

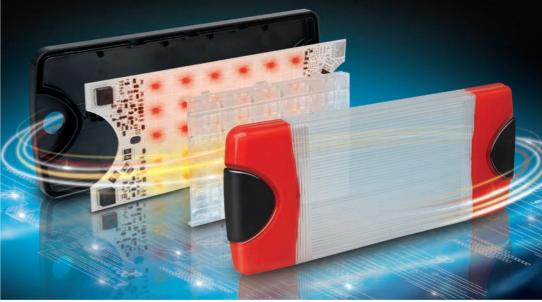
HELLA NEW ZEALAND CATALOGUE 2014-2016











Road Transport Lighting, Safety Lighting and Accessories

Expertly Designed and Precision Manufactured

Welcome to HELLA New Zealand's 2014 - 2016 Catalogue

Our 2014 - 2016 catalogue offers a comprehensive range of innovative road transport lighting, safety lighting and accessories for the transport sector.

Since the launch of our first LED automotive signal lamps in 1990, HELLA design and commitment to excellence continues to set new standards. HELLA's innovative solutions have become the benchmark for the road transport industry with lamps to suit the most demanding environmental conditions.

When you select a HELLA LED based product you know that functional safety, a perfect fit and long term product durability are guaranteed. You have our promise that as a local designer and developer, manufacturer and service provider we will stand behind our products.

HELLA-New Zealand Limited

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HELLA Fit and Forget LED Products

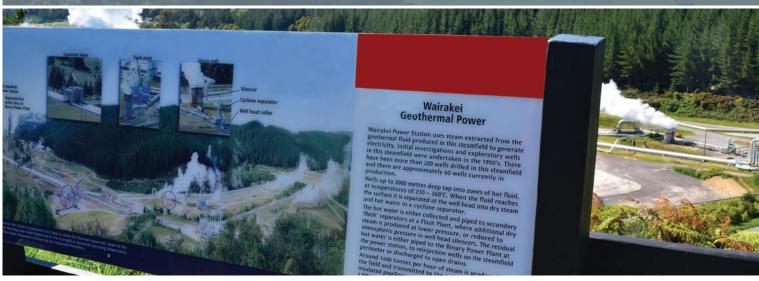
Where Environmental Choice meets Economic Sense

In a world where the development of renewable energy sources and the conservation of precious resources is given prominence by scientists and decision makers, energy efficient LED lighting has a substantial role to play towards the lowering of our carbon footprint without sacrificing functionality or compromising safety.

At HELLA New Zealand we are dedicated to designing and manufacturing products for an extended useful economic life, which is the responsible choice to conserve the world's precious resources.

Martin Reinbach, Managing Director, HELLA-New Zealand Limited





PRODUCT SECTION CONTENTS

Finding your way around this catalogue is easy with clear section headings on each page, a consistent style and user-friendly display of all product information. For reference by part number, refer to the index at the rear of the catalogue.

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PART NUMBER



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HELLA	Engineering Drawing No.	A.D.R. No.	Function
Part No.		48/00	Number Plate Lamp
2550	001386-28		Number Plate Lamp
2551	001386-29	48/00	Number Plate Lamp
2553	951068-02	48/00	Number Plate Lamp
	950921-00	48/00	
2554	001389-10	49/00	Number Plate Lamp
2555	900967-03	48/00	Number Plate Lamp
2557	10000	48/00	Number Plate Lamp
2558	004525-00	1000000	Number Plate Lamp
2559	959640-30	48/00	Retro Reflector (Red/
2902	002016-11	47/00	Retro Reflector (Red/
2910	900913-04	47/00	Retro Reflector (Red/
2910	002014-03	47/00	Retro Reflector (Amb

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HELLA NEW ZEALAND TECHNOLOGY WITH VISION

For over 20 years HELLA New Zealand has adopted the entrepreneurial spirit of its founders and developed into a LED lighting technology company with comprehensive in-house design and manufacturing facilities.

The history of HELLA is inextricably linked to the development of the automobile. Registered in June 1899, in Lippstadt, Germany, the company has grown due to entrepreneurial boldness and foresight, developing innovative products and processes, a committed workforce and by a customer-focused approach.

HELLA International represents the worldwide HELLA organisation. This includes all HELLA production facilities, research and development, original equipment and aftermarket sales and trading companies with over 29,000 employees. With over 100 manufacturing facilities, production subsidiaries and joint ventures located in more than 35 countries, the company group is a global-operations partner to the motor industry. Sales companies and partners worldwide supply automobile manufacturers and the specialised trade around the globe.

HELLA-New Zealand Limited

HELLA-New Zealand Limited was founded in 1973 to manufacture, market and distribute products in New Zealand.

Today the company designs and manufactures innovative lighting products for the commercial transport and automotive industries, using the latest LED (Light Emitting Diode) technology. With these products HELLA New Zealand is a supplier to automotive manufacturers and commercial transport fleets all over the world.

HELLA is a prominent brand in the New Zealand aftermarket and in the commercial transport sector, with key relationships with original equipment bus, coach and trailer manufacturers.

Customer Service

HELLA backs up its products with a dedicated customer services team that can advise customers on product availability, product selection, installation and delivery.

The advantage of manufacturing a large percentage of our products locally; for both local customers and a large overseas client base, allows for a high degree of flexibility and customisation unmatched in the New Zealand automotive industry, thus our order fill rate ranks consistently among the highest in the industry.

HELLA customer service provides customers with 'best fit' solutions based on sound professional knowledge and experience in the commercial transport sector. With access to a wide global database within the HELLA group, customer service is the recommended first stop for any customer inquiries.



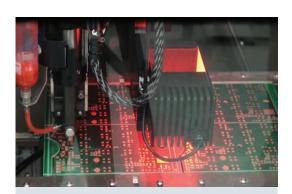








EXPERTLY DESIGNED AND PRECISION MANUFACTURING FOR VISIBILITY AND SAFETY ON NEW ZEALAND ROADS



Fit and Forget by Design is your peace of mind of purchasing a product which is designed to stand the test of time, without compromise.



FIT & FORGET BY DESIGN

Fit and Forget by Design is not just a marketing slogan, it is a philosophy adopted by our design team in 1998 when HELLA New Zealand designed our first DuraLED® signal lamp for the commercial transport sector.

To create lamps that will function faultlessly for the vehicle life and beyond requires dedication to excellence and the

most rigorous, verified test regime. Extensive consultation with our most discerning industry partners was conducted, followed by months of field tests before the first DuraLED® was ever sold to a customer.

Over the past 16 years the same team of dedicated perfectionists have continuously improved the latest designs from ongoing research and market experience.

Material selection, LEDs, optics, drive electronic, circuit protection, design of the sealing geometries, rigidity versus deliberate flexibility of the mounting system all work in harmony to create a product of truly lasting value and safe operation.

Fit and Forget by Design is your peace of mind of purchasing a product which is designed to stand the test of time, without compromise.



