 188-001	BLISTER PACK	9.5mm	4.8mm	1.2m	■
8375 9MJ 910 188-011					■
8366 9MJ 910 188-021	BLISTER PACK	12.7mm	6.4mm	1.2m	■
8376 9MJ 910 188-031					■
8367 9MJ 910 188-041	BLISTER PACK	19 mm	9.5mm	1.2m	■
8377 9MJ 910 188-051					■
8368 9MJ 910 188-061	BLISTER PACK	25.4mm	12.7mm	1.2m	■
8378 9MJ 910 188-071					■

Cable Stripper/Cutter



8275	8PE 905 480-001

Self-adjusting Cable End Stripper and Cutter. Suitable for cables ranging from 1mm² to 6mm² cross-sectional area.

Cable Cutter



8277	8PE 905 482-001

High-quality Cable Cutter suitable for copper cable up to 70mm² cross-sectional area. Cleanly cuts finely stranded battery and welding cables used in automotive applications. Length of 195mm ensures adequate leverage for ease of cutting.

Cable Tie Gun



8278	8PE 905 483-001

Nylon Tie Tension and Cutting Tool. Suitable for cable ties ranging from 2.2mm to 4.8mm width.

Cable Tie Gun - Automatic Cut



8279	8PE 910 002-031

Durable Nylon Tie Gun with automatic cut-off. Suitable for cable ties ranging from 2.2mm to 4.8mm width.

Cable Tie Gun Heavy Duty, Automatic Cut



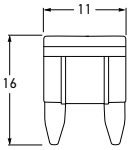
8299	8PE 910 002-021

Robust Nylon Cable Tie Gun featuring automatic cut-off and adjustable tension for maximum durability and extended service life. Suitable for heavy-duty cable ties ranging from 3.6mm to 9mm width.

Mini Blade Fuses (ATN)
- Pack of 10

10 popular Blade Fuses – ideal for the glove box.





8771MINI	8JS 905 527-011	BLISTER PACK	TAN	5A
8772MINI	8JS 905 528-011	BLISTER PACK	BROWN	7.5A
8773MINI	8JS 905 529-011	BLISTER PACK	RED	10A
8774MINI	8JS 905 531-011	BLISTER PACK	BLUE	15A
8775MINI	8JS 905 533-011	BLISTER PACK	YELLOW	20A
8776MINI	8JS 905 534-011	BLISTER PACK	WHITE	25A
8777MINI	8JS 905 535-011	BLISTER PACK	GREEN	30A



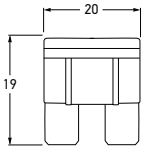
8772MINI | 8773MINI | 8774MINI



8775MINI | 8776MINI | 8777MINI

Standard Blade Fuses (ATS)
- Pack of 10





8771	8JS 905 527-001	BLISTER PACK	TAN	5A
8772	8JS 905 528-001	BLISTER PACK	BROWN	7.5A
8773	8JS 905 529-001	BLISTER PACK	RED	10A
8774	8JS 905 531-001	BLISTER PACK	BLUE	15A
8775	8JS 905 533-001	BLISTER PACK	YELLOW	20A
8776	8JS 905 534-001	BLISTER PACK	WHITE	25A
8777	8JS 905 535-001	BLISTER PACK	GREEN	30A



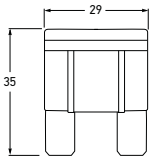
8772 | 8773 | 8774



8775 | 8776 | 8777

Maxi Blade Fuses (ATM)
- Single Pack





8790	8JS 905 540-001	BLISTER PACK	YELLOW	20A
8791	8JS 905 540-011	BLISTER PACK	GREEN	30A
8792	8JS 905 540-021	BLISTER PACK	ORANGE	40A
8793	8JS 905 540-031	BLISTER PACK	RED	50A
8794	8JS 905 540-041	BLISTER PACK	BLUE	60A
8796	8JS 905 540-061	BLISTER PACK	BROWN	70A
8795	8JS 905 540-051	BLISTER PACK	WHITE	80A



8791 | 8792 | 8793



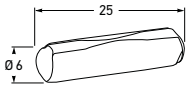
8794 | 8796 | 8795

LED Fuse Puller/Tester



9.HM4993	8PD 910 299-001 – Tool for testing and removal of blade fuses.

FUSES AND CIRCUIT BREAKERS

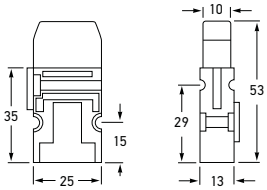


Ceramic Fuses - 6AC Pack of 10



8750	8JS 025 889-001	BLISTER PACK	WHITE	8 AMP
8753	8JS 089 015-001	BLISTER PACK	BLUE	16 AMP
8751	8JS 091 603-001	BLISTER PACK	RED	25 AMP

FUSE HOLDERS



Single Blade Fuse Holder

30 Amps maximum. May be interlocked face to face or end to end. Complete with transparent dust cover lid and snap-in terminals.



8718	8JD 005 235-001
Cable	Suitable for cable up to 2.90mm² cross sectional area

Single In-line Blade Fuse Holder

20 Amps maximum. Complete with 15A blade fuse. Quick connect type, manufactured by 3M - U.S.A.



8719	8JD 905 523-001
Cable	Suitable for cable up to 1.84mm² cross sectional area

Garage & Auto Electrical Fuse Assortment Kit

100 of the most popular blade and ceramic fuses.



8778	8JS 905 536-001		
		Colour	Quantities
Content	8771	Tan Blade 5A	10
	8772	Brown Blade 7.5A	10
	8773	Red Blade 10A	10
	8774	Blue Blade 15A	10
	8775	Yellow Blade 20A	10
	8776	White Blade 25A	10
	8777	Green Blade 30A	10
	8750	White Ceramic 8A	10
	8751	Red Ceramic 25A	10
	8753	Blue Ceramic 16A	10

Motorist Mini - Fuse Assortment (ATS) - Pack of 10

10 popular mini blade fuses



8779MINI	8JS 905 537-011		
		Colour	Quantities
Content	8771MINI	Tan Blade 5A	1
	8772MINI	Brown Blade 7.5A	1
	8773MINI	Red Blade 10A	2
	8774MINI	Blue Blade 15A	2
	8775MINI	Yellow Blade 20A	2
	8776MINI	White Blade 25A	1
	8777MINI	Green Blade 30A	1

Motorist Fuse Assortment (ATS) - Pack of 10

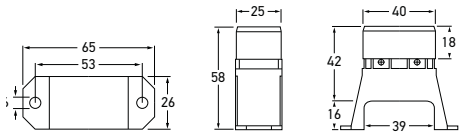
10 popular Blade Fuses – ideal for the glove box.



8779	8JS 905 537-001		
		Colour	Quantities
Content	8772	Brown Blade 7.5A	1
	8773	Red Blade 10A	2
	8774	Blue Blade 15A	2
	8775	Yellow Blade 20A	2
	8776	White Blade 25A	2
	8777	Green Blade 30A	1

Blade Fuse Box - 4 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.

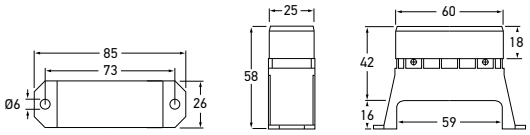




8720	8JD 905 524-001
Number of Fuses	4
Fuse Type	2 x 10A 2 x 15A

Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.

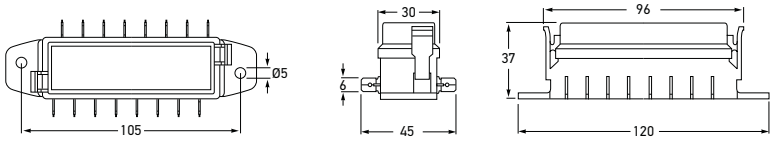




8721	8JD 905 524-011
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

Blade Fuse Box - 8 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.



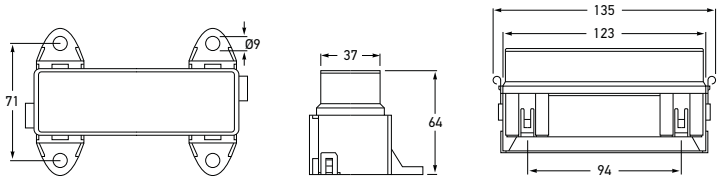


8722	8JD 905 524-021
Number of Fuses	8
Fuse Type	4 x 10A 4 x 15A

Blade Fuse Box - 16 Fuses

16-way Fuse Box featuring black plastic housing with secondary locks, transparent cover and sealing gasket. Supplied with mounting brackets (male and female).



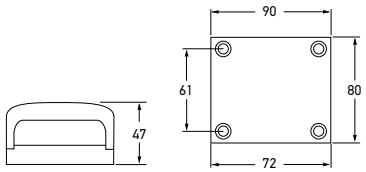


8724	8JD 905 524-031
Number of Fuses	16
Fuse Type	6 x 10A 6 x 15A 2 x 20A 2 X 25A

Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid and 6.3mm male blade terminals. 6mm diameter stud input. Complete with 2 spare fuse holders and label set.

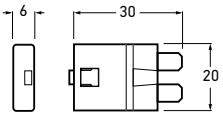




8725	8JD 005 993-093
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

Manual - Reset Circuit Breakers 28 Volts DC

Miniaturised manual-reset, single-pole thermal Circuit Breaker for automotive fuse block installation as a replacement for standard blade fuses. Designed to suit extra-low-voltage wiring systems on all types of vehicles and marine craft.

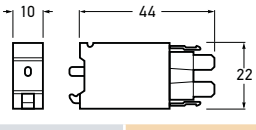




8730	8JS 910 017-051	10 - 28V DC	6A
8731	8JS 910 017-061	10 - 28V DC	8A
8732	8JS 910 017-011	10 - 28V DC	10A
8733	8JS 910 017-021	10 - 28V DC	15A
8734	8JS 910 017-031	10 - 28V DC	20A
8735	8JS 910 017-041	10 - 28V DC	25A
Voltage	Max. 28V DC (Min 10V DC)		
Mounting	Blade Fuse replacement		

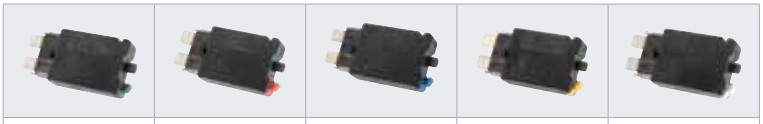
Circuit Breakers - Standard Blade Fuse Replacement

Compact single pole, heavy duty thermal circuit breakers with push-to-reset mechanism and separate (colour coded) manual release for extra low voltage wiring systems on all types of vehicles and marine craft. Fitted with blade terminals for plug-in mounting and retaining clips and ribs for increased pull-out force and vibration resistance. Ideal replacement for blade fuses in heavy duty applications.





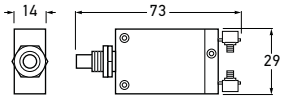
8736	8JS 981 761-001	PURPLE	3A
8737	8JS 981 762-001	GREEN	6A
8738	8JS 981 757-001	RED	10A
8739	8JS 981 758-001	BLUE	15A
8740	8JS 981 759-001	YELLOW	20A
8741	8JS 981 760-001	WHITE	25A
Voltage	Max. 28V DC (Min. 10V DC)		



8737	8738	8739	8740	8741

Manual - Reset Circuit Breakers 28 Volts DC - Screw Connection

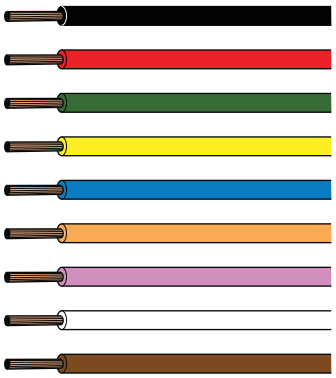
Manual-reset, single-pole thermal Circuit Breaker with push-to-reset mechanism and screw terminals for extra-low-voltage systems.





8742	8JS 910 017-071	10 - 28V DC	10A
8743	8JS 910 017-081	10 - 28V DC	20A
8744	8JS 910 017-091	10 - 28V DC	25A
8745	8JS 910 017-101	10 - 28V DC	30A
8746	8JS 910 017-111	10 - 28V DC	35A
Voltage	Max. 28V DC (Min 10V DC)		
Mounting	Fitted with moulded thread neck (10mm dia.) for panel mounting		

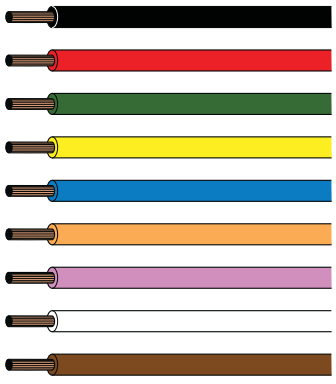
Single Core Automotive Cable - 3mm



8800	8KL 905 541-001	■ BLACK
8801	8KL 905 541-011	■ RED
8802	8KL 905 541-021	■ GREEN
8803	8KL 905 541-031	■ YELLOW
8804	8KL 905 541-041	■ BLUE
8805	8KL 905 541-051	■ ORANGE
8806	8KL 905 541-061	■ VIOLET
8807	8KL 905 541-071	■ WHITE
8808	8KL 905 541-081	■ BROWN

Cable Diameter	3mm
Strand No./Dia.	14/0.32mm
Conductor Cross Section Area	1.13mm²
Length	30m

Single Core Automotive Cable - 4mm



8810	8KL 905 541-091	■ BLACK
8811	8KL 905 541-101	■ RED
8812	8KL 905 541-111	■ GREEN
8813	8KL 905 541-121	■ YELLOW
8814	8KL 905 541-131	■ BLUE
8815	8KL 905 541-141	■ ORANGE
8816	8KL 905 541-151	■ VIOLET
8817	8KL 905 541-161	■ WHITE
8818	8KL 905 541-171	■ BROWN

Cable Diameter	4mm
Strand No./Dia.	23/0.32mm
Conductor Cross Section Area	1.84mm²
Length	30m

Single Core Automotive Cable - 5mm

8820	8KL 905 541-181	■ BLACK
8821	8KL 905 541-191	■ RED
8822	8KL 905 541-201	■ GREEN
8823	8KL 905 541-211	■ YELLOW
Cable Diameter	5mm	
Strand No./Dia.	36/0.32mm	
Conductor Cross Section Area	2.90mm²	
Length	30m	



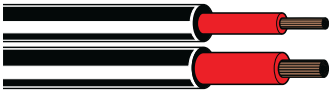
Single Core Automotive Cable - 6mm

8825	8KL 905 541-221	■ BLACK
8826	8KL 905 541-231	■ RED
Cable Diameter	6mm	
Strand No./Dia.	57/0.32mm	
Conductor Cross Section Area	4.59mm²	
Length	30m	



Single Core Automotive Cable - Double Insulated

8850	8KL 905 547-001		4MM CABLE
8851	8KL 905 547-011		6MM CABLE
Strand No./Dia.	8850 - 23/0.32mm	8851 - 57/0.32mm	
Conductor Cross Section Area	8850 - 1.84mm²	8851 - 4.59mm²	
Length	30m		



2 Core Figure 8 Cable



	8840 8KL 905 544-001	**8845** 8KL 905 544-011
Cable Diameter	3mm	4mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm
Conductor Cross Section Area	1.13mm²	1.84mm²
Length	30m	30m

2 Core Sheathed Cable



	8846 8KL 905 546-001	**8847** 8KL 905 546-011	**8848** 8KL 905 546-021	**8849** 8KL 905 546-031
Cable Diameter	3mm	4mm	5mm	6mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm	2 x 36/0.32mm	2 x 57/0.32mm
Conductor Cross Section Area	1.13mm²	1.84mm²	2.90mm²	4.59mm²
Length	30m			

5 Core Cable



8832	8KL 905 542-001
Cable Diameter	2.5mm
Strand No./Dia.	5 x 8/0.32mm
Conductor Cross Section Area	0.64mm^2
Length	30m

7 Core Cable



8833	8KL 905 542-011
Cable Diameter	2.5mm
Strand No./Dia.	7 x 8/0.32mm
Conductor Cross Section Area	0.64mm^2
Length	30m

HELLA Workshop

High quality inspection lamps and testing equipment designed to meet the needs of discerning do-it-yourself and professional technicians.