Designed and tested for guaranteed reliability and performance.



Marker and Signal Lamps

The range of HELLA Marker and Signal Lamps have been accepted as the most advanced lighting solution for commercial vehicles.





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LED MARKER AND SIGNAL LAMPS

Our expanding range of LED based marker and signal lamps has been accepted as the most advanced solution to trim maintenance expenses of Commercial Transport Fleets and Operators.

Since the introduction of the first HELLA LED signal lamp in 1990, this innovative technology has set new standards and received considerable worldwide recognition. Over two decades, we have refined our designs and developed production technologies now used in millions of lamps produced annually, all engineered and tested to the most demanding standards.

Our local research, development and production facilities have allowed us to respond quickly to market feedback from New Zealand and Australian manufacturers of transport equipment, as well as many discerning Fleet Operators from all over the globe. Their input has been invaluable and has ultimately helped New Zealand manufactured LED technology products to succeed in world markets.

HELLA Fit and Forget LED lighting systems are now firmly established as the solution that fully meets both environmental and economic considerations of the astute operator, in an ever growing catalogue of applications.

DuraLED®

HELLA's growing range of DuraLED® lamps, incorporating the latest LED technology, has proven to be the superior economic and environmental choice for transport operators in New Zealand. DuraLED® has a track record to last the distance. The first DuraLED® lamps were supplied in 1998, some 16 years ago and are still in use today.

DuraLED® lamps offer distinctive designs with shallow shapes and concealed mounting screws for enhanced protection against damage.

Most marker and signal lamps are pre-wired with sheathed multi-core cable, fully sealed against dust and moisture to International Protection Standards IP 6K6/IP 6K7, and compliant with current ADR (Australian Design Rules). As a result, these lamps are approved for use in New Zealand and Australia.

Once again following market demand, we now offer a range of selected models of DuraLED® lamps with moulded-in-Deutsch (DT) Connectors.

HELLA's innovative DuraLED® lamps are designed for use on trucks, buses, caravans, emergency vehicles and speciality applications. The range includes marker lamps, direction indicators, end outline lamps, position lamps, high intensity warning signal lamps and a combination stop/rear position/indicator lamp range incorporating special ultra wide optics for enhanced visibility.

EuroLED®

The EuroLED® marker and signal range of LED lamps harness the benefits of a single high intensity LED. The use of precision optics give the EuroLED® lamp a unique look along with the benefits of low power consumption. EuroLED® marker and signal lamps feature a shallow design and special ultra wide optics for significantly improved side visibility.

EuroLED® lamps are also shockproof and fully sealed to withstand temporary water submersion and high-pressure washing, ensuring long service life and durability.

EuroLED® lenses are made from specially formulated high impact acrylic with enhanced chemical resistance.







Superior Lens and Optic Materials

The majority of HELLA DuraLED® and EuroLED® lamps are produced using specially formulated enhanced high impact acrylic, that has superior resistance to most commonly used wash and cleaning liquids.

HELLA recommends these hermetically sealed marker and signal lamps for most commercial transport applications to provide an ultra long term and environmentally friendly lighting solution.

In 2009 HELLA took the design and development of ultra durable lighting solutions to a new level by specifying the Swiss Made high-tech material Grilamid® for some selected applications.

Grilamid® has quickly become the material of choice for the discerning equipment operator and fleet managers.

UV Resistance

New Zealand and Australia are exposed to some of the highest and harshest UV radiation in the world. Most consumers will have purchased and experienced products made from plastic materials that deteriorate, fade and often become brittle very quickly when exposed to the sun.

Most of the LED lighting equipment we supply is likely to be continually exposed to this harsh environment. HELLA New Zealand only manufactures products from materials which are highly resistant to UV deterioration.

HELLA New Zealand LED lamps are designed to withstand our harsh environmental conditions and will tolerate long term exposure to high UV levels without fading or embrittlement.

GRILAMID® Specified by HELLA

An Increasing Range of Lamps with Grilamid® Lenses and Optics

Grilamid® is a revolutionary optical grade Polyamide made in Switzerland. Grilamid® offers an unbeatable combination of properties including toughness against impact, long term UV stability and resistance to commonly used chemicals and washes. As such Grilamid® has become the specified material of choice for many of HELLA's valued commercial customers and end users.

HELLA has responded to this strong customer demand and has significantly expanded the range of products with optional Grilamid® lenses. In addition, we have taken the bold step and standardised Grilamid® for some popular lamps at no extra cost to our customers.

Long Term Transparency

Grilamid® will not lose its lustre or embrittle over time but will remain clear, transparent and impact tough for the life of the product. Grilamid® retains its superior optical performance without discolouration.

Cleaning Products

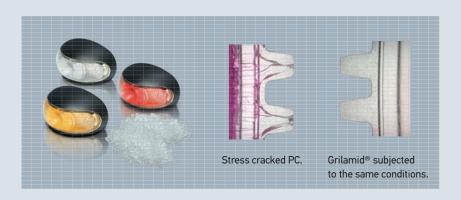
The use of cleaning chemicals and even general liquid detergents is sometimes used as a reason to void warranties for products made from Polycarbonate. Such chemicals can cause crazing and/or cracking of this particular plastic type.

Grilamid® is highly resistant to chemicals commonly used in the transport industry, even in applications where it is regularly exposed to chemicals used to wash and sterilise equipment used in our Primary Industries. It is the ideal material for a true Fit and Forget performance.

Grilamid® Retains its Toughness

LED truck and trailer lamps are frequently exposed to mechanical impacts by stones, tree branches and general shocks. Uncoated Polycarbonate will lose its impact resistance over time.

Tests prove and market feedback confirms the superior strength and toughness of Grilamid® is not compromised even through the prolonged effects of weathering and UV exposure.



Grilamid® has quickly become the material of choice for operators of equipment exposed to high vibration, impact and chemical conditions.



Electromagnetic Compatibility (EMC)

HELLA LED lamps are electronic devices. The electrical circuits contain components that have been optimised to suppress frequencies that can interfere with communication equipment or even the common radio. The circuits are also specially designed to reduce the susceptibility to interference from electric fields.

Protection Against Damage Due to Voltage Spikes

HELLA lamps are protected against damage from positive voltage spikes caused by events such as load dump conditions and overvoltage. The circuits are also protected against reverse polarity connection and negative voltage spikes.

Easy Refurbishment of Acrylic and Grilamid® Lenses

In a world consuming resources at an ever increasing rate, HELLA LED lamps manufactured with enhanced impact acrylic and Grilamid® are a truly long-term investment.

Both these materials can be refurbished to near new condition by polishing out fine scratches and road grime.

As illustrated in the photo, a DuraLED® lamp with several years of active high mileage road use can be refurbished to pristine near new condition.



Acrylic and Gritamid" lamps can be polished to look like new.



HELLA Fit and Forget LED lighting systems are firmly established as the solution that fully meets both environmental and economic considerations of the astute operator.

www.hella.co.nz

TECHNICAL PRODUCT LOGOS

Your guide to understanding the technical product logos found throughout the marker and signal section.