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HELLA Workshop

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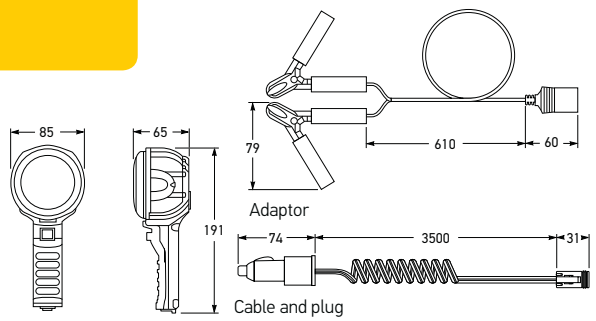
Testers..... 390

Tyre Pressure Gauge/Hour Meter 391

LED Hand Held Spot Lamps

The new LED hand held spot lamp only uses 1/3 of the power consumption of the 1520. It has a compact size and light weight, and is comfortable to hold even for long periods. The LED spot lamp comes with a spiral plug-in cable (which can stretch up to 3.5m) and a DT connector, which allows a custom cable to be fitted to suit your own requirements.





Voltage 12V

1520LED	2XM 958 372-001	LONG RANGE
1521LED	2XM 958 373-001	MEDIUM RANGE
Voltage	10-16V DC	
Power Consumption	35W	
Light Output	1350 lumen	
Compliance		

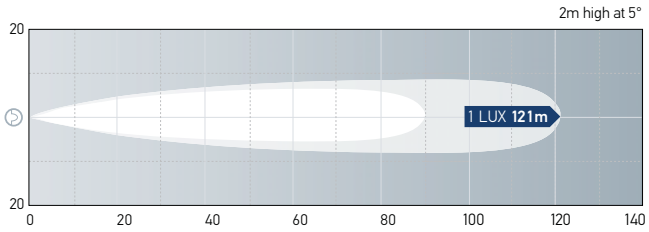


Battery clips to power socket adaptor (Supplied)

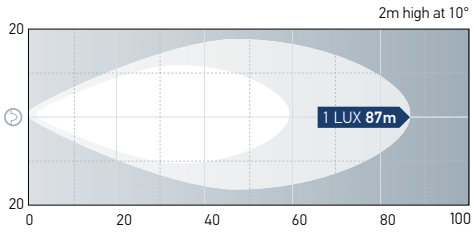
HELLA Bag (Supplied)



Long Range



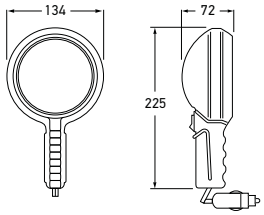
Medium Range



Hand Held Spot Lamps

Blue (Part No. 1520) hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and on-off switch. Black (Part No. 1524) hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and momentary pressure contact on-off switch.





Voltage 12V

LONG RANGE HAND HELD SPOT LAMP		
1520	2XM 905 113-001 – (On-Off Switch)	BLUE
1524	2XM 910 343-001 – (On-Off Momentary Switch)	BLACK
Voltage	12V sealed beam included	
Power Consumption	100W	
Spare Parts	1089 (IM4 905 805-001) Sealed beam 9.1520.06 (6EH 905 808-001) Switch - on-off 9.1524.06 (IM4 910 333-002) Switch - momentary 9.1520.07 (8KA 951 191-001) Plug and 2m extendable sheathed cable	



9.1520.07 9.1524.06 9.1520.06

Circuit Tester

Circuit Tester for quick fault tracing in vehicle electrical systems. Sturdy metal construction with screw-off cap and testing needle.



7013	8PD 003 798-001
Globe to Suit	24V – M243 (8GM 002 094-242)
Suits	6, 12 and 24V applications

Timing Light/Analyser

Timing Light/Analyser for all 4, 5, 6 and 8-cylinder engines with stroboscope, dwell-angle meter, rev-counter and voltmeter with voltage tester (0-16V). Enables adjustment timing whilst simultaneously measuring the engine speed. Features corrosion and impact resistant housing and inductive clamp. Suitable for 12V DC electrical systems with standard or transistorised ignition.



7022	8PD 004 834-001		12 VOLT
Voltage	0-16V DC		
Dwell	4 cyl - 30°-90°	6 cyl - 0°-60°	8 cyl - Use 4 cyl x 0.5
RPM	4 cyl - 0-2400	6 cyl - 0-1600	8 cyl - Use 4 cyl x 0.5
Timing	Ignition timing and advance function		
Spare Parts	9.7023.01 (8PD 950 881-021) 9.7022.02 (8PD 905 666-001)	Xenon Flash Tube 1 Inductive Clamp 2	



1 9.7023.01 | 2 9.7022.02 | Face view

Timing Light

Timing Light with stroboscope for precise timing adjustment of all petrol engines. Features corrosion and impact resistant housing and inductive clamp.



7023	8PD 004 835-001		12 VOLT
Spare Parts	9.7023.01 (8PD 950 881-021) 9.7022.02 (8PD 950 881-021)	Xenon Flash Tube 1 Inductive Clamp 2	



1 9.7023.01 | 2 9.7022.02 | Assembled view

Compression Tester

For spark-plug holes of either 14 or 18mm diameter. Diagnosing different cylinder compression values early enough prevents possible later engine damage.

7026	8PD 004 838-001
Test Range	0-21 bar (0-300psi)



Battery Acid Tester

Handy and robust instrument for professional measurement of the battery charge and acid density in lead batteries. A new suction system design prevents bubbles from forming and keeps the liquid to be tested from flowing back. The precision measuring unit can be rotated 360° allowing measurement regardless of the position of the unit.

7036	8PD 006 541-001
Measuring Tolerance	Less than +/-1%



Anti-Freeze Tester

Professional Tester for measuring the freezing point of the water in automobile cooling systems. The new suction system design prevents bubbles from forming and keeps water from flowing back.

7037	8PD 006 542-001
Measuring Tolerance	Less than +/-1%.
Does not measure Glycol concentration. Measures freezing point depression of Glycol-based coolant.	



Tyre Pressure Gauge – Chrome

Tough all-metal chrome-plated housing, with pressure-release valve. Easy-to-read scale in bars and psi. Supplied with sturdy protective case.

7039	8PD 006 535-001
Test Range	0-4 bars (0-56psi)



Hour Meter

Visual mechanism to indicate operation. Quick and easy to mount with attached metal bracket. Suitable for 12V to 60V DC (24MA).

7050	8ET 950 833-001
Face Diameter	60mm
Mounting	52mm dia. opening



Automotive Globes

HELLA's automotive globes are renowned for their uncompromising adherence to the highest quality and safety standards.





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QUICK REFERENCE UPGRADE GLOBE GUIDE

Blue

XENON WHITE ULTRA-BLUE – WHITER (UP TO 4200°K)

These globes come close to emulating the colour of a Xenon HID lamp. The high colour temperature of the Cool Blue globes creates the crisp white light which provides illumination that is conspicuous while being easy on the eye

UPGRADE GLOBES

Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	H1XWUBLUEDP2	ADR COMPLIANCE	12V	55W	P14.5s	Twin		398
	H3	H3XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PK22s	Twin		400
	H4	H4XWUBLUEDP2	ADR COMPLIANCE	12V	60/55W	P43t	Twin		401
	HB3	HB3XWUBLUEDP2	ADR COMPLIANCE	12V	60W	P20d	Twin		402
	HB4	HB4XWUBLUEDP2	ADR COMPLIANCE	12V	51W	P22d	Twin		403
	H7	H7XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PX26d	Twin		404
	H9	H9XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PX26d	Twin		405
	H11	H11XWUBLUEDP2	ADR COMPLIANCE	12V	55W	PX26d	Twin		405
	T4W	HLB124BL2	ADR COMPLIANCE	12V	4W	BA9s	Twin		408
	W5W	WBQ125BL2	ADR COMPLIANCE	12V	5W	W2.1x9.5d	Twin		416

Plus100 LongLife

PLUS100 LONGLIFE - UP TO 2.5 TIMES THE LIFETIME AND 100% GREATER ILLUMINATION.

A new generation of high performance Halogen Globes specifically designed to cope with the extreme demands of 24-volt heavy-duty commercial transport applications. The advanced single-coil filament technology is highly vibration resistant and up to 100% brighter than normal, typically extending useful illumination of the road by 20 metres and delivering double the service life of standard globes.

UPGRADE GLOBES

Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated Life T_C (Hrs)		Page
	H1	C2470LTS	ADR COMPLIANCE	24V	70W	P14.5s	LONGLIFE 1200	STANDARD 650	398
	H3	YC2470LTS	ADR COMPLIANCE	24V	70W	PK22s	LONGLIFE 1200	STANDARD 650	400
	H4	XD2475/70LTS	ADR COMPLIANCE	24V	75/70W	P43t	LONGLIFE 1400	STANDARD 700	401
	H7	CA2470LTS	ADR COMPLIANCE	24V	70W	PX26d	LONGLIFE 1000	STANDARD 550	404

LONGLIFE (LL) - UP TO TWICE THE LIFE

LongLife (LL) globes are increasing in popularity for applications such as taxis and drivers using headlamps during the day. Many new vehicles now come equipped with LongLife globes as a standard fitment. The globes will provide safe and legal light performance and can be rated at twice or greater the service life of standard globes.

UPGRADE GLOBES

Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated Life T_c (Hrs)		Page
12V LONGLIFE GLOBES									
	H1	C1255LL	ADR	12V	55W	P14.5s	LONGLIFE 1250	STANDARD 400	398
	H1	H1-LLDP2	ADR	12V	55W	P14.5s	LONGLIFE 1250	STANDARD 400	398
	H3	YC1255LL	ADR	12V	55W	PK22s	LONGLIFE 1500	STANDARD 450	400
	H3	H3-LLDP2	ADR	12V	55W	PK22s	LONGLIFE 1500	STANDARD 450	400
	H4	XD1260/55LL	ADR	12V	60/55W	P43t	LONGLIFE 1500	STANDARD 700	401
	H4	H4-LLDP2	ADR	12V	60/55W	P43t	LONGLIFE 1500	STANDARD 700	401
	HB3	HB3-LLDP2	ADR	12V	60W	P20d	LONGLIFE 1500	STANDARD 700	402
	HB4	HB4-LLDP2	ADR	12V	51W	P22d	LONGLIFE 1500	STANDARD 700	403
	HB5	CC1265/55LL	SAE	12V	65/55W	PX29t	LONGLIFE 1500	STANDARD 700	403
	H7	CA1255LL	ADR	12V	55W	PX26d	LONGLIFE 930	STANDARD 550	404
	H7	H7-LLDP2	ADR	12V	55W	PX26d	LONGLIFE 930	STANDARD 550	404
	H9	H9-LLDP2	ADR	12V	65W	PGJ19-5	LONGLIFE 650	STANDARD 500	405
	H11	H11-LLDP2	ADR	12V	55W	PGJ19-2	LONGLIFE 1800	STANDARD 580	405
	R5W	G125LL	ADR	12V	5W	BA15s	LONGLIFE 1500	STANDARD 300	411
	R10W	G1210LL	ADR	12V	10W	BA15s	LONGLIFE 500	STANDARD 300	411
	PY21W	RY1221LL	ADR	12V	21W	BAU15s	LONGLIFE 2400	STANDARD 450	412
	P21W	R1221LL	ADR	12V	21W	BA15s	LONGLIFE 1000	STANDARD 320	412
	P21/5W	S1221/5VLL	ADR	12V	21/5W	BAY15d	LONGLIFE *800	STANDARD *320	413
	W5W	W125LL	ADR	12V	5W	W2.1x9.5d	LONGLIFE 2000	STANDARD 700	416
24V LONGLIFE GLOBES									
	H1	H1-LL-24VDP2	ADR	24V	70W	P14.5s	LONGLIFE 1250	STANDARD 400	398
	H3	H3-LL-24VDP2	ADR	24V	70W	PK22s	LONGLIFE 1500	STANDARD 450	400
	H4	XD2475/70LL	ADR	24V	75/70W	P43t	LONGLIFE 1500	STANDARD 700	401
	H4	H4-LL-24VDP2	ADR	24V	75/70W	P43t	LONGLIFE 1500	STANDARD 700	401
	H7	H7-LL-24VDP2	ADR	24V	70W	PX26d	LONGLIFE 930	STANDARD 550	404
	T4W	HL244LL	ADR	24V	4W	BA9s	LONGLIFE 1000	STANDARD 350	409
	R5W	G245LL	ADR	24V	5W	BA15s	LONGLIFE 1000	STANDARD 225	411
	R10W	G2410LL	ADR	24V	10W	BA15s	LONGLIFE 1000	STANDARD 225	411
	PY21W	RY2421LL	ADR	24V	21W	BAU15s	LONGLIFE 500	STANDARD N/A	412
	P21W	R2421LL	ADR	24V	21W	BA15s	LONGLIFE 1000	STANDARD 160	412

*Test performed on main filament only.