Multivolt™

One of the leading advantages of HELLA's LED technology is the Multivolt™ circuitry fitted to most of our LED lamps, ensuring a uniform level of intensity and optimum brightness. Multivolt™ LED lamps can be connected to either 12 or 24 volt DC electrical systems. The light performance will not be adversely affected by voltage drop over long cables and corroded connectors. LED lamps fitted with Multivolt™ circuitry are clearly marked throughout the catalogue.



Grilamid®

Grilamid® has quickly become the material of choice for operators of equipment exposed to high vibration and impact conditions as well as in applications regularly exposed to petrochemicals and chemicals used to wash and sterilise equipment used in our Primary Industries.

See page 9 for further information on Grilamid®



HCS - HELLA Compatibility Solution

Vehicles operating on New Zealand public roads require the direction indicator lamps to be monitored for correct function. When a 21 watt bulb based lamp is exchanged with an LED lamp, some flasher units will not recognise this LED lamp because of its low power consumption and indicate a bulb failure. Many transport fleets will operate trucks/trailers which can feature a mixture of bulb based direction indicator lamps and low power consumption LED direction indicator lamps.

In 1999 HELLA New Zealand designed the HELLA Compatibility Solution (HCS) to offer seamless compatibility between conventional bulb based lamps and HCS equipped LED lamps. The HCS control unit recognizes either a standard bulb lamp or an HCS LED lamp or a mixture thereof, and continues to work normally, without triggering the bulb failure warning function.

This technical solution has become the ISO Standard 13207-1 which is being incorporated into the body electronic of European Trucks.

Astute fleet operators today specify LED lamps designed to ISO Standard 13207-1 to ensure the future-proofing of their fleet. See page 210 for further information on HCS Technology and ISO 13207-1



Ultra Wide Visibility Optics

HELLA continues to increase its range of LED signal lamps that incorporate Ultra Wide Visibility Optics. LED lamps strictly designed to minimum legal requirements in the horizontal +/-10 to +/-45 degree field suffer from signal fade and become less visible in bright sunlight.

By incorporating Ultra Wide Visibility Optics, HELLA LED signal lamps are much more noticeable to following drivers particularly as the vehicle in front turns and the LED stop or turn signal is viewed from an angle.

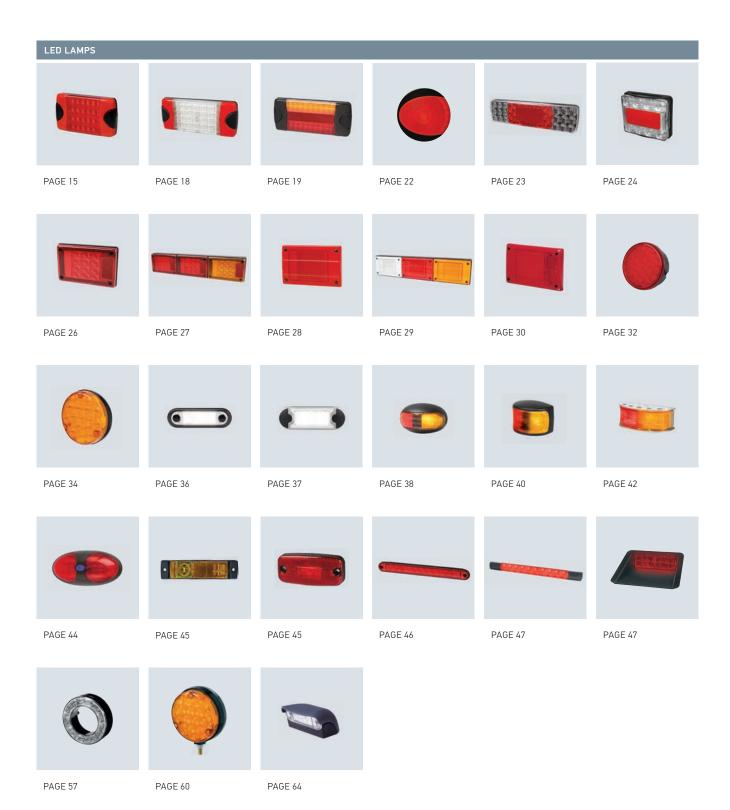
HELLA LED signal lamps, incorporating Ultra Wide Visibility Optics, far exceed the minimum legal brightness requirement beyond the +/-10 degree horizontal angle. These lamps provide a significantly enhanced stop and turn signal to the driver of the following vehicle. LED signal lamps incorporating Ultra Wide Visibility Optics, are clearly marked throughout the catalogue.

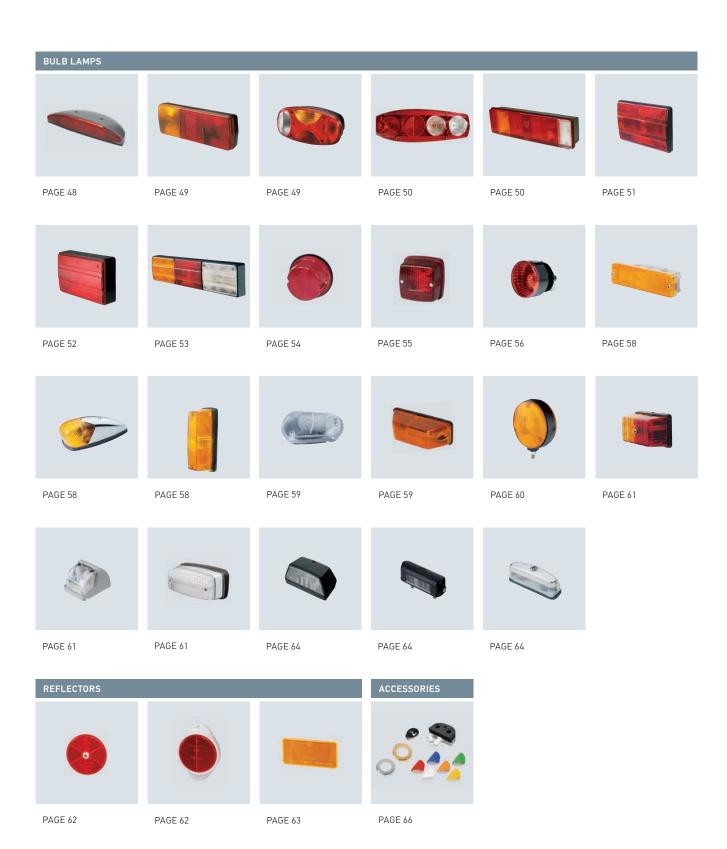


Enhanced Definition Technology (EDT)

A stop lamp has to be instantly recognised as a warning signal. To further enhance recognition an increase in illuminated area (compared to the rear position lamp) is combined with an increase in intensity. As a result the illuminated area gets larger and brighter on an EDT lamp for increased safety and awareness

QUICK REFERENCE PRODUCT GUIDE

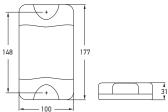




DuraLED® Stop/Rear Position Lamp with Night Light

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.













Part Number	2330-V					
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.				
Voltage	Multivolt™	for optimu	ım brightness at input v	voltages from	9 to 33 volts.	
Power Consumption	Stop:	6W	Rear position:	2.5W	Night:	2.5W
Protection	IP 6K6 (Pi	rotection a	5000 watt Transient Vogainst dust and high-progainst dust and tempor	essure water	jets)	
Cable Length	Pre-wired	l with 2.5m	of sheathed multi-core	e cable.		
Compliance	ADR 49/0	10	(E24) 5850	ECE R	7/02	
See page 66 for DuraLE	D® accessor	ies.				

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.











Part Number	2151-V				
rait Number	2151-VCS	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 3	3 volts.			
Power Consumption	2151-V 6W 2151-VCS 4W				
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (T 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	07-1 (2151-VCS only)			
See page 210 for further information on HCS Technology and ISO 13207-1.					

DuraLED® Reversing Lamp

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







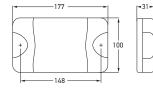
Part Number	1430-V			
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.			
Power Consumption	4W			
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length				
Cable Length Compliance	IP 6K7 (Protection against dust and temporary water immersion)			











	2330-Н					
Part Number	2330-HBL			BLISTER PACK		
	2330-HBU	LK			PACK	0F 4
Mounting		wo hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.				
Voltage	Multivolt™ fo	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.				
Power Consumption	Stop:	6W	Rear position:	2.5W	Night:	2.5W
Protection	IP 6K6 (Pro	tection agains	0 watt Transient Volta st dust and high-press st dust and temporary	sure water jets)		
Cable Length	Pre-wired v	vith 2.5m of s	heathed multi-core ca	able.		
Compliance	ADR 49/00		E24 5850	ECE R7/02		
See page 66 for DuraLE	D® accessorie	s.				

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.





P/N 2330-HBL









	2014/101			
	2151-Н			
Don't Novelease	2151-HBL	BLISTER PACK		
Part Number	2151-HBULK	PACK OF 4		
	2151-HCS	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	5 4W		
Protection	As per P/N 2330-H.			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.			
Compliance	ADR 6/00: Cat 2a	07-1 (2151-HCS only)		
See page 210 for further	r information on HCS Technology and ISO 13207-1.			

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.





P/N 2151-HBL

ADR COMPLIANCE



Part Number	1430-H			
	1430-HBL	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	3 volts.		
Power Consumption	4W			
Protection	As per P/N 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.				

DuraLED® Reversing Lamp

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



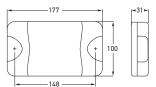


P/N 1430-HBL

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.











Part Number	2330		
rait Number	2330-BULK	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 v	rolts.	
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)	5)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 49/00		
See page 66 for DuraLED® accessories.			

DuraLED° Rear Direction Indicator Lamp

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







Part Number	2151	
Part Number	2151-BULK	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 v	olts.
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)	S)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a	

Polycarbonate Lenses

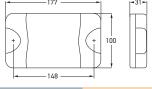
Whilst polycarbonate features a higher impact resistance compared to our preferred Enhanced Impact Acrylic, the trade-off for polycarbonate is its lower resistance to a number of commonly used chemicals.

For applications where both extreme impact resistance as well as a high resistance to chemicals is required, we recommend HELLA LED lamps manufactured from Swiss-made Grilamid® Optical Nylon.









Part Number	2331-BULK	PACK OF 4			
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	3 11			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 v	volts.			
Power Consumption	Stop: 6W Rear position: 1W Night: 1W				
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TV: 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	Polycarbonate.				
Compliance	ADR 49/00				
See page 66 for DuraLED® accessories.					

DuraLED® Stop/Rear Position Lamp with Night Light

DuraLED* stop, rear position lamp made from polycarbonate, for off-road vehicles such as logging trucks. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power consumption.







Part Number	2152-BULK PACK OF			
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 $^{\rm M}$	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.			
Lens Material	Polycarbonate.			
Compliance	ADR 6/00: Cat 2a			

DuraLED® Rear Direction Indicator Lamp

DuraLED® rear direction indicator lamp made from polycarbonate for off-road vehicles such as logging trucks.



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 and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.

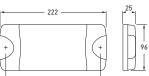




P/N 2378-BL



Ultra slim height of only 25mm.

















193 ——				
	2378			
	2378-BL			BLISTER PACK
Part Number	2378-BULK			PACK OF 12
	2378-CS	HCS TECHNOLOGY		
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: Rear direction indicator:	5W 1W 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	Grilamid*			
Compliance	ADR 6/00: Cat 2a	ADR 49/00	ISO 132	07-1 (2378-CS only)
See page 210 for further information on HCS Technology and ISO 13207-1. See page 66 for DuraLED® accessories.				



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

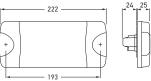
DuraLED* combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power 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.

18















Part Number	2378-DT				
Part Number	2378-DTCS			HCS TECHNOLOGY	
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 indica Night:	tor: 5W 1W	
Protection	As per P/N 2378.				
Accessory	4963-P	6 pole DT plug, wed	ge and 6 contacts.		
Lens Material	Grilamid [®]				
Compliance	ADR 6/00: Cat 2a	ADR 49/00	ISO 13207	-1 (2378-DTCS only)	
See page 210 for further information on HCS Technology and ISO 13207-1.					



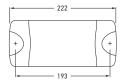
P/N 4963-P Not included with lamp.











Part Number	2377			
Part Number	2377-BL	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	Stop: 4W Rear position: 1W Rear direction indicator: 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 of the following spike in the following spike is the following spike is the following spike in the following spike is the following spike is the following spike in the following spike is the following spike in the following spike is	*		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.			
Lens Material	Grilamid [®]			
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 4	9/00		
See page 66 for DuraLE	D® accessories.			

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 and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing.





P/N 2377-BL





Ultra slim height of only 25mm.









Part Number	2377-TP	
Kit Contents	Each trailer lam	p 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 x 4921	LED number plate lamp with 5m sheathed multi-core cable. 7 pole flat plug



DuraLED® Combi-R Trailer Lighting Kit

A complete Fit and Forget solution for trailers or caravans.



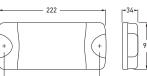
DuraLED® Combi Stop/Rear Position/ Rear Direction Indicator Lamp

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





P/N 2379-GMD















193 —		Solution		
	2379			
	2379-BL			BLISTER PACK
Part Number	Part Number 2379-BULK			PACK OF 12
	2379-CS			LICC TECHNOLOGY
	2379-GMD (With Grila	mid° lens)		HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum b	rightness at input vol	tages from 8 to 28	8 volts.
Power Consumption	Stop: Rear position: Rear direction indicator:	P/N 2379 5W 1W 5W	P/N 2379-CS/2 5W 1.5W 5W	2379-GMD
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 6m of sheathed multi-core cable. Blister pack pre-wired with 2.5m of sheathed multi-core cable.			
Compliance	ADR 6/00: Cat 2a ECE R7/02	ADR 49/00 ISO 13207-1 (2379-0	E4) 10176 GMD and 2379-CS	ECE R6/01 Sonly)

See page 210 for further information on HCS Technology and ISO 13207-1. See page 66 for DuraLED® accessories.