PLATINUM WHITE-PLUS 100 - UP TO + 100% BRIGHTER

Plus 100 globes are the ideal globes for drivers looking to increase safety with more light on the road. This halogen globe produces up to 100% more light on the road, has a beam that is up to 25 metres longer and provides light that is up to 10% whiter than a standard globe.

UPGRADE GLOBES

Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	H1-PW100DP2	ADR	12V	55W	P14.5s	Twin		398
	H3	H3-PW100DP2	ADR	12V	55W	PK22s	Twin		400
	H4	H4-PW100DP2	ADR	12V	60/55W	P43t	Twin		401
	H7	H7-PW100DP2	ADR	12V	55W	PX26d	Twin		404
	H9	H9-PW100DP2	ADR	12V	65W	PGJ19-5	Twin		405
	H11	H11-PW100DP2	ADR	12V	55W	PGJ19-2	Twin		405
	HB3	HB3-PW100DP2	ADR	12V	60W	P20d	Twin		402
	HB4	HB4-PW100DP2	ADR	12V	51W	P22d	Twin		403

SUPERVISION-PLUS 50 - UP TO + 50% BRIGHTER

Plus 50 globes take lighting even further by providing up to 50% more illumination on the road than a standard headlamp globe while emitting a 10-20m longer beam.

UPGRADE GLOBES

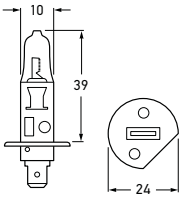
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	H1-SV50DP2	ADR	12V	55W	P14.5s	Twin		398
	H3	H3-SV50DP2	ADR	12V	55W	PK22s	Twin		400
	H4	H4-SV50DP2	ADR	12V	60/55W	P43t	Twin		401
	H7	H7-SV50DP2	ADR	12V	55W	PX26d	Twin		404
	H9	H9-SV50DP2	ADR	12V	65W	PGJ19-5	Twin		405
	H11	H11-SV50DP2	ADR	12V	55W	PGJ19-2	Twin		405
	HB3	HB3-SV50DP2	ADR	12V	60W	P20d	Twin		402
	HB4	HB4-SV50DP2	ADR	12V	51W	P22d	Twin		403



H1-SV50DP2



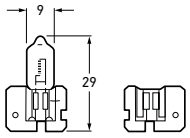
Retail Packaging



HALOGEN GLOBES - H1						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
H1-SV50DP2 8GH 211 730-391	12V	55W	P14.5s	H1	Twin	■
H1-XWUBLUEDP2 8GH 211 730-401	12V	55W	P14.5s	H1	Twin	■
H1-PW100DP2 8GH 211 730-421	12V	55W	P14.5s	H1	Twin	■
H1-LLDP2 8GH 178 555-381	12V	55W	P14.5s	H1	Twin	■
H1-LL-24VDP2 8GH 178 555-414	24V	70W	P14.5s	H1	Twin	■

HALOGEN GLOBES - H1						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_C (Hrs)**	
C2470LTS 8GH 002 089-492	24V	70W	P14.5s	H1	LONGLIFE 1200	STANDARD 650
C1255LL 8GH 002 089-352	12V	55W	P14.5s	H1	LONGLIFE 1250	STANDARD 400

HALOGEN GLOBES - H1						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
C12100 8GH 002 089-152	12V	100W	P14.5s	-	-	
C12100BL 8GH 002 089-154	12V	100W	P14.5s	-	-	■
C24100 8GH 002 089-452	24V	100W	P14.5s	-	-	
C24100BL 8GH 002 089-454	24V	100W	P14.5s	-	-	■
C1255 8GH 002 089-131	12V	55W	P14.5s	H1	-	
C1255BL 8GH 002 089-132	12V	55W	P14.5s	H1	-	■
C2455 8GS 910 367-001	24V	55W	P14.5s	-	-	
C2470 8GH 002 089-252	24V	70W	P14.5s	H1	-	
C2470BL 8GH 002 089-254	24V	70W	P14.5s	H1	-	■





CD12100

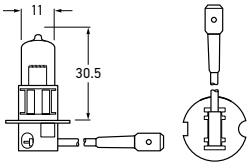
HALOGEN GLOBES - H2						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
CD12100 8GH 002 857-152	12V	100W	X511	-	-	
CD1255 8GH 002 857-124	12V	55W	X511	H2	-	
CD24100 8GH 002 857-231	24V	100W	X511	-	-	
CD2470 8GH 002 857-242	24V	70W	X511	H2	-	



H3-SV50DP2



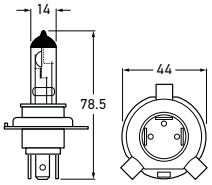
Retail Packaging



HALOGEN GLOBES - H3						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
H3-SV50DP2 8GH 211 730-431 Plus 50%	12V	55W	PK22s	H3	Twin	
H3-XWUBLUEDP2 8GH 211 730-441 Blue	12V	55W	PK22s	H3	Twin	
H3-PW100DP2 8GH 211 730-461 Plus 100%	12V	55W	PK22s	H3	Twin	
H3-LLDP2 8GH 211 730-471 LongLife 12V	12V	55W	PK22s	H3	Twin	
H3-LL-24VDP2 8GH 178 555-424 LongLife 24V	24V	70W	PK22s	H3	Twin	

HALOGEN GLOBES - H3						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_c (Hrs)**	
YC1255LL 8GH 002 090-111 LongLife 12V	12V	55W	PK22s	H3	LONGLIFE 1500	STANDARD 450
YC2470LTS 8GH 002 090-472 Plus100 LongLife	24V	70W	PK22s	H3	LONGLIFE 1200	STANDARD 650

HALOGEN GLOBES - H3						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
YC12100 8GH 002 090-051	12V	100W	PK22s	-		
YC12100BL 8GH 002 090-052	12V	100W	PK22s	-	Single	
YC24100 8GH 002 090-452	24V	100W	PK22s	-		
YC24100BL 8GH 002 090-454	24V	100W	PK22s	-	Single	
YC1255 8GH 002 090-131	12V	55W	PK22s	H3		
YC1255BL 8GH 002 090-133	12V	55W	PK22s	H3	Single	
YC2470 8GH 002 090-254	24V	70W	PK22s	H3		
YC2470BL 8GH 002 090-256	24V	70W	PK22s	H3	Single	



HALOGEN GLOBES - H4						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
H4-SV50DP2 8GJ 002 525-653	12V	60/55W	P43t	H4	Twin	
H4-XWUBLUEDP2 8GJ 002 525-364	12V	60/55W	P43t	H4	Twin	
H4-PW100DP2 8GJ 211 730-491	12V	60/55W	P43t	H4	Twin	
H4-LLDP2 8GJ 178 555-391	12V	60/55W	P43t	H4	Twin	
H4-LL-24VDP2 8GJ 178 555-434	24V	75/70W	P43t	H4	Twin	



H4-SV50DP2



Retail Packaging

HALOGEN GLOBES - H4						
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_C (Hrs)**	
XD2475/70LTS 8GJ 002 525-712	24V	75/70W	P43t	H4	LONGLIFE 1400	STANDARD 700

HALOGEN GLOBES - H4						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_C (Hrs)**	
XD1260/55LL 8GJ 002 525-482	12V	60/55W	P43t	H4	LONGLIFE 1500	STANDARD 700
XD2475/70LL 8GJ 002 525-701	24V	75/70W	P43t	H4	LONGLIFE 1500	STANDARD 700



XD1260/55LL

HALOGEN GLOBES - H4						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
XD12100/55 8GJ 002 525-102	12V	100/55W	P43t	-	-	
XD12100/90 8GJ 002 525-202	12V	100/90W	P43t	-	-	
XD12100/90BL 8GJ 002 525-205	12V	100/90W	P43t	-	-	
XD24100/90 8GJ 002 525-452	24V	100/90W	P43t	-	-	
XD1260/55 8GJ 002 525-131	12V	60/55W	P43t	H4	-	
XD1260/55BL 8GJ 002 525-133	12V	60/55W	P43t	H4	-	
XD2475/70 8GJ 002 525-254	24V	75/70W	P43t	H4	-	
XD2475/70BL 8GJ 002 525-255	24V	75/70W	P43t	H4	-	



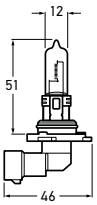
HB3-SV50DP2



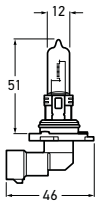
Cool Blue



Retail Packaging



HALOGEN GLOBES - HB3						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
HB3-SV50DP2 8GH 211 730-631	12V	60W	P20d	HB3	Twin	■
HB3-XWUBLUEDP2 8GH 211 730-641	12V	60W	P20d	HB3	Twin	■
HB3-PW100DP2 8GH 211 730-661	12V	60W	P20d	HB3	Twin	■
HB3-LLDP2 8GH 005 635-021	12V	60W	P20d	HB3	Twin	■
CB1265 8GH 956 174-041	12V	60W	P20d	HB3	-	




HB4-SV50DP2

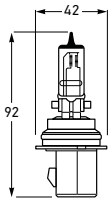

Cool Blue

HALOGEN GLOBES - HB4

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
HB4-SV50DP2 8GH 211 730-671 Plus 50%	12V	51W	P22d	HB4	Twin	■
HB4-XWUBLUEDP2 8GH 211 730-681 Blue	12V	51W	P22d	HB4	Twin	■
HB4-PW100DP2 8GH 211 730-701 Plus 100%	12V	51W	P22d	HB4	Twin	■
HB4-LLDP2 8GH 211 730-711 LongLife 12V	12V	51W	P22d	HB4	Twin	■
CC1255 8GH 005 636-122	12V	51W	P22d	HB4	-	



■ Retail Packaging




CC1265/55LL

HALOGEN GLOBES - HB5

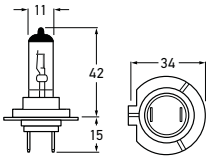
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T_C (Hrs)	
CC1265/55LL 8GJ 008 824-141 LongLife 12V	12V	65/55W	PX29t	-	LONGLIFE 1500	STANDARD 700
Note	SAE Category HB5					



H7-SV50DP2



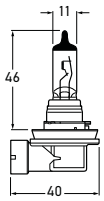
Retail Packaging



HALOGEN GLOBES - H7						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
H7-SV50DP2 8GH 178 555-581	12V	55W	PX26d	H7	Twin	
H7-XWUBLUEDP2 8GH 178 555-571	12V	55W	PX26d	H7	Twin	
H7-PW100DP2 8GH 211 730-511	12V	55W	PX26d	H7	Twin	
H7-LLDP2 8GH 211 730-521	12V	55W	PX26d	H7	Twin	
H7-LL-24VDP2 8GH 211 730-531	24V	70W	PX26d	H7	Twin	

HALOGEN GLOBES - H7						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_c (Hrs)**	
CA2470LTS 8GH 007 157-232	24V	70W	PX26d	H7	LONGLIFE 1000	STANDARD 500
CA1255LL 8GH 007 157-202	12V	55W	PX26d	H7	LONGLIFE 930	STANDARD 550

HALOGEN GLOBES - H7						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
CA1255 8GH 007 157-124	12V	55W	PX26d	H7	-	
CA1255BL 8GH 007 157-128	12V	55W	PX26d	H7	-	
CA2470 8GH 007 157-242	24V	70W	PX26d	H7	-	

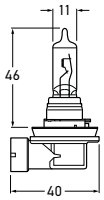




CE1235

HALOGEN GLOBES - H8

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
CE1235 8GH 008 356-122	12V	35W	PGJ 19-1	H8		





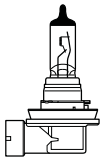
H9-SV50DP2



Retail Packaging

HALOGEN GLOBES - H9

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H9-SV50DP2 8GH 211 730-541	12V	65W	PGJ 19-5	H9	Twin	
H9-XWUBLUEDP2 8GH 211 730-551	12V	65W	PGJ 19-5	H9	Twin	
H9-PW100DP2 8GH 211 730-571	12V	65W	PGJ 19-5	H9	Twin	
H9-LLDP2 8GH 211 730-581	12V	65W	PGJ 19-5	H9	Twin	
CF1265 8GH 008 357-002	12V	65W	PGJ 19-5	H9	-	





H11-SV50DP2



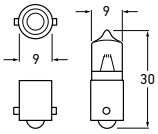
Retail Packaging

HALOGEN GLOBES - H11

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H11-SV50DP2 8GH 211 730-591	12V	55W	PGJ 19-2	H11	Twin	
H11-XWUBLUEDP2 8GH 211 730-601	12V	55W	PGJ 19-2	H11	Twin	
H11-PW100DP2 8GH 211 730-621	12V	55W	PGJ 19-2	H11	Twin	
H11-LLDP2 8GH 178 555-401	12V	55W	PGJ 19-2	H11	Twin	
CG1255 8GH 008 358-122	12V	55W	PGJ 19-2	H11	-	
CG2470 8GH 008 358-242	24V	70W	PGJ 19-2	H11	-	



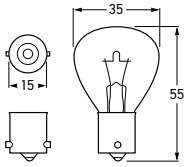
YL125



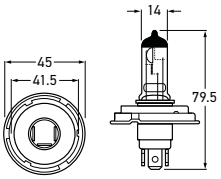
SPECIAL PURPOSE HALOGEN GLOBES - TRANSVERSE FILAMENT						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
YL125 8GH 002 473-152	12V	5W	BA9s	-		
YL1210 8GH 002 473-171	12V	10W	BA9s	-		



U1245



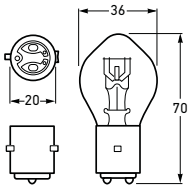
SPECIAL GLOBES FOR EMERGENCY FLASHER AND REVOLVING LAMPS						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
U1245 8GA 002 074-122	12V	45W	BA15s	-		
U2445 8GA 002 074-242	24V	45W	BA15s	-		





XE1260/55

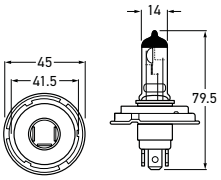
HALOGEN HEADLAMP GLOBES						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
XE1260/55 8GJ 004 173-122	12V	60/55W	P45t	-		
XE2475/70 8GJ 003 133-241	24V	75/70W	P45t	-		





D1235/35

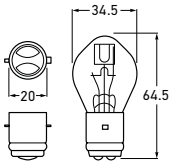
HEADLAMP GLOBES						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
D1235/35 8GD 002 084-132	12V	35/35W	BA20d	S2		





A2455/50

A2455/50 8GD 002 088-252	24V	55/50W	P45t	R2		



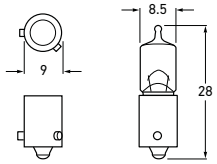


B1245/40

B1245/40 8GD 002 084-152	12V	45/40W	BA20d	-		
Note	Bosch base					



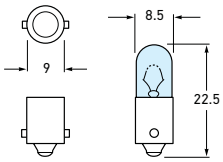
W126BL2



HALOGEN MINIATURE GLOBES						
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
W126BL2 8GH 007 643-122	12V	6W	BAX9s	H6W	Twin	



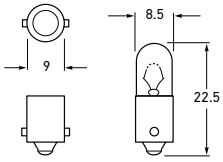
HLB124BL2



MINIATURE GLOBES						
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	**Pack Qty**	
HLB124BL2 8GP 002 067-012 Blue	12V	4W	BA9s	T4W	Twin	

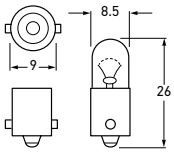


HL126X



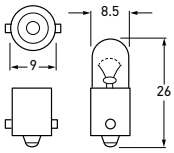
MINIATURE GLOBES - MINIXEN						
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
HL126X 8GA 007 676-131	12V	6W	BA9s	-		

High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.