COMBINATION LAMP FUNCTIONS				
Stop	Rear position	Rear direction indicator		

DuraLED® Multivolt™ Trailer **Lighting Conversion Kit**

A complete Fit and Forget solution for trailers or caravans. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.









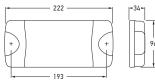


Part Number	2379-TP	
Kit Contents	Each trailer lamp	kit contains:
	2 x 2379	DuraLED* Combination stop/rear position and rear direction indicator lamp with 6m cable
	2 x 2920	Red retro reflector
	1 x 2559	LED number plate lamp
	1 x 4921	7 pole flat plug









	2380				
Part Number	2380-BL			BLISTER PACK	
	2380-GMD				GRILAMID® LENS
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.				
Voltage	Multivolt [™] for optir	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 4W Reverse: 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.				
Lens Material	Grilamid [®]				
Compliance	ADR 1/00 ECE R6/01	ADR 6/00 ECE R7/0		ADR 49/00 ECE R23/00	£24) 5870
See page 66 for DuraLED® accessories.					

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.





P/N 2380-BL

COMBINATION LAMP FUNCTIONS Stop Rear position Rear direction indicator Reverse









				173	
Part Number	2380-DT				
Part Number	2380-DTGMD			GRILAMID* LENS	
Mounting		Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.			
Voltage	Multivolt [™] for opti	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop: Rear position: Rear direction ind Reverse:	licator:	5W 1W 4W 3W		
Protection	IP 6K7 (Protection	n against du	st and temporar	age Suppressor (T y water immersion essure/steam jet o	n)
Accessory	4963-P	6 pole DT	plug, wedge an	d 6 contacts.	
Lens Material	Grilamid [®]				
Compliance	ADR 1/00 ECE R6/01	ADR 6/00 ECE R7/0		ADR 49/00 ECE R23/00	£24) 5870

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

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





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



P/N 4963-P Not included with lamp.

EuroLED® Stop/Rear Position Lamp

EuroLED® stop, rear position lamp with red lens. The use of precision optics enable 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.





P/N 2366-BL











	2366			
Part Number	2366-BL	BLISTER PACK		
	2366-BULK	PACK OF 12		
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 68 for EuroLED® accessories.				

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.





P/N 2133-BL









ADR

	2133				
5	2133-BL	BLISTER PACK			
Part Number	2133-BULK	PACK OF 12			
	2133-CS	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 P/N 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 132	07-1 (2133-CS only)			
See page 210 for further	information on HCS Technology and ISO 13207-1.				

EuroLED® Reversing Lamp

EuroLED® reversing lamp with clear lens and single LED.





P/N 1433-BL www.hella.co.nz



	1433				
Part Number	1433-BL	BLISTER PACK			
	1433-BULK	PACK OF 12			
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 P/N 2366.				
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.				
Compliance	ADR 1/00				
Reversing lamps are not designed for continuous operation.					

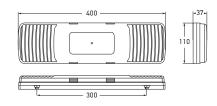












Part Number	2391			HCS	TECHNOLOGY		
Mounting		Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.					
Voltage	Multivolt™ for	optimum brighti	ness in	12 and 24 volt	systems.		
Power Consumption	Stop: Rear position Rear direction Reverse:		5W <2W 6W 5W				
Protection	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 wi	Pre-wired with 2.5m of sheathed multi-core cable.					
Spare Part	9.2391.08 Mounting pack						
Compliance	ADR 1/00	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1					
See page 210 for furthe	See page 210 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

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.





P/N 2391











Part Number	2392L		LEFT HAND SIDE			
Part Number	2392R		RIGHT HAND SIDE			
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.					
Voltage	Multivolt™ for optimum bright	Multivolt™ for optimum brightness in 12 and 24 volt systems.				
Power Consumption	Stop: Rear position/number plate: Rear direction indicator: Reverse:	5W <2W 6W 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.					
Spare Part	9.2391.08 Mounting pack					
Compliance	ADR 1/00 ADR 6/00: Cat 2a	ADR 47/00 ADR 48/00 ADR	49/00 ISO 13207-1			
	r information on HCS Technology	and ISO 13207-1.				

COMBINATION LAMP FUNCTIONS Stop Rear position Rear direction Reverse Number plate

Rear direction Reverse Number plate indicator

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

LED combination lamp with 64cm² red retro reflector and number 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.





P/N 2392L

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.



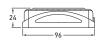




P/N 9.2394.09 Mounting spacer (not included)

P/N 2394













	2394				
Part Number	2394-BULK			PACK OF 18	
Part Number	2394-6M				
	2394-6MBULK			PACK OF 10	
Mounting		n choice of mounting hol stal or vertical mounting.		mounting base.	
Voltage	Multivolt™ for optim	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop: Rear position: Rear direction indic	2W 1W ator: 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 Pre-wired with 0.5m of sheathed multi-core cable. 2394-6M Pre-wired with 6m of sheathed multi-core cable.				
Spare Parts	9.2394.08 Mounting base 9.2394.09 Mounting spacer (not included)				
Lens Material	Grilamid [®]				
Compliance	ADR 6/00: Cat 2a ECE R6/01	ADR 47/00 ECE R7/02	ADR 49/00 ECE R3/02	E24 5860	





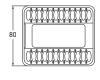














	2395				
D . N . I	2395-BULK	PACK OF 18			
Part Number	2395-6M				
	2395-6MBULK				PACK OF 10
Mounting	Surface mount with Suitable for horizor			clips into n	nounting base.
Voltage	Multivolt™ for optim	num brightness ir	n 12 and 24 volt s	ystems.	
Power Consumption	Stop: Rear position/num Rear direction indic		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		0.5m of sheathed 6m of sheathed r		
Spare Parts	9.2394.08 9.2394.09	Mounting base Mounting space	er (not included)		
Lens Material	Grilamid [®]				
Compliance	ADR 6/00: Cat 2a ECE R6/01	ADR 47/00 ECE R7/02	ADR 48/00 ECE R3/02	ADR 49/ ECE R4/	

TRAILER LAMP FUNCTIONS Stop Rear direction indicator Rear position/ Number plate

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

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and number 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.







P/N 9.2394.09 Mounting spacer (not included)

P/N 2395









Part Number	2395-TP	
Lens Material	Grilamid [®]	
Kit Contents	Each trailer lamp k	it contains:
	1 x 2394	Stop/rear position/rear direction indicator lamp with reflex reflector.
	1 x 2395	Stop/rear position/rear direction indicator/ number plate lamp function with reflex reflector.
	8 x Connectors (P/N 8231S)	Crimp connectors with heat shrink insulation.

LED Combination Lamp Trailer Kit

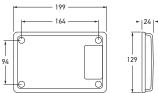
LED trailer lamp incorporating a modern clear lens design with an 18cm² red retro reflector. The optic in the lamp appears clear until illuminated.



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 no additional housing. Shockproof and fully sealed to withstand temporary water submersion and high-pressure washing.











Part Number	2361				
Mounting	Surface mount with mounting gasket and screws 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				
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 69 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 no additional housing. Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand temporary water submersion and high-pressure washing.









Don't Novel on	2161			
Part Number	2161-CS	HCS TECHNOLOGY		
Mounting	Surface mount with mounting gasket and screws supplied. Suitable for horizontal or vertical mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	6W			
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 6/00: Cat 2a ADR 47/00 ISO 13207-1 (2	2161-CS only)		
See page 210 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 no additional housing. Shockproof and fully sealed to withstand temporary water submersion and high-pressure washing.







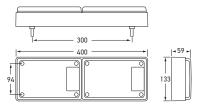
Part Number	1461		
Mounting	Surface mount with mounting gasket and screws supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (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.			











Part Number	2429-CS			HCS TECHNOLOGY	
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.				
Voltage	Multivolt™ for optimum bright	Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop: Rear position: Rear direction indicator:	5W 1W 6W			
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	

See page 210 for further information on HCS Technology and ISO 13207-1. See page 69 for Jumbo-S and Designline accessories.

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. Shockproof and fully sealed to withstand temporary water submersion and high-pressure washing.

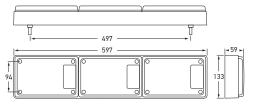












2430-CS			HCS TECHNOLOGY
Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.			
Multivolt™ for optimum brightness in 12 and 24 volt systems.			
Stop: Rear position: Rear direction indicator:	5W x 2 1W x 2 6W		
As per P/N 2429-CS.			
Pre-wired with 2m of sheathed multi-core cable.			
ADR 6/00: Cat 2a A	DR 47/00	ADR 49/00	ISO 13207-1
	Surface mount with mount Suitable for horizontal or vortice of the Multivolt™ for optimum bridstop: Rear position: Rear direction indicator: As per P/N 2429-CS. Pre-wired with 2m of shear	Surface mount with mounting bolts supp Suitable for horizontal or vertical mounting Multivolt™ for optimum brightness in 12 a Stop: 5W x 2 Rear position: 1W x 2 Rear direction indicator: 6W As per P/N 2429-CS. Pre-wired with 2m of sheathed multi-core	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting. Multivolt™ for optimum brightness in 12 and 24 volt system: Stop: 5W x 2 Rear position: 1W x 2 Rear direction indicator: 6W As per P/N 2429-CS. Pre-wired with 2m of sheathed multi-core cable.

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. Shockproof and fully sealed to withstand temporary water submersion and high-pressure washing.











2431-CS		HCS TECHNOLOGY	
Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.			
Multivolt™ for optimum	brightness in 12 and 24	4 volt systems.	
Stop Rear position: Rear direction indicator Reversing:	5W 1W : 6W 4W		
As per P/N 2429-CS.			
Pre-wired with 2m of sheathed multi-core cable.			
		ADR 47/00	
	Surface mount with mo Suitable for horizontal of Multivolt™ for optimum Stop Rear position: Rear direction indicator Reversing: As per P/N 2429-CS. Pre-wired with 2m of s	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting. Multivolt™ for optimum brightness in 12 and 20 Stop 5W Rear position: 1W Rear direction indicator: 6W Reversing: 4W As per P/N 2429-CS. Pre-wired with 2m of sheathed multi-core cab ADR 1/00 ADR 6/00: Cat 2a	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting. Multivolt™ for optimum brightness in 12 and 24 volt systems. Stop 5W Rear position: 1W Rear direction indicator: 6W Reversing: 4W As per P/N 2429-CS. Pre-wired with 2m of sheathed multi-core cable. ADR 1/00 ADR 6/00: Cat 2a ADR 47/00

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. Shockproof and fully sealed to withstand temporary water submersion and high-pressure washing.

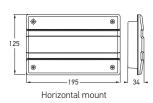


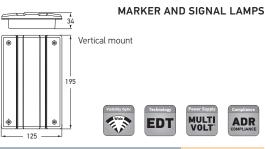
DESIGNLINE LED MOD-ULES

Designline LED Module Stop/ Rear Position Lamp

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







Part Number	2332-H24	HORIZONTAL
Part Number	2332-V24	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 69 for Designl	ine accessories.	

Designline LED Module Rear Direction Indicator Lamp

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











	2146-H24	HORIZONTAL	
D (N)	2146-V24	VERTICAL	
Part Number	2146-HCS (Incorporates HCS Technology)	HORIZONTAL	
	2146-VCS (Incorporates HCS Technology)	VERTICAL	
Mounting	Four point recess mount.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	P/Ns 2146-H24/2146-V24: 6W P/Ns 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 210 for furthe	r information on HCS Technology and ISO 13207-1.		

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.







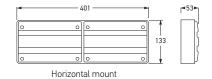
	1446-Н		
D . N . I	1447L (High performance - Left hand side)	HORIZONTAL	
Part Number	1447R (High performance - Right hand side)		
1446-V		VERTICAL	
Mounting	Four point recess mount.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	P/Ns 1446-H/1446-V: 4W P/Ns 1447L/1447R: 7W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (T	VS).	
Cable Length	Pre-wired with 200mm of cable.		
Compliance	ADR 1/00		
Reversing lamps are no	t designed for continuous operation.		











Doub Novel on	2426-H		HORIZONTAL
Part Number	2426-V		VERTICAL
Mounting	Two bolt surface mount.		
Voltage	Multivolt™ for optimum bright	ness at input voltages from 9 to 33	3 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 69 for Designline accessories.			

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

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

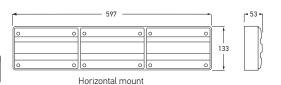












Part Number	2427-Н		HORIZONTAL
Part Number	2427-V		VERTICAL
Mounting	Two bolt surface mount.		
Voltage	Multivolt™ for optimum brigh	tness at input voltages from 9 to 33	3 volts.
Power Consumption	Stop: Rear position: Rear direction indicator:	6W x2 2W x 2 6W	
Cable Length	Pre-wired with 2m of multi-	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 Lamp

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











Part Number	2428-H		HORIZONTAL
	2428-V		VERTICAL
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 4	49/00
Reversing lamps are not designed for continuous operation.			

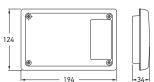
Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp



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.











Part Number	2317
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 69 for Designl	ine 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.