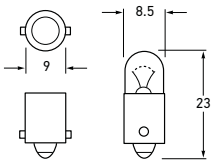

HL244LL

MINIATURE GLOBES						
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_C (Hrs)**	
HL244LL LongLife 24V 8GP 002 067-262	24V	4W	BA9s	T4W	LONGLIFE 1000	STANDARD 350



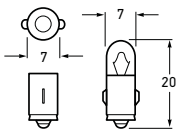

HL64

MINIATURE GLOBES						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
HL64 8GP 002 067-062	6V	4W	BA9s	T4W		
HL124 8GP 002 067-152	12V	4W	BA9s	T4W		
HL244 8GP 002 067-243	24V	4W	BA9s	T4W		



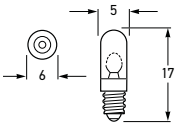

H122

H122 8GP 002 068-122	12V	2W	BA9s	-		
H123 8GP 002 068-132	12V	3W	BA9s	-		
H242 8GP 002 068-242	24V	2W	BA9s	-		




J122

J122 8GP 002 066-122	12V	2W	BA7s	-		
J243 8GP 002 066-242	24V	3W	BA7s	-		




292

292 8GP 002 095-081	12V	1.5W	E 5.5	-	-	





K1210

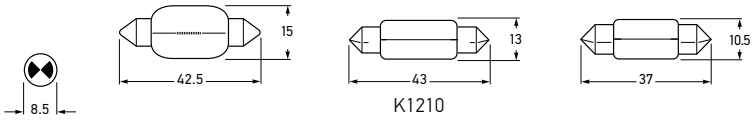




M123

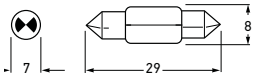


N1210

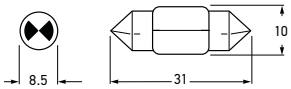


K1210

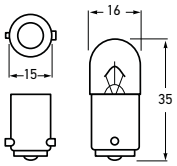
FESTOON GLOBES						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**		
L125 8GM 002 092-124	12V	5W	SV8.5	C5W		
L1210 8GM 993 406-002	12V	10W	SV8.5	-		
L2410 8GM 002 091-031	24V	10W	SV8.5	-		
L245 8GM 002 092-243	24V	5W	SV8.5	C5W		
K1210 8GM 002 091-133	12V	10W	SV8.5			
K2410 8GM 002 091-251	24V	10W	SV8.5			
K1218 8GM 002 091-122	12V	18W	SV8.5	-		
K1221 8GM 002 091-182	12V	21W	SV8.5	C21W		
K2418 8GM 002 091-242	24V	18W	SV8.5	-		



M123 8GM 002 094-121	12V	3W	S7	-		
M243 8GM 002 094-242	24V	3W	S7	-		



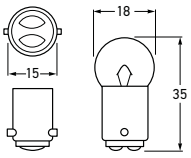
N1210 8GM 002 091-301	12V	10W	SV8.5	-		





G125LL

REAR POSITION, MARKER AND CLEARANCE GLOBES						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_C (Hrs)**	
G125LL 8GA 002 071-352	12V	5W	BA15s	R5W	LONGLIFE 1500	STANDARD 300
G1210LL 8GA 002 071-342	12V	10W	BA15s	R10W	LONGLIFE 500	STANDARD 300
G245LL 8GA 002 071-262	24V	5W	BA15s	R5W	LONGLIFE 1000	STANDARD 225
G2410LL 8GA 002 071-272	24V	10W	BA15s	R10W	LONGLIFE 1000	STANDARD 225
G610 8GA 002 071-072	6V	10W	BA15s	R10W		
G125 8GA 002 071-124	12V	5W	BA15s	R5W		
G1210 8GA 002 071-134	12V	10W	BA15s	R10W		
G242 8GS 910 363-001	24V	2W	BA15s	R2W		
G245 8GA 002 071-243	24V	5W	BA15s	R5W		
G2410 8GA 002 071-253	24V	10W	BA15s	R10W		



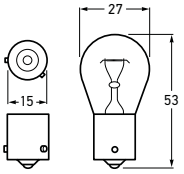


GD125

GD125 8GA 002 071-371	12V	5W	BA15d	R5W		
GD245 8GA 002 071-361	24V	5W	BA15d	R5W		



RY1221LL

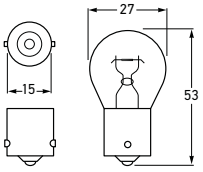


BAYONET INDICATOR AND STOP LAMP GLOBES

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T_c (Hrs)	
					LONGLIFE	STANDARD
RY1221LL 8GA 006 841-041 LongLife 12V	12V	21W	BAU15s	PY21W	2400	450
RY2421LL 8GA 006 841-252 LongLife 24V	24V	21W	BAU15s	PY21W	750	N/A
RY1221 8GA 006 841-122	12V	21W	BAU15s	PY21W		



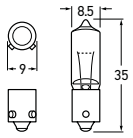
R1221LL



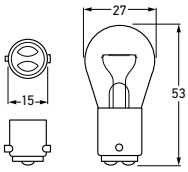
R1221LL 8GA 002 073-272 LongLife 12V	12V	21W	BA15s	P21W	1000	320
R2421LL 8GA 002 073-252 LongLife 24V	24V	21W	BA15s	P21W	500	160



RQ1221

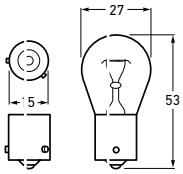


RQ1221 8GH 008 417-002	12V	21W	BAY9s	H21W		
RQ2421 8GH 008 417-013	24V	21W	BAY9s	H21W		



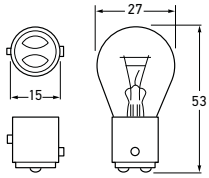

FD1221

BAYONET INDICATOR AND STOP LAMP GLOBES				
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**
FD1221 8GA 002 073-161	12V	21W	BA15d	P21W
FD2421 8GA 002 073-031	24V	21W	BA15d	P21W




R618

R1218 8GA 002 072-122	12V	18W	BA15s	
R1221 8GA 002 073-124	12V	21W	BA15s	P21W
R2418 8GA 002 072-242	24V	18W	BA15s	
R2421 8GA 002 073-243	24V	21W	BA15s	P21W

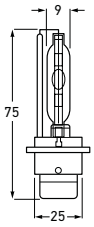


BAYONET STOP AND TAIL LAMP GLOBES						
Part Numbers	**Voltage**	**Power Consumption**	**Base**	**ADR 51/00 Category**	***Rated Life T_C (Hrs)**	
S1221/5VLL 8GD 002 078-172	12V	21/5W	BAY15d	P21/5W	LONGLIFE *800	STANDARD *320
Note	*Test performed on main filament only.					
S1221/5V 8GD 002 078-124	12V	21/5W	BAY15d	P21/5W		
S2418/5V 8GD 002 078-071	24V	18/5W	BAY15d			
S2421/5V 8GD 002 078-012	24V	21/5W	BAY15d	P21/5W		


S1221/5VLL



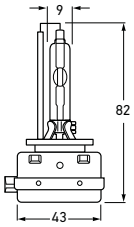
XN4000



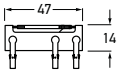
D2S XGD GLOBES					
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 78/00 Category**	**Colour Temperature**
XN4000 8GS 007 949-102	85V	35W	P32d-2	D2S	4200°K
Note	For use only with appropriate electronic control gear.				



XN4001



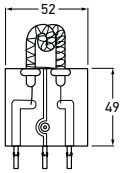
D1S XGD GLOBE					
Part Number	**Voltage**	**Power Consumption**	**Base**	**ADR 78/00 Category**	**Colour Temperature**
XN4001 8GS 009 028-002	85V	35W	PK32d-2	D1S	4200°K
Note	For use only with appropriate electronic control gear.				





XN000

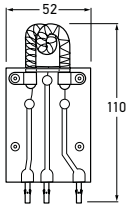
STROBE FLASH TUBES					
Part Numbers	**Voltage**	**Power Consumption**	**Base**		
XN000 8GS 910 369-001	12-72V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits Firebolt Plus Series Strobe Lamps.				



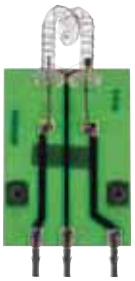


XN551

XN551 8GS 910 362-001	12-48V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits Pulsator 551 Series Strobe Lamps.				



XN850



XN850

STROBE FLASH TUBES				
Part Numbers	**Voltage**	**Power Consumption**	**Base**	
XN850 8GS 910 366-001	12/48V	-	Circuit Board	
Note	For use only with appropriate electronic control gear. Suits 851 Series Strobe Lamps.			

XN6750 8GS 910 370-001	12/24V	-	Circuit Board	
Note	For use only with appropriate electronic control gear. Suits 6750 Series Strobe Lamps.			



XN6750



WBQ125BL2



W126X



W125LL



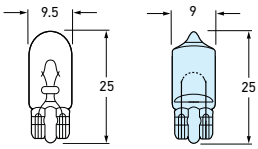
W122



W1221



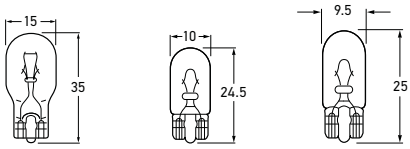
WBL122



W126X WBQ125BL2

HALOGEN WEDGE BASE GLOBES

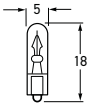
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
WBQ125BL2 Blue 8GP 003 594-291	12V	5W	W2.1x9.5d	W5W	Twin	
W126X 8GP 003 594-401	12V	6W	W2.1x9.5d	-	-	
High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.						



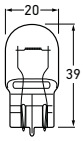
W1221 W122 W125LL

WEDGE BASE GLOBES

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T_c (Hrs)	
					LONGLIFE	STANDARD
W125LL LongLife 12V 8GP 003 594-161	12V	5W	W2.1x9.5d	W5W	1500	700
W122 8GP 002 095-071	12V	2 c.p	W2.1x9.5d	-		
W125 8GP 003 594-124	12V	5W	W2.1x9.5d	W5W		
W245 8GP 003 594-243	24V	5W	W2.1x9.5d	W5W		
W1221 8GA 008 246-001	12V	21 c.p	W2.1x9.5d	W16W		
WS1212 8GP 002 095-051	12V	12 c.p	W2.1x9.5d	-		



WBL122* 8GP 002 095-021	12V	2W	Wedge	-		
WS122 8GP 002 095-041	12V	2W	W2x4.6d	-		
WS242 8GP 002 095-011	24V	2W	W2x4.6d	-		
W121.2 8GP 002 095-121	12V	1.2W	W2x4.6d	-		
W241.2 8GP 002 095-242	24V	1.2W	W2x4.6d	-		
Note	*Special for early model Matrix high level brake lamps.					





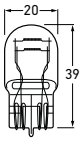
WG1221

GLASS WEDGE BASE GLOBES

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
WG1221 8GA 008 892-001	12V	21W	W3x16d	W21W	
WGY1221 8GP 009 021-123	12V	21W	W3x16d	WY21W	



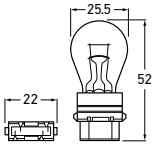
WGY1221





WG1221/5

WG1221/5 8GD 008 893-001	12V	21/5W	W3x16q	W21/5W	

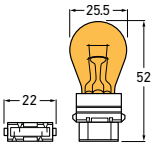




WP1227/7

PLASTIC WEDGE BASE GLOBES

Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
WP1227/7 8GD 007 731-271	12V	27/7W	W2.5x16q	P27/7W	



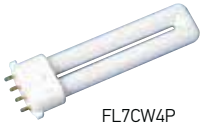


WPA1227/7

WPA1227/7 8GD 007 731-011	12V	27/7W	W2.5x16q	P27/7W	

FLUORESCENT TUBES

Part Numbers	Power Consumption	Base	Colour
FL7CW4P 8GS 861 955-051	7W	2G7	840 Cool White
Suits	2642/2642-24V		
FL11CW4P 8GS 861 955-022	11W	2G7	840 Cool White
Suits	2643/2643-24V/1523		



FL7CW4P



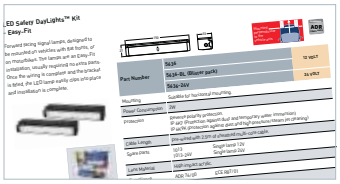
FL11CW4P

3RD EDITION ADR REFERENCE GUIDE

The following pages are a guide to mounting HELLA lamps in compliance with the Australian Design Rules (ADR). The diagrams in this section are intended as a general guide only, for exact mounting specifications please refer to ADR 13/00.

Compliance
ADR
COMPLIANCE

A quick reference



1. Find the product that fulfils your illumination requirement.



2. Check for the ADR symbol next to the part number to ensure it's compliance.



3. Look up the part number on the chart in this section for complete ADR information.

Simpler ADR Compliance

The 3rd edition ADR covers all vehicles and trailers, even those not subject to registration requirements such as very light trailers or 'box' trailers.

To simplify the ADR approval process for smaller manufacturers and individual home-builders, HELLA has made a consolidated Summary of Evidence (SE) submission to the Federal Office of Road Safety (FORS). This submission covers all HELLA products that comply with 3rd Edition ADRs.

This catalogue lists both the HELLA and FORS Component Registration Numbers (CRN) beside each item in a quick reference ADR application chart in this section.

HELLA provides specific ADR related lamp orientation and mounting requirements to enable customers requiring ADR compliance to simply quote the relevant CRN to the authorities (who maintain a central register), rather than undertake detailed SE submissions for each lamp function.