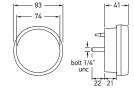


Part Number	2138		
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	9W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).		
Cable Length	Pre-wired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









Part Number	2108-GMD			12 VOLT
Part Number	2108-GMD24V			24 VOLT
Mounting	Flush mount. Single bol	t 1/4" stainless UNC	thread. Nut and was	her supplied.
Power Consumption	Safety DayLights™: Front position: Front direction indicator	P/N 2108-G 4W 1W : 3W	MD P/N 2108-GMI 4W 1W 4W	D24V
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	Grilamid [®]			
Compliance	ADR 6/00: Cat 1a ECE R6/01	ADR 49/00 ECE R7/02	ADR 76/00 ECE R87/00	E24) 5854
See page 69 for mounting accessories.				

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.





DayLights¹









Part Number	2107
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 1a

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.



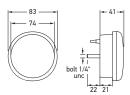
83mm Round LED Stop/Rear Position Lamp

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.





P/N 2390 Rear position P/N 2390-BL











	2390	
Part Number	2390-BL	BLISTER PACK
	2390-BULK	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and was	sher supplied.
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (T IP 6K7 (Protection against dust and temporary water immersion IP 6K9K (Protection against dust and high-pressure/steam jet c	1)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00	
See page 69 for mounting	ng 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.





P/N 2130-BL







ADR

	2130		
Part Number	2130-BL	BLISTER PACK	
	2130-BULK	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 P/N 2390.		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a		
Contact HELLA for 24 volt HCS version.			

83mm Round LED Reversing Lamp

83mm diameter LED reversing lamp with single bolt mount.



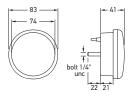


P/N 1490-BL

	1490		
Part Number	1490-BL	BLISTER PACK	
	1490-BULK	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	As per P/N 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.



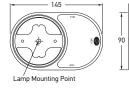


P/N 2399-BL

	2399		
Part Number	2399-BL	BLISTER PACK	
	2399-BULK	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: 3W Rear position: 1W Rear direction indicator: 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 ADR 49/00 E9 15: ECE R6/01 ECE R7/02	38	

Contact HELLA for 24 volt HCS version. See page 69 for mounting accessories.

ADR COMPLIANCE



art Number	2934Н	HORIZONTAL
	2934V	VERTICAL
lounting	Utilises bolt mount from 83mm round lamps.	
ompliance	ADR 47/00	

Red Retro Reflector Base

Red retro reflector to suit 83mm round lamps. Reflector area $31.7 cm^2$.



ADR COMPLIANCE

ach trailer lamp kit cor	ntains:
Each trailer lamp kit contains:	
	Combination stop/rear position and rear direction indicator lamp with 6m cable
x 2934H	Red retro reflector base – horizontal mount
	LED number plate lamp 7 pole flat plug
)	< 2934H < 2559

LED Lighting Trailer Conversion Kit

A complete Fit and Forget solution for small trailers.



110mm Round LED Front Direction Indicator Lamp

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











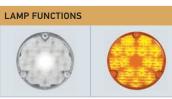
ADR

Part Number	2135LED	
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 1a	

110mm Round LED Front Position/ Front Direction Indicator Lamp with 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.





Front position

	HC	Ś
nber	2131-CS	

Part Number	2131-CS		HCS TECHNOLOGY
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 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 6/00: Cat 1a ECE R7/02	<u> </u>	ECE R6/01 ISO 13207-1

See page 210 for further information on HCS Technology and ISO 13207-1.















Chrome bas

	2359	CHROME BASE
Part Number	2367	BLACK BASE
	2365	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 Stop/ Rear Position Lamp

110mm round LED stop, rear position lamp specifically designed for commercial transport, buses, caravans and trailers. Features low power consumption, impact resistant acrylic lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.







P/N 2367

P/N 2365







	2159	CHROME BASE
Part Number	2167	BLACK BASE
	2165	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	As per P/N 2359.	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	

110mm Round LED Rear Direction Indicator Lamp







P/N 2167

P/N 2165

ADR COMPLIANCE



BLACK BASE		
MODULE		
Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
5W		

110mm Round LED Reversing Lamp







P/N 1467

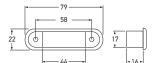
P/N 1465

LED Flush Mount Front Position/ **End Outline Lamp**

White front position or front end outline LED lamp (FEOL).









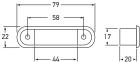


Dout Noushou	2055		
Part Number	2055-BULK	PACK OF 4	
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and 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		
See page 70 for spare p	arts and accessories.		

LED Flush Mount Front End Outline Lamp

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









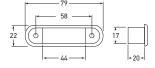


Part Number	2056		
Part Number	2056-BULK	PACK OF 4	
Mounting	Suitable for horizontal mounting.		
Compliance	ADR 49/00		
Other specifications as p	per P/N 2055. See page 70 for spare parts and accessories.		

LED Flush Mount Cab Marker Lamp

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









Part Number	2057		
	2057-BULK	PACK OF 4	
Mounting	Suitable for horizontal mounting.		
Compliance	ADR 45/01		
Other enecifications as r	par D/N 2055. Saa page 70 for spare parts and assessories		

LED Flush Mount Rear Position/ **End Outline Lamp**

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



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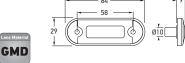


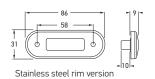
Part Number	2308			
	2308-BULK			PACK OF 4
Compliance	ADR 49/00	E4 02 7597	ECE R7/02	
Other specifications as per P/N 2055. See page 70 for spare parts and accessories.				

36









Part Number	2059			
	2059-BULK (Pack of 16)			
	2059S		POLISHED STAINLESS	
	2059S-BULK (Pack of 16)		STEEL RIM	
Mounting	Surface mount. Suitable for horizontal or vertice	al 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 - Polishe		
Lens Material	Grilamid [®]			
Compliance	ADR 49/00			

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 Grilamid* nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.







P/N 2059S

59S P/N 2059









See page 67 for DuraLED® marker lamp accessories.

Part Number	2060	
	2060-BULK (Pack of 16)	
	2060S	POLISHED STAINLESS
	2060S-BULK (Pack of 16)	STEEL RIM

Other specifications as per P/N 2059.

DuraLED® Flush Mount Front End Outline Lamp

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



DuraLED® Flush Mount Rear Position/End Outline Lamp

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



P/N 2060S

ADR COMPLIANCE





Part Number	2310	
	2310-BULK (Pack of 16)	
	2310S	POLISHED STAINLESS
	2310S-BULK (Pack of 16)	STEEL RIM

Other specifications as per P/N 2059.



P/N 2310S

clear until illuminated.

DuraLED® Side Marker Lamp

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





P/N 2053









Part Number	2053		
Part Number	2053-BULK	PACK OF 4	
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. 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 67 for DuraLE	D® marker lamp accessories.		