REAR

1	ADR 49/00	Rear End Outline Lamps
2	ADR 48/00	Number Plate Lamps
3	ADR 6/00: Cat.2	Rear Direction Indicators
4	ADR 49/00	Rear Position Lamps
5	ADR 49/00	Stop Lamps
6	ADR 47/00	Rear Retro Reflectors
7	ADR 1/00	Reversing Lamps

SIDE

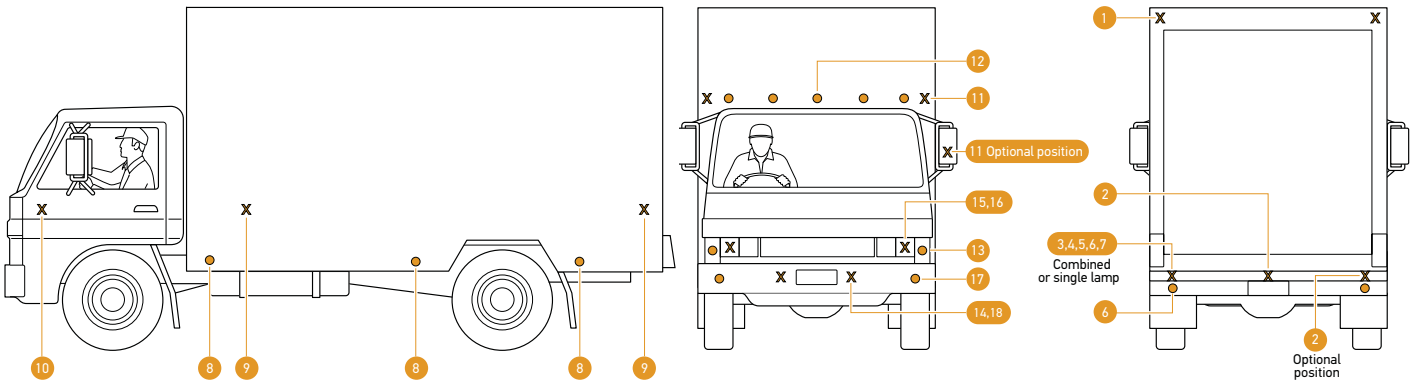
8	ADR 47/00	Side Retro Reflectors
9	ADR 45/01 or 74/00	Side Markers
10	ADR 6/00	Supplementary Side Direction Indicators

FRONT

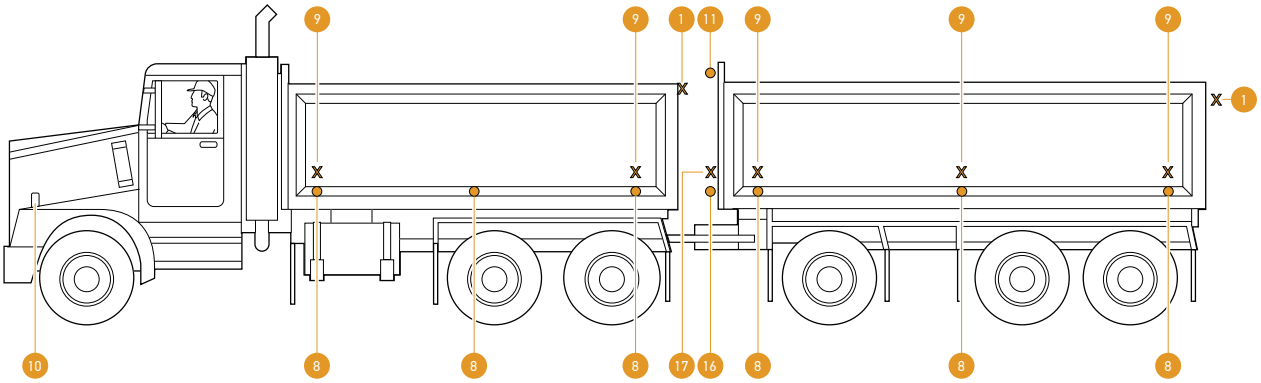
11	ADR 49/00	Front End Outline Lamps
12	ADR 45/01	Cab Markers (optional)
13	ADR 6/00: Cat.1	Front Direction Indicators
14	ADR 50/00	Front Fog Lamps (optional)
15	ADR 46/00	Headlamps
16	ADR 49/00	Front Position Lamps
17	ADR 47/00	Front Retro Reflectors
18	ADR 76/00	Daytime Running Lamps (optional)
19		Driving Lamps (optional)

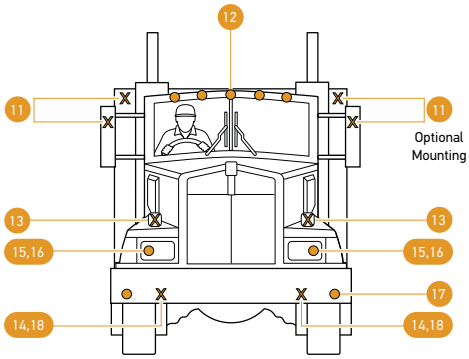
*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

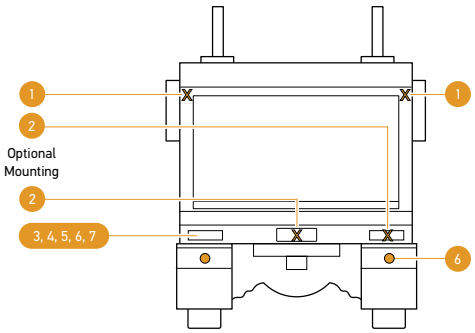
SMALL TRUCK



SINGLE TRAILER

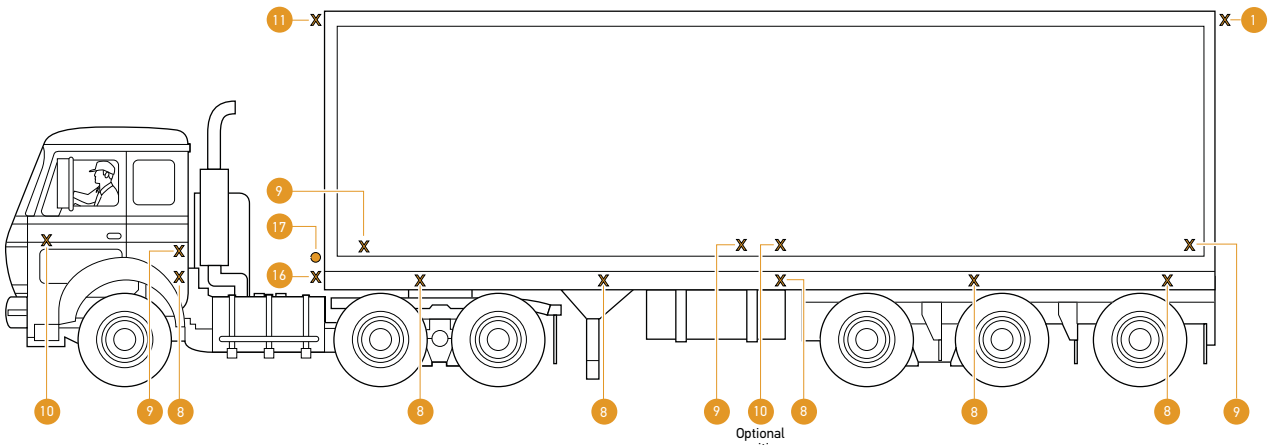


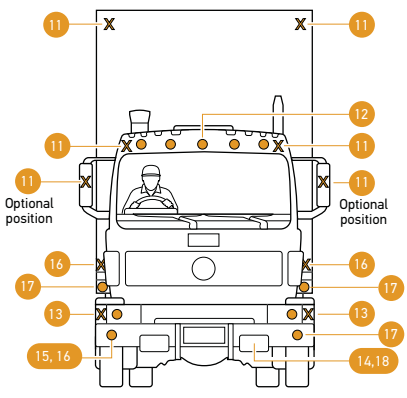


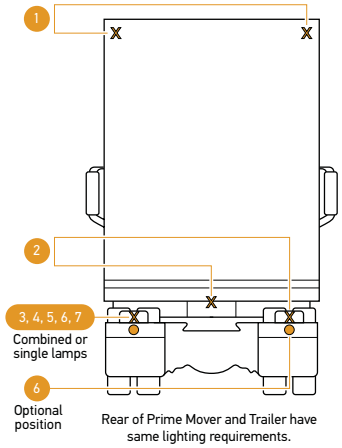


Rear of truck and trailer have same lighting requirements

SEMI TRAILER







Rear of Prime Mover and Trailer have same lighting requirements.

REAR

1	ADR 49/00	Rear End Outline Lamps
2	ADR 48/00	Number Plate Lamps
3	ADR 6/00: Cat.2	Rear Direction Indicators
4	ADR 49/00	Rear Position Lamps
5	ADR 49/00	Stop Lamps
6	ADR 47/00	Rear Retro Reflectors
7	ADR 1/00	Reversing Lamps

SIDE

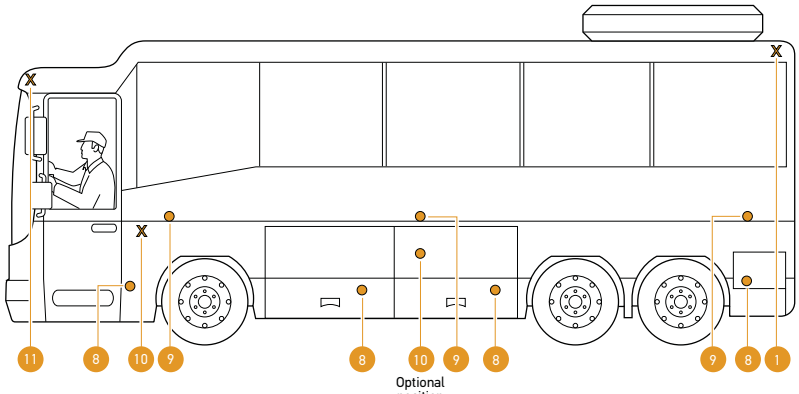
8	ADR 47/00	Side Retro Reflectors
9	ADR 45/01 or 74/00	Side Markers
10	ADR 6/00	Supplementary Side Direction Indicators

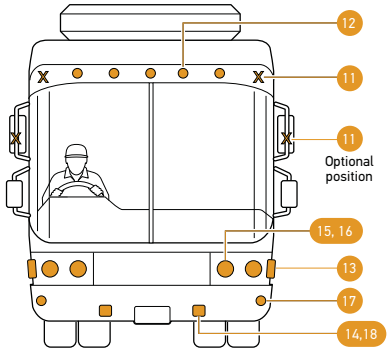
FRONT

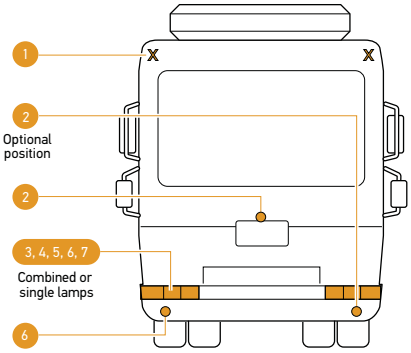
11	ADR 49/00	Front End Outline Lamps
12	ADR 45/01	Cab Markers (optional)
13	ADR 6/00: Cat.1	Front Direction Indicators
14	ADR 50/00	Front Fog Lamps (optional)
15	ADR 46/00	Headlamps
16	ADR 49/00	Front Position Lamps
17	ADR 47/00	Front Retro Reflectors
18	ADR 76/00	Daytime Running Lamps (optional)
19		Driving Lamps (optional)

*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

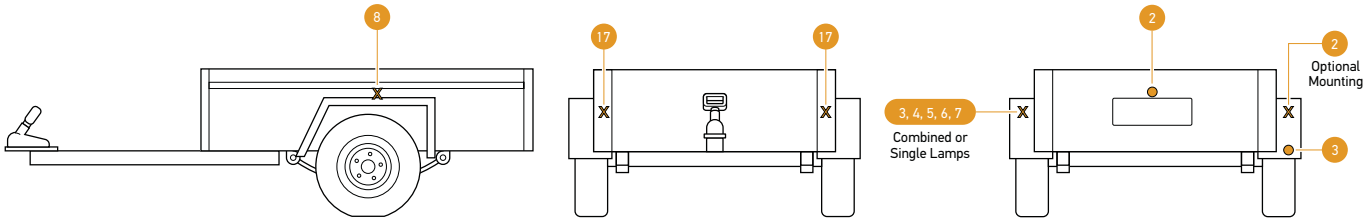
COACH



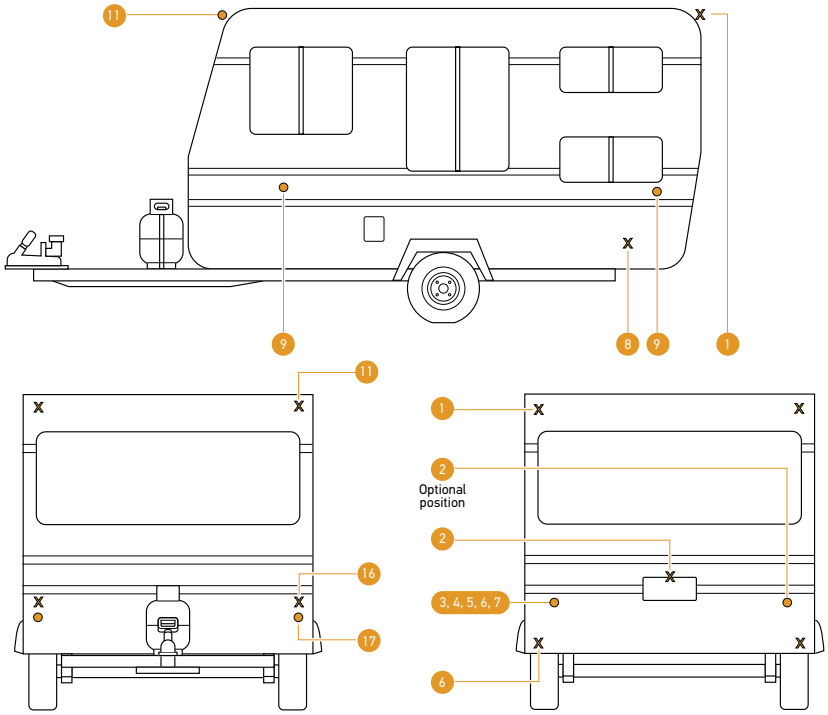




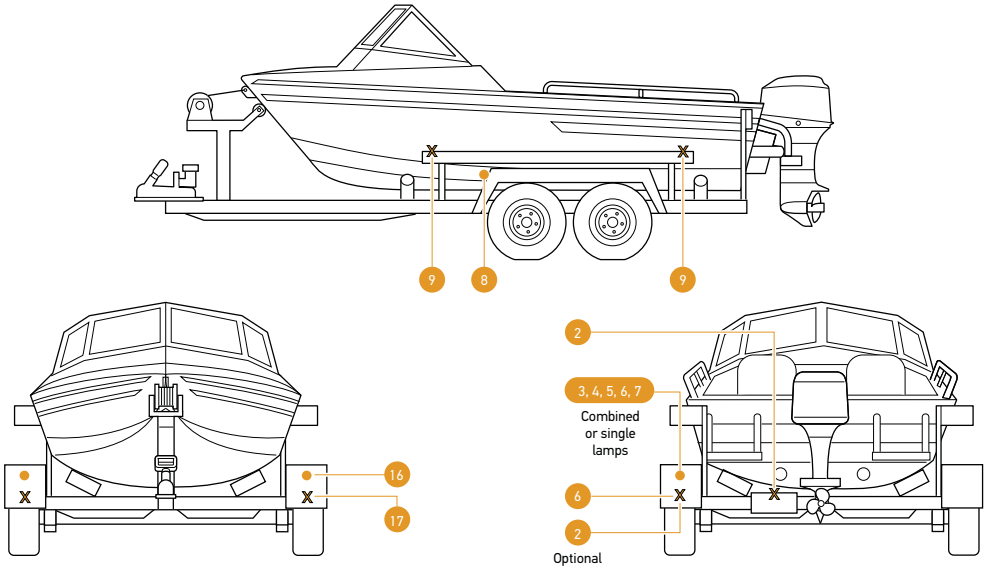
SMALL TRAILER



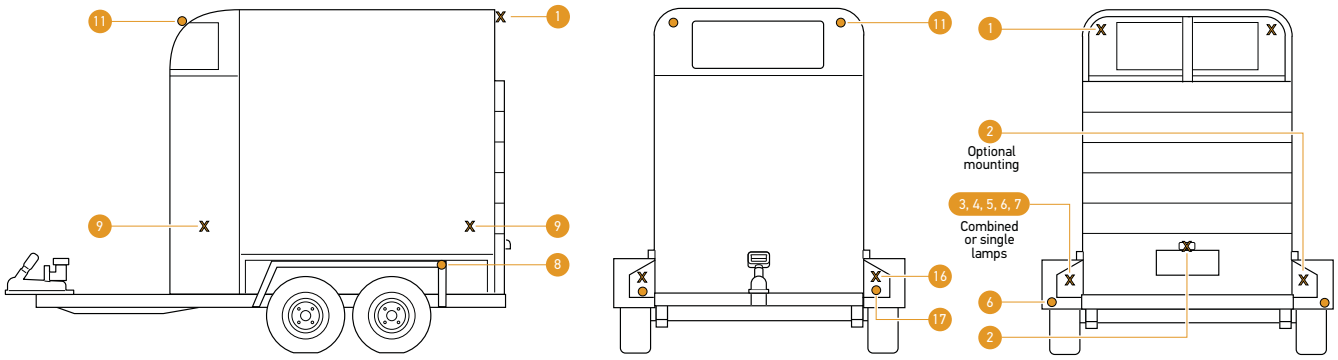
CARAVAN



BOAT TRAILER



HORSE FLOAT



HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1004	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	E24 0002 (0670)
HM1535DRL	980670-80								
1005	980680-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-12	E24 0001 (0680)
1005-24V	980680-50							980-703-24	
1006	980690-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1006*A	42763	980-703-47	0690
1007-24V	980690-40	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-53	0690
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854		
1008	980680-11	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-68	E24 0001 (0680)
1008-24V	980680-61							980-703-69	
1009	980880-00	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-04	0880
1009-24V	980880-10					DRL*1009-24V*A	44202		
1009V	980880-40	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-92	0880 B
1009V-24V	980880-50					1009V-24V*DRL*C	45965		
1013	980970-00	76/00	Daytime Running Lamp	LED	N/A LED	*DRL*1013*A	44776	958-780-44	0970
1013-24V	980970-50					*DRL*1013-24V*A	44783		
1027	003434-18	46/00	Headlamp	XD1260/55	H4	HL*1027*A	15311	911-352-79	17016
		49/00	Front Position Lamp	HL124	T4W	FP*1027*A	15317		
1028	007834-00	46/00	Headlamp (Low/Dipped Beam)	C1255	H1	HL*1028*A	32013	911-353-80	550
1029	008193-00	46/00	Headlamp (Low/Dipped Beam)	CA1255	H7	HL*1029*A	32008	911-353-81	917
1030	008191-00/02	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1030*A	32009	911-353-79	917
		49/00	Front Position Lamp (1030 only)	HL124	T4W	FP*1030*A	32014		
1031	008191-04	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1031*A	32010		
1041	003177-06	46/00	Headlamp	C1255	H1	HL*1041*A	15071	911-351-06	24504
1042	003177-30	46/00	Headlamp	XD1260/55	H4	HL*1042*A	15072	911-351-07	7197R20
1043	003427-04	46/00	Headlamp	XD1260/55	H4	HL*1043*A	15198	911-351-08	17009
		49/00	Front Position Lamp	HL124	T4W	FP*1043*A	15197		
1044	003177-51	46/00	Headlamp	XD1260/55	H4	HL*1044*A	15073	911-351-10	7197R20
		49/00	Front Position Lamp	HL124	T4W	FP*1044*A	15074		
1053	114155-00	46/00	Headlamp	C1255	H1	HL*1053*A	15075	911-351-14	14464R8
1054	114178-00	46/00	Headlamp	C1255	H1	HL*1054*A	15092	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*1054*A	15093		
1055 & 1055HD	002850-06 & 002850-21	46/00	Headlamp	XD1260/55	H4	HL*1055*A	15088	911-351-16	17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*1055*A	15089		
1056	002395-84	46/00	Headlamp	XD1260/55	H4	HL*1056*A	15094	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*1056*A	15095		
1058 & 1058HD	002395-13 (950519-00) & 002395-26	46/00	Headlamp	XD1260/55	H4	HL*1058*A	15096	911-351-18	53
		49/00	Front Position Lamp	HL124	T4W	FP*1058*A	15097		
1058LED	958307-01	46/00	Headlamp	LED	N/A LED	N/A ECE	A02 HCR 01 PL RL 00 E11 12.5 6080	958-315	53
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE			
1ML012488111	012.488-111	46/00	Low Beam Headlamp	LED	N/A LED	N/A ECE	E1 4090	HKG & ADR 13/00	E1 4090
1ML012488131	012.488-131	46/00	Low Beam Headlamp	LED	N/A LED	N/A ECE			
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE			
1F0011988-121	011.988-121	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E1 3831	HKG & ADR 13/00	E1 3831
1F0011988-131	011.988-131	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE			
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE			
1F0011988-171	011.988-171	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE			
		6/00 Cat1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE			

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1M0015050011	015.050-011	46/00	Low Beam Headlamp	LED	N/A LED	N/A ECE	E1 8993	HKG & ADR 13/00	E1 8993
1M0015050021	015.050-021		High Beam Headlamp	LED	N/A LED	N/A ECE			
1LL012758111	012.758-111	46/00	Headlamp	LED	N/A LED	N/A ECE	E1 4209	HKG & ADR 13/00	E1 4209
1LL015318041	015.318-041						E1 0020		E1 0020
1TL998570641	998.570-641	55/00	Low Beam Headlamp (Motorcycle)	LED	N/A LED	N/A ECE	E4 0237	HKG & ADR 19/00	E4 0237
1KL998570621	998.570-621	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E4 24910	HKG & ADR 13/00	E4 24910
1KL998570631	998.570-631	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E4 26353	HKG & ADR 13/00	E4 26353
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
1107	956329-00	50/00	Front Fog Lamp	YC1255	H3	FF*1107*A	15127	911-351-29	8361
1108	005750-04	50/00	Front Fog Lamp	YC1255	H3	FF*1108*A	15137	911-351-30	18213R19
1109	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*1109*A	15134	911-351-31	18216R19
1110	005860-00	50/00	Front Fog Lamp	YC1255	H3	FF1110*A	15218	911-351-32	18227
1111	006300-07	50/00	Front Fog Lamp	YC1255	H3	FF*1111*A	15255	911-351-33	18231
1122	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
1123	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
1307	956329-01	46/00	High Beam Headlamp	YC1255	H3	HL*1307*A	15121	911-351-42	24556R8
1308	005750-30	46/00	High Beam Headlamp	YC1255	H3	HL*1308*A	15139	911-351-43	0444404R8
1309	005700-11	46/00	High Beam Headlamp	YC1255	H3	HL*1309*A	15132	911-351-44	0444410R8
1310	005860-03	46/00	High Beam Headlamp	YC1255	H3	HL*1310*A	15220	911-351-45	044442
1311	006300-12	46/00	High Beam Headlamp	YC1255	H3	HL*1311*A	15254	911-351-46	0444444
1322	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
1323	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
1324	001951-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 12.5 E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R112
1325	001952-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 17.5 E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R112
1326	001953-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 12.5 E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R112
1358	958307-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E11 30 01 7501	958-315-65	E11 30 01 7501
1363	004700-15	46/00	High Beam Headlamp	CD1255	H2	HL*1363*A	15141	911-351-51	34518R8
1376BLUE	007560-13	46/00	High Beam Headlamp	C1255	H1	HL*1376*B	32428	911-353-85	44484
		49/00	Front Position Lamp	W125	W5W	FP*1376*A	32432		
1376BLUEHB	007560-32	46/00	High Beam Headlamp	C1255	H1	HL*1376HB*A	36324	911-355-08	1928
		49/00	Front Position Lamp	W125	W5W	FP*1376HB*A	36325		
1378	009094-02	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	911-353-94	00 1901
1378CHROME	009094-03								
1382	009094-141	77/00	High Beam Headlamp	XN4001	D1S	HL*1382*B	36044	911-355-07	02 2087
1384	009094-311	77/00	High Beam Headlamp	XN4001	D1S	N/A ECE	E1 002087	HKG 460 818-21 & Refer ADR 13/00	E1 002087
1393	010119-01	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	HKG 460 719-11 & Refer ADR 13/00	00 1901
1393CHROME	010119-11					N/A ECE	HR 001901 E1 37.5		
1394LED	011815-00	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 45 E1 3738	HKG 460 818-29 & Refer ADR 13/00	E1 3738
1394LEDHD	011815-03								
1395	958 040-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R-010008	460 881-50	E24 20 0008
1395HD	958 040-03							460 881-51	
1396	958 040-06	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R-010009	460 881-50	E24 30 0009
1396HD	958 040-04							460 881-51	

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1397HD	958 040-12	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112-01 0012	460 881-51	E24 25 0012
1398HD	958 040-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112-01 0013	460 881-51	E24 37.5 0013
1F8 016 560-001	016 560-00	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 25 5919
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
1F8 016 560-011	016 560-01	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5920	HKG	E24 50 5920
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919		
1F8 016 560-021	016 560-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 25 5919
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
1F8 016 560-031	016 560-03	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5920	HKG	E24 50 5920
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919		
1F8 016 797-111	016 797-11	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5919	HKG	E24 25 5919
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
1F8 016 797-011	016 797-01	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 5920	HKG	E24 50 5920
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5919		
1FA 996 197-151	996 197-15	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E1 4517	HKG	E1 4517
1FA 996 197-181	997 197-18								
1403	003030-17	1/00	Reversing Lamp	R1221	P21W	RL*1403*A	30830	911-353-73	8726
1405	003014-09	1/00	Reversing Lamp	R1221	P21W	RL*1405*A	15131	911-351-53	8703R23
1408	997506-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1408*A	37918	911-355-11	23005
1410	005860-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1410*A	37919	911-355-12	2186
1430-H	959070-50	1/00	Reversing Lamp	LED	N/A LED	RL*1430-H*A	36417	959-150-10	9060
1430-V	959070-55					RL*1430-V*A	36418		
1433	959820-00	1/00	Reversing Lamp	LED	N/A LED	RL*1433*A	33190	959-149-69	9020
1446-H	959041-30	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
1446-V	959041-40					RL*1446-V*A	36243		
1447L	959041-37	1/00	Reversing Lamp	LED	N/A LED	1447*RV*C	45662	958-780-84	9040
1447R	959041-36								
1461	980762-01	1/00	Reversing Lamp	LED	N/A LED	RL*1461*A	45442	958-780-72	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
1465	959930-00	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-04	9930
1467	959930-11	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-18	9930
1468	980889-00	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	0880D
1468-24V	980889-20	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	
1468V	980889-10	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	0880E
1468V-24V	980889-30	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	
1490	959010-50	1/00	Reversing Lamp	LED	N/A LED	RL*1490*A	36253	959-150-16	9010
1547LED-RE	996376-09	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 3902	HFA 460 845-18 / 04.14 & Refer ADR 13/00	003902
1551LED-RE	996188-12	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 3249	HFA 460 845-15 / 02.12 & Refer ADR 13/00	003249
1563LED-RE	996284-50	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 4576	HFA 460 845-20 / 11.16 & Refer ADR 13/00	004576
2026 & HM2026 & HM2026D	959660-30	45/01	Cab Marker Lamp	LED	N/A LED	9560-CRN-06A	50133	959-149-17 / 05.19	9560
		6/00:Cat 5	Supp. Side Direction Indicator Lamp			9560-CRN-45A	50134		
						95602CRN-45A	50135		
						95602CRN-06A	50136		
2027	980660-10	45/01	Cab Marker Lamp	LED	N/A LED	CM*2027*A	42856	980-703-13	6600
2027P		6/00:Cat 5	Supp. Side Direction Indicator Lamp			SDI*2027*A	42857		
2029	900139-01	45/01	Side Marker Lamp	L125	C5W	SM*2029*A	15143	911-351-69	910049