DuraLED® Side Marker Lamp

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









Part Number	2053-GMD		
	2053-GMDBULK	PACK OF 4	
Mounting	Surface mount.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	As per P/N 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		
Lens Material	Grilamid*		
Compliance	ADR 45/01		

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

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







Part Number	2026		
	2026-BULK (Pack of 4)	PACK OF 4	
Mounting	Surface mount.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	As per P/N 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		
See page 59 for function category details.			











DuraLED® Front End Outline Lamp

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





Part Number	2051			
Part Number	2051-BULK	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			
Lens Material	Grilamid [®]			
Compliance	ADR 49/00			
See page 67 for DuraLED® marker lamp accessories.				







Part Number	2054		
	2054-BULK	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	As per P/N 2051.		
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		
Lens Material	Grilamid*		
Compliance	ADR 49/00		

DuraLED® Front Position/ **End Outline Lamp**

White ultra high impact resistant front end outline (FEOL) or front position LED lamp featuring Grilamid® lens and nylon housing.









Part Number	2307		
	2307-BULK	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	As per P/N 2051.		
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		
Lens Material	Grilamid*		
Compliance	ADR 49/00		

DuraLED® Rear Position/ **End Outline Lamp**

Red ultra high impact resistant rear end outline (REOL) or rear position LED lamp featuring $\operatorname{Grilamid}^{\circ}$ lens and nylon housing. Optic appears clear until illuminated.



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 Grilamid* nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

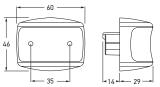








P/N 4960-P Not included with lamp.



Part Number	2073			
	2073-BULK	PACK OF 8		
Mounting	Surface mount. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems	5.		
Power Consumption	<1W			
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary	orary water immersion.		
Spare Parts	4960-P 2 pole DT plug, wedge and 2 contacts. 9.2073.09 Black nylon housing			
Lens Material	Grilamid*			
Compliance	ADR 45/01			

DuraLED® Heavy Duty Cab Marker/ Supplementary Side Direction Indicator Lamp with DT Connector

Heavy duty amber LED cab marker or supplementary side direction indicator lamp with DT connector and nylon housing. Featuring ultra durable Grilamid* nylon lens for extreme impact, UV, chemical and stress resistance.

Optic appears clear until illuminated.







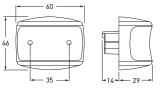


Part Number	2076			
Part Number	2076-BULK		PACK OF 8	
Mounting	Surface mount. Suitable for horizontal mounting.			
Voltage	Multivolt™ for optin	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W			
Protection	Reverse polarity pr Fully sealed agains	rotection. st dust, high-pressure washing and tempora	ry water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black nylon housing		
Lens Material	Grilamid°			
Compliance	ADR 45/01	ADR 6/00: Cat 5		









Part Number	2071		
	2071-BULK		PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightne	ss 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 p 9.2073.09 Black nyloi	lug, wedge and 2 contacts. housing	
Lens Material	Grilamid*		
Compliance	ADR 49/00		

DuraLED® Heavy Duty Front End Outline Lamp with DT Connector

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









Part Number	2074		
Part Number	2074-BULK		PACK OF 8
Mounting	Surface mount. Suitable for horizontal m	ounting.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	Reverse polarity protection Fully sealed against dust	on. , high-pressure washing and temporar	y water immersion.
Spare Parts		le DT plug, wedge and 2 contacts. k nylon housing	
Lens Material	Grilamid*		
Compliance	ADR 49/00		

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 Grilamid* nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.









Part Number	2312		
Part Number	2312-BULK		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 pro Fully sealed agains	otection. t dust, high-pressure washing and temporar	y water immersion.
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black nylon housing	
Lens Material	Grilamid [®]		
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 Grilamid* nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



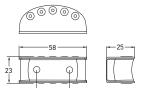
DuraLED° Heavy Duty Side Marker Lamp - Red/Amber

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





P/N 2058 P/N 2058P



	2058	MATT FINISH	
	2058-BULK (Pack of 15)		
Part Number	2058P		
	2058P-BULK (Pack of 15)	POLISHED FINISH	
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.		
Spare Parts	9.2058.09 Stainless steel housing 9.2058.10 Polished stainless steel housing		
Lens Material	Grilamid*		
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 Lamp

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









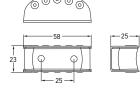


Part Number	2027		MATT FINISH
	2027-BULK (Pack of 15)		MAII FINISH
Part Number	2027P		POLISHED FINISH
	2027P-BULK (Pack of	15)	PULISHED FINISH
Mounting	Surface mount. Suitable for horizontal me	ounting.	
Voltage	Multivolt™ for optimum b	rightness in 12 and 24 volt systems.	
Power Consumption	<1W		
Protection	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.		
Spare Parts	9.2058.09 Stainless steel housing 9.2058.10 Polished stainless steel housing		
Lens Material	Grilamid [®]		
Compliance	ADR 45/01 ADR 6/00: Cat 5		
The industrial polishing process utilised on the housings may not always be 100% blemish free.			









	2061	MATT FINISH		
Part Number	2061-BULK (Pack of 15)			
	2061P	DOLIGHED EINIGH		
	2061P-BULK (Pack of 15)	POLISHED FINISH		
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.			
Spare Parts	9.2058.09 Stainless steel housing 9.2058.10 Polished stainless steel housing			
Lens Material	Grilamid®			
Compliance	ADR 49/00			
The industrial polishing process utilised on the housings may not always be 100% blemish free.				

DuraLED® Heavy Duty Front Position/End Outline Lamp

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









Part Number	2062	MATT FINISH
	2062-BULK (Pack of 15)	MAII FINISH
	2062P	POLISHED FINISH
	2062P-BULK (Pack of 15)	POLISHED FINISH

Other specifications as per P/N 2061.

DuraLED® Heavy Duty Front End Outline Lamp

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









Part Number	2311	MATT FINISH
	2311-BULK (Pack of 15)	MATTIMO
	2311P	DOLIGHED EINIGH
	2311P-BULK (Pack of 15)	POLISHED FINISH

Other specifications as per P/N 2061.

DuraLED® Heavy Duty Rear Position/End Outline Lamp

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



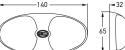
DuraLED® Supplementary Side Direction Indicator Lamp (Cat. 5)

LED supplementary side direction indicator featuring amber impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility. See page 59 for function category details.





P/N 2031-BL











Part Number	2031			
	2031-BL	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.			
Projected Luminous Area	51cm ²			
Spare Part	9.2366.17 Screw boss kit			
Lens Material	Polycarbonate.			
Compliance	ADR 6/00: Cat 5			
\ <u>-</u>				

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.





P/N 2033-BL







Part Number	2033			
	2033-BL	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.			
Spare Part	9.2366.17 Screw boss kit			
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.



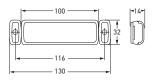






Part Number	2309		
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Power Consumption	3W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Spare Part	9.2366.17 Screw boss kit		
Lens Material	Polycarbonate.		
Compliance	ADR 49/00		





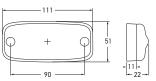