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2030	900139-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	L125	C5W	FL*2030*A	15146	911-351-70	910049
2031	959700-00	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	SDI*2031*A	30768	959-149-55	9700
2033	959700-20	45/01	Side Marker Lamp	LED	N/A LED	SM*2033*A	31432	959-149-58	9700
2037	900139-04	45/01	Side Marker Lamp	L125	C5W	SM*2037*A	15144	911-351-72	910049
2041LED-H	2041LED-H	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
2043	910663-09	1/00	Reversing Lamp	R1221	P21W	RL*2043*A	15111	911-351-75	R.D.68158
2046 & 2046PC	958607-02	1/00	Reversing Lamp	R1221	P21W	RL*2046*A	15329	911-352-89	HNZ01
		49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*2046*A	15352		
2047	963639-00	74/00 SM1	Side Marker Lamp : SM1	LED	N/A LED	N/A ECE	SM1 00 E24V5881	Refer ADR 13/00	SM1 00 E24 5881
		47/00	Retro Reflector (Amber Side)	N/A	N/A				
2048	963639-01	74/00 : SM1	Side Marker Lamp : SM1	LED	N/A LED	N/A ECE	SM1 00 E24V5881	Refer ADR 13/00	SM1 00 E24 5881
		47/00	Retro Reflector (Amber Side)	N/A	N/A				
2051 & HM2051 & HM2051D	959570-30	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2051*A	25032	959-149-19	9560
2051GMD	959570-10	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2051X*A	40676	959-150-79	9560
2053 & 2053PC & HM2053PC & HM2053PCD & 2053GMD	959660-50	45/01	Side Marker Lamp	LED	N/A LED	SM*2053*A	24743	959-149-16	9560
2054 & HM2054 & HM2054D	959570-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0051	959-149-25	A 02 E24 0051
2054GMD	959570-50	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2054X*A	40677	959-150-80	9560
2055	959590-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0054	959-149-26	A 02 E24 0054
2056	959590-30	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2056*A	27380	959-149-38	9590
2057	959650-00	45/01	Cab Marker Lamp	LED	N/A LED	CM*2057*A	27432	959-149-42	9650
2058	980660-00	45/01	Side Marker Lamp	LED	N/A LED	SM*2058*A	41597	980-703-13	6600
2058P	980660-02								
2059	980855-01	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2059*A	45233	958-780-67	0855
2059S	980855-02								
2060	980855-20	49/00	Front End Outline Lamp	LED	N/A LED	FEO*2060*A	45630	958-780-70	0855
2060S	980855-21								
2061	980660-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	2061*FP*C	46857	958-780-95	6600
2061P	980660-21								
2062	980660-22	49/00	Front End Outline Lamp	LED	N/A LED	2062*FEOM*C	46858	958-780-96	6600
2062P	980660-30								
2063	900741-25	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2063*A	15282	911-351-76	10833
2064	003014-07	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2064*A	15177	911-351-77	11793R7
2066	006679-00	49/00	Front Position Lamp or Front End Outline Lamp	G1210	R10W	FP*2066*A	15253	911-351-79	0121691
2071	980990-40	49/00	Front End Outline Lamp	LED	N/A LED	2071*FEOM*C	45943	958-780-90	0990
2073	980990-00	45/01	Side Marker Lamp	LED	N/A LED	2073*SML*C	45809	958-780-87	0990
2074	980990-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	2074*FEOM*C	45944	958-780-89	0990
2076	980990-10	45/01	Cab Marker Lamp	LED	N/A LED	2076*ECM*C	45810	958-780-88	0990
		6/00:Cat 5	Supp. Side Direction Indicator Lamp			2076*SDI*C	45811		
2083	980868-04	45/01	Side Marker Lamp	LED	N/A LED	2083*SM*C	47116	958-315-32	0868
2083S	980868-06								
2086	980868-30	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	2086-CRN-06A	49890	460-965-06	8983
2086S	980868-32								
2101	002939-17	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2101*A	29439	911-353-58	32710

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2103-12V	008260-01	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2103*A	32646	911-353-90	01989
2103-24V	008260-00								
2105	959932-20	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-24	9930
2105CLR	959932-21	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148		
2106-CS	959932-13	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851	959-150-92	1 01 E24 5851
		49/00	Front Position Lamp				A 02 E24 5851		A 02 E24 5851
2107	959011-10	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2107*A	41601	980-703-19	9010
2107CLR	959011-11					DI*2107C*A	41609		
2108-GMD	980691-11	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-70	0690
2108-GMD24V	980690-00	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-29	0690
		76/00	Daytime Running Lamp						
2109	980888-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109*FDI*C	46349	958-315-01	0880
2109-24V	980888-40					210924H*DI*C	46348		
2109V	980888-50	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109V*FDI*C	46347	958-315-20	0880B
2109V-24V	980888-60					210924V*DI*C	46346		
2110-12V	980819-30	6/00:Cat 5	Front Direction Indicator Lamp	LED	N/A LED	12V-CRN-06A	49241	958-315-80	0880C
		49/00	Front Position Lamp			12V-CRN-49C	49263		
2110-24V	980819-40	6/00:Cat 5	Front Direction Indicator Lamp	LED	N/A LED	12V-CRN-06A	49252	958-315-80	0880C
		49/00	Front Position Lamp			12V-CRN-49C	49264		
2126	905626-04	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2126*A	15271	911-351-98	905628
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	FL*2126*B	15300		
2127	900763-29	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2127*A	15272	911-351-99	R.D.10833
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	FL*2127*B	15301		
2128	900763-30	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2128*A	15273	911-352-00	R.D.10833
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	SDI*2128*A	15306		
2128LED	959932-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-25	9930
2129	900763-31	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	FD1221	P21W (DC)	DI*2129*A	15304	911-352-76	R.D.10833
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	GD125	R5W (DC)	DI*2129*B	15305		
2130	959011-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2130*A	30649	959-149-50	9010
2133	959822-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133*A	33191	959-149-71	9020
2133CS	959822-60								
2133-24V	959021-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133-24V*A	30442	959-149-53	9020
2135 & 2135PC	900739-10	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2135*A	15270	911-352-02	10833
		49/00	Front End Outline Lamp	L125	C5W	FEO*2135*A	25578		
2135LED	959932-31	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-26	9930
2136	900741-21	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2136*A	15211	911-352-03	10833
		49/00	Front End Outline Lamp	L125	C5W	FEO*2136*A	25579		
2138	959031-00	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	958-780-39	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
2142	905141-02	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2142*C	15318	911-352-06	53174
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	G125	R5W	FL*2142*B	15203		
		6/00:Cat6	Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2142*D	30062		
2143	910663-08	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2143*A	15110	911-352-07	R.D.68158
		49/00	Front End Outline Lamp	G125	R5W	FEO*2143*A	25523		
2144LED-H	2144LED-H	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2145 & 2145PC	958607-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2145*A	15330	911-352-90	HNZ01
		49/00	Front End Outline Lamp	G125	R5W	FEO*2145*A	25577		
2146-H	959041-10	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040
2146-HCS	959041-51					DI*2146-H24*A	34498	959-150-57	
2146-H24	959041-50							959-149-88	
2146-V	959041-20					DI*2146-V*A	26180	959-149-30	
2146-VCS	959041-71					DI*2146-VCS*A	40650	959-150-57	
2146-V24	959041-70					DI*2146-V24*A	36718	959-149-88	
2147	003014-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2147*A	15168	911-352-11	32619R6
		49/00	Front End Outline Lamp	G125	R5W	FEO*2147*A	25759		
2148	003014-11	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2148*A	15170	911-352-12	32661R6
		49/00	Front End Outline Lamp	G125	R5W	FEO*2148*A	25761		
2150	005603-00	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	R1221	P21W	FL*2150*A	15172	911-352-14	6R0142748
		49/00	Front End Outline Lamp	G125	R5W	FEO*2150*A	25763		
2151	959070-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44206	958-780-37	9060
						24V Horiz	44192		
						12V Vert	44193		
						24V Vert	44194		
2151-H	959070-35	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	FL*2151-H*A	36420	959-150-11	2a 01 E24 5850
2151-HCS	980607-00								
2151-V	959070-25					FL*2151-V*A	36421		9060
2151-VCS	980607-50					DI*2151-VCS*A	2a 01 E24 5850	959-150-56	2a 01 E24 5850
2153	006692-01	6/00:Cat 6	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2153*B	30495	911-353-69	52621
2154	006692-02	6/00:Cat 6	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2154*B	30497	911-353-70	52621
2155	008355-00	6/00:Cat 6	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2155*A	30498	911-353-71	1059
2155CLR	008355-01	6/00:Cat 6	Supp. Side Direction Indicator Lamp	RY1221	PY21W	SDI*2155CLR*A	E1 011848	911-353-71	1848
2156	959075-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156*A	26483	959-149-28	9074
2156-24V	959075-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156-24V*A	26104	959-149-29	9074
2158	004119-02	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2158*A	31781	911-353-78	536
		6/00:Cat 5	Supp. Side Direction Indicator Lamp	R1221	P21W	SDI*2158*A	31802		
		49/00	Front Position Lamp	W125	W5W	FP*2158*A	31807		
2161	980761-01	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443	958-780-73	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2161-CS	980761-02	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443	958-780-74	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2165	959932-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-*B	36056	959-150-06	9930
2167	959932-71	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-*B	36056	959-150-22	9930
2168	980888-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168*A	46435	958-315-02	0880C
2168-24V	980888-20	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168-24V*A	46434		
2BM 011 788-031	011788-03	6/00:Cat 6	Supp. Side Direction Indicator Lamp	LED	N/A LED	N/A ECE	E11 6R-017506	HKG 460 903-61/11.13 Refer ADR 13/00	01 6 E11 7506
2BM 011 788-021	011788-02								
2305	345600-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24 5881
		47/00	Retro Reflector (Red/Rear)	N/A	N/A				
2306	345600-31	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24 5881
		47/00	Retro Reflector (Red/Rear)	N/A	N/A				
2307 & HM2307 & HM2307D	959560-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307*A	25009	959-149-18	02 7574
2307GMD	959560-10	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307X*A	40680	959-150-81	9560

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2308	959 610-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	E4 7R 02 7597	959-149-20	E4 7R 02 7597
2309	959700-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2309*A	31431	959-149-59	9700
2310	980855-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2310*A	45631	958-780-71	0855
2310S	980855-31								
2311	980660-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2311*RP*C	46859	958-780-71	6600
2311P	980660-42								
2312	980990-60	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2312*REOM*C	45945	958-780-91	0990
2314 & 2314PC	900739-11	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2314*A	15316	911-352-83	10833
2315	900741-22					RR*2315*A	15310	911-352-84	
2317	959030-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948	959-149-05	9030
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
		49/00	Stop : Horizontal	LED	N/A LED	ST*2317H*A	42579		
		49/00	Rear Position : Vertical	LED	N/A LED	RP*2317V*A	42578		
		49/00	Stop : Vertical	LED	N/A LED	ST*2317V*A	42582		
2318	980887-00	49/00	Stop Lamp	LED	N/A LED	SL*2318*A	46360	958-780-99	0880C
			Rear Position Lamp			RP*2318*A	46351		
2318-24V	980887-20	49/00	Stop Lamp	LED	N/A LED	SL*2318-24V*A	46361	958-780-99	0880C
			Rear Position Lamp			RP*2318-24V*A	46353		
2319	910664-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2319*A	15149	911-352-16	013051
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2319*A	15151		
2320LED-H	2320LED-H	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9040
			Rear Position Lamp			RP*2332-H24*A	34502		
2321 & 2321PC	958606-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2321*A	15327	911-352-91	HNZ01
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2321*A	15328		
2325	003014-05	49/00	Rear Position Lamp or Rear End Outline Lamp	L125	C5W	RR*2325*A	15252	911-352-21	0131418
2330	959060-00	49/00	Rear Position: Horizontal	LED	N/A LED	RP*2330H1*A	42558	959-149-00	9060
			Stop: Horizontal			ST*2330H1*A	42650	959-149-00	
			Rear Position: Vertical			RP*2330V1*A	42559		
			Stop: Vertical			ST*2330V1*A	42561		
2330-H	959-060-35	49/00	Stop Lamp	LED	N/A LED	SL*2330-H*A	36428	959-150-12	9060
			Rear Position Lamp			RP*2330-H*A	36426		
2330-V	959-060-25	49/00	Stop Lamp	LED	N/A LED	SL*2330-V*A	36429		
			Rear Position Lamp			RP*2330-V*A	36427		
2332-H24	959040-5x	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9060
			Rear Position Lamp			RP*2332-H24*A	34502		
2332-V24	959040-70	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	9060
			Rear Position Lamp			RP*2332-V24*A	36721		
2334	959074-50	49/00	Stop Lamp	LED	N/A LED	SL*2334*A	26486	959-149-27	9074
			Rear Position Lamp			RP*2334*A	26484		
2334-24V	959074-00	49/00	Stop Lamp	LED	N/A LED	SL*2334-24V*A	26152	959-149-27	9074
			Rear Position Lamp			RP*2334-24V*A	26151		
2361	980760-01	49/00	Stop Lamp	LED	N/A LED	ST*2361*A	45634	958-780-75	0760
			Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2365	959931-00	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-05	9930
			Rear Position Lamp			RP*2365*B	36078		
2366	959821-00	49/00	Stop Lamp	LED	N/A LED	SL*2366*A	33196	959-149-70	9020
			Rear Position Lamp			RP*2366*A	33198		
2366-24V	959020-00	49/00	Stop Lamp	LED	N/A LED	SL*2366-24V*A	30445	959-149-52	9020
			Rear Position Lamp			RP*2366-24V*A	30443		

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2367	959931-11	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-20	9930
			Rear Position Lamp			RP*2365*B	36078		
2375-12V	980819-00	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	E24 6R-01 5902	958-315-70	0880H
2375-24V	980819-22	49/00	Stop Lamp				E24 7R-01 5902		
			Rear Position Lamp						
2377	980710-01	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	2377*RDI*C	45253	958-780-66	0710
		49/00	Stop Lamp			2377*ST*C	45256		
			Rear Position Lamp			2377*RP*C	45254		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2377*RR*C	45255		
2378	980613-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2378*RDI*C	45258	958-780-63	0710
2378-CS	980613-20	49/00	Stop Lamp	LED	N/A LED	2378*ST*C	45260	958-780-64	
2378DT	980602-00		Rear Position Lamp			2378*RP*C	45259	958-780-65	
2378DTCS	980602-20		Rear Position Lamp			2378*07*RP*C	45257	958-780-68	
2379 & HM2379 & HM2379D	959050-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2379*A	30916	959-149-47	9050
		49/00	Stop Lamp	LED	N/A LED	SL*2379*A	30919		
2379-CS	959050-40	49/00	Rear Position Lamp	LED	N/A LED	RP*2379*A	30917	959-150-55	9050
2380	980603-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2380*A	43630	958-780-05	9050
HM2380	980603-51	49/00	Stop Lamp			SL*2380*A	43632		
HM2380D	980603-52		Rear Position Lamp			RP*2380*A	43631		
2380GMD	980603-55	1/00	Reversing Lamp			RL*2380*A	43628	958-780-35	
2380DT	980615-01								
2380DTGMD	980615-05								
HM2380DT	980615-02								
2VP 015 074-001	015074-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	12V-DURA-47A	50198	460-965-10	0710
2VP 015 074-101	015074-10	47/00	Retro Reflector (Red/Rear)	N/A	N/A	12V-DURA-47B	50198		
2VP 015 075-001	015075-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V-DURA-06A	50201		
2VP 015 075-101	015075-10	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	24V-DURA-06A	50204		
		49/00	Stop/Rear Position Lamp	LED	N/A LED	12V-DURA-49A	50200		
		49/00	Stop/Rear Position Lamp	LED	N/A LED	24V-DURA-49A	50203		
		1/00	Reversing Lamp	LED	N/A LED	12V-DURA-01A	50199		
		1/00	Reversing Lamp	LED	N/A LED	24V-DURA-01A	50202		
2383-24VCS	980613-51	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	E24 6R-015894	958-315-28	0710
2383-DT24VCS	980602-51	49/00	Stop Lamp				E24 7R-025894	958-315-27	
		49/00	Rear Position Lamp						
		1/00	Reversing Lamp				E24 23R-005894		
2384	003014-14	48/00	Licence Plate Lamp	L125	C5W	LP*2384*A	15175	911-352-30	231453
		49/00	Rear Position / Stop Lamp	L125/R1221	C5W/ P21W	RR*2384*A	15167		
2390	959010-00	49/00	Stop Lamp	LED	N/A LED	SL*2390*A	30651	959-149-51	9010
			Rear Position Lamp			RP*2390*A	30650		
2391	980980-00	1/00	Reversing Lamp	LED	N/A LED	2391*RV*C	45251	958-780-58	0980
		6/00:Cat 2a	Rear Direction Indicator Lamp			2391*RDI*C	45258		
		49/00	Stop Lamp			2391*ST*C	45262		
			Rear Position Lamp			2391*RP*C	45261		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2391*RR*C	45250		
2392L	980980-01	1/00	Reversing Lamp	LED	N/A LED	2392*RV*C	45267	958-780-59	0980
2392R	980980-02	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2392*RDI*C	45264		
		49/00	Stop Lamp			2392*STC	45268		
			Rear Position Lamp			2392*RP*C	45265		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2392*RR*C	45266		
		48/00	Licence Plate Lamp	N/A	N/A	2392*LP*C	45263		

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2394	980720-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2394*B	42034	980-703-20	0720
		49/00	Stop Lamp			SL*2394*A	42037		
		49/00	Rear Position Lamp			RP*2394*A	42036		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
2395	980720-40	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2395*B	42030	980 703-21	0720
		49/00	Stop Lamp			SL*2395*C	42179		
			Rear Position Lamp			RP*2395*C	42178		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
		48/00	Licence Plate Lamp	LED	N/A LED	LP*2395*C	42175		
2399	959010-20	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2399*A	37114	959-150-30	9010
		49/00	Stop Lamp			SL*2399*A	37116		
			Rear Position Lamp			RP*2399*A	37115		
2414	604011	1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-56	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
2415	604012	1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-57	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
2416LED	2416LED	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-39	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
		49/00	Stop : Horizontal			ST*2317H*A	42579		
		49/00	Rear Position : Vertical			RP*2317V*A	42578		
		49/00	Stop : Vertical			ST*2317V*A	42582		
2419	003184-03	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2419*A	15160	911-352-42	7R0153253
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2419*A	15161		
2420	003184-10	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2420*A	15223	911-352-43	7R0153253
		48/00	Licence Plate Lamp	G1210	R10W	LP*2420*A	15159		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2420*A	15222		
2422	958562-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2422*A	15320	911-352-81	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2422*A	15324		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2422*A	15323		
2422LED	2422LED	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-38	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
			Stop : Horizontal			ST*2317H*A	42579		
			Rear Position : Vertical			RP*2317V*A	42578		
			Stop : Vertical			ST*2317V*A	42582		
2423	958616-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2423*A	15338	911-352-92	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2423*A	15339		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2423*A	15340		

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2424	958616-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2424*A	15342	911-352-93	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2424*A	15343		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2424*A	15344		
		1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341		
2424LED-H	2424LED-H	1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341	911-352-93	HNZ01
		6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2426-H	959-040-801	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2426-V	959-040-901	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-V24*A	36718	959-149-88	9040
		49/00	Stop Lamp			SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2427-H	959-040-811	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2427-V	959-040-911	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-V24*A	36718	959-149-88	9040
		49/00	Stop Lamp			SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2428-H	959-041-811	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2428-V	959-041-911	1/00	Reversing Lamp	LED	N/A LED	RL*1446-V*A	36243	959-149-95	9040
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	
		49/00	Stop Lamp			SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2429	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A/LED	DI*2161*A	45443	958-780-73/74 958-780-75	0760
2429-CS	980761-80	49/00	Stop Lamp			ST*2361*A	45634		
			Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2430	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A/LED	DI*2161*A	45443	958-780-73/74	0760
2430-CS	980761-80	49/00	Stop Lamp			ST*2361*A	45634	958-780-75	
2430DTCS	980761-94	49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2431	980760-82	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A/LED	DI*2161*A	45443	958-780-73/74	0760
2431-CS	980761-82	49/00	Stop Lamp			ST*2361*A	45634	958-780-75	
2431DTCS	980761-95	49/00	Rear Position Lamp			RP*2361*A	45632		
		1/00	Reversing Lamp			RL*1461*A	45442	958-780-72	
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2553	951068-02	48/00	Licence Plate Lamp	G1210	R10W	LP*2553*A	15150	911-352-47	E1 22819
2555	001389-10	48/00	Licence Plate Lamp	L125	C5W	LP*2555*A	15156	911-352-49	12815R4
2557	900967-03	48/00	Licence Plate Lamp	HL124	T4W (2 Pieces)	LP*2557*A	15207	911-352-50	4151
2559	959640-00	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559S*A	42545	959-149-35	9590
2559-1	959640-30	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559H*A	41602	980-703-00	9640
2560	980869-00	48/00	Licence Plate Lamp	LED	N/A LED	2560*LP*C	46799	958-315-24	0855
2902	002016-11	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2902*A	15180	911-352-51	0231290
2915	002014-23	47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A/ECE	E243R020030	911-352/3-55/50	020030
2916	002014-25	47/00	Retro Reflector (Amber/Side)	N/A	N/A	N/A/ECE	E243R020030	911-352/3-56/48	020030

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2917	002014-24	47/00	Retro Reflector (White/Front)	N/A	N/A	N/A/ECE	E243R020030	911-352/3-57/49	020030
2919	004412-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2919*A	15233	911-352/3-58/48	02338
2920	004412-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2920*A	15294	911-352/3-70/50	02338
2921	004412-01	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2921*A	15293	911-352/3-71/49	02338
2922	003326-04	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2922*A	15237	911-352/3-59/48	0292031
2922-2/200	003326-01	47/00	Retro Reflector (Amber/Side)	N/A	N/A	N/A/ECE	E1 02 21395 R 3	911-352/3-59/48	0292031
2923	003326-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2923*A	15296	911-352/3-72/50	0292031
2923-2BULK	003326-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2924	003326-05	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2924*A	15295	911-352/3-73/49	0292031
2924-2BULK	003326-02	47/00	Retro Reflector (White/Front)	N/A	N/A	N/A/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2925	004713-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2925*A	15234	911-352/3-60/48	02353
2926	342007-10	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2926*A	15298	911-352/3-74/50	02353
2927	342007-20	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2927*A	15297	911-352/3-75/49	02353
2934-H	980565-10	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-H*A	38243	959-150-34	5651
2934-V	980565-50	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-V*A	38244	959-150-34	5655
5237	959190-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5237*B	15350	911-352-64A	523
5238	959191-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5238*B	15349	911-352-65A	523
5239	959192-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5239*B	15351	911-352-66A	523
5243	959071-53	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	8-5243-08	23071	959-089-01	27547
5245	980887-30	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*12*ST*C	45934	958-780-83	0880A
5245-24V	980887-40	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*24*ST*C	45935		
5604	002395-84	46/00	Headlamp	XD1260/55	H4	HL*5604*A	15098	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*5604*A	15099		
5605	114155-00	46/00	Headlamp	C1255	H1	HL*5605*A	15100	911-351-14	14464R8
5606	114178-00	46/00	Headlamp	C1255	H1	HL*5606*A	15101	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*5606*A	15102		

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	HELLA Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
5607	009599-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5607*B	39474	911-355-15	2372
5608	009496-81	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5608*B	39475	911-355-16	2344
5610	010043-08	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E1 2578 00RL 02A	HKG 460 895-18 & ADR 13/00	E1 2578 00RL 02A
5611	002850-06	46/00	Headlamp	XD1260/55	H4	HL*5611*A	15086	911-351-16	17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*5611*A	15087		
5613	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
5614	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
5615	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
5616	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
5617	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	E24 0002 (0670)
5618	980680-80	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-12	E24 0001 (0680)
5618-24V	980680-85							980-703-24	
5619	980880-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-26	0880
5619-24V	980880-85					DRL*1009-24V*A	44202		
5619V	980880-90	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-98	0880 B
5619V-24V	980880-95					1009V-24V*DRL*C	45965		
5630	980860-84	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005863	958-780-18	E24 5863
5630-24V	980860-87								
5631	980850-84	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005862	958-780-19	E24 5862
5631-24V	980850-87								
5632	956330-00	50/00	Front Fog Lamp	YC1255	H3	FF*5632*A	15128	911-351-29	8361
5636	980970-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1013*A	44776	958-780-52	0970
5636-24V	980970-85					DRL*1013-24V*A	44783		
5641	005750-04	50/00	Front Fog Lamp	YC1255	H3	FF*5641*A	15138	911-351-30	18213R19
5643	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*5643*A	15135	911-351-31	18216R19
5645	005860-00	50/00	Front Fog Lamp	YC1255	H3	FF*5645*A	15219	911-351-32	18227
5647	008090-00	50/00	Front Fog Lamp	YC1255	H3	FF*1115*A	28414	911-353-38	02 B E1 877
9.1358.01	002659-07	46/00	High Beam Headlamp	YC1255	H3	HL*1358*A	15112	911-351-50	14529

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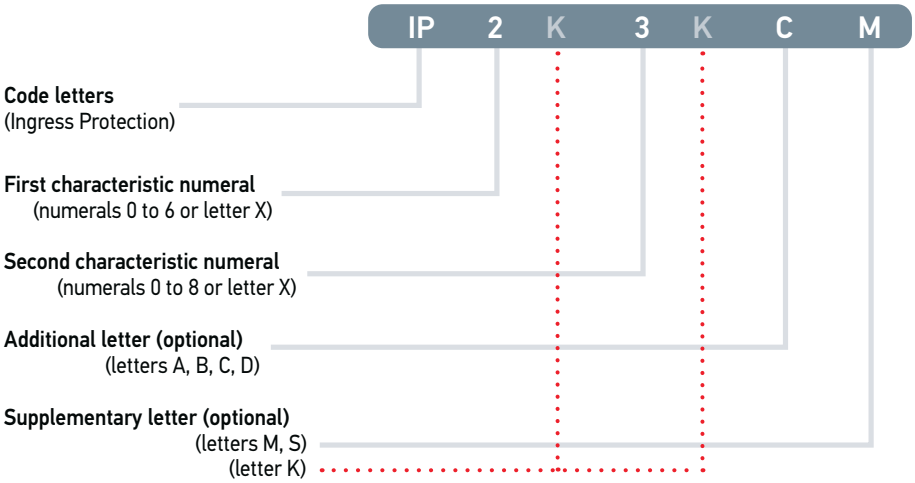
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Ingress Protection (IP) Rating

Construction and meaning of the IP Rating



Ingress Protection: Overview of the Elements of the IP Rating

Element	Numeral / Letter	Protection of electrical equipment	Protection of persons
First characteristic numeral / supplementary letter		**Protection against the ingress of solid foreign objects (including dust):**	**Protection against access to hazardous parts (unless described by extra letters):**
	0	Not protected	Not protected
	1	With size ≥ 50mm	With back of hand
	2	With size ≥ 12.5mm	With finger
	3	With size ≥ 2.5mm	With tool
	4	With size ≥ 1mm	With wire
	5K	Dust-protected	With wire
	6K	Dust-tight	With wire
Second characteristic numeral / supplementary letter		**Protection against the ingress of water:**	
	0	Not protected	
	1	Vertical dripping	
	2	Dripping (inclined 15°)	
	3	Spraying	
	4	Splashing	
	4K	Same with increased pressure	
	5	Jetting	
	6	Powerful jetting	
	6K	Same at increased pressure	
	7	Temporary immersion	
	8	Continuous immersion	
	9K	High-pressure/steam jet cleaning	
Additional letter (optional)		**Meaning for the protection of electrical equipment**	**Protection against access to hazardous parts (unless described by first characteristic numeral):**
	A		With back of hand
	B		With finger
	C		With tool
	D		With wire
Supplementary letter (optional)	**M**	Movement of moving parts during water test	
	S	Standstill of moving parts during water test	
	K	Specifically for the electrical equipment in road vehicles	

Warranty Information

STATEMENT OF WARRANTY

HELLA Australia Pty Ltd warrants all products from the date of purchase to an end-user for the first time and covers defects in materials and/or workmanship only, provided that the product is installed in accordance with our mounting instructions and by a qualified professional.

The benefits given by our warranty are in addition to other rights and remedies of consumers under law in relation to the products of which our warranty relates; and

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

WARRANTY PERIODS

Please refer to the general terms and conditions on our website www.hella.com.au for up to date information on specific warranty periods and conditions that may apply.

LIMITATION OF LIABILITY

HELLA Australia Pty Ltd liability is limited to repair, replace or settle by credit note at the discretion of HELLA Australia Pty Ltd.

The goods are supplied strictly on the terms and subject to the condition that the buyer has satisfied itself of their suitability for its intended purpose.

Information supplied and printed in catalogues, specifications or other details on the product shall not constitute guarantees for condition or durability.

This warranty does not cover:

- Any labour costs incurred in diagnosis, troubleshooting, removal or reinstallation of the product and failures related to installation nor does it cover any consequential damage, indirect or special loss (whether for loss of profit or otherwise) and damage or injury of any kind.
- Any expenses associated with the handling of claims.
- Claims that are attributable to the non-compliance of the vehicle manufacturer's production specifications, maintenance and or service policies.
- Claims as a result of any modifications and alterations to the product.
- Claims as a result of non-compliance to the assembly, service and operating instructions and/or any unfit or improper use, and/or wrong or negligent treatment, and/or normal wear and tear, contamination, results from accidents, insufficient or excessive electrical supply, subject to undue environmental conditions, accident or improper application.
- Railway applications.

CLAIMS SUBMISSION

When a HELLA product is suspected to be defective, the end-user must stop using the product and contact the original place of purchase or HELLA Australia Pty Ltd (contact details below) and provide the proof of purchase and a description of the defect. The end-user shall also promptly provide further information that may be requested with respect to the claim. The credits officer will register the claim, organise pickup of the goods and a copy of the claim will be sent to the customer, this must be attached to the goods when returned to HELLA Australia Pty Ltd head office for assessment.

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GENERAL DISCLAIMER

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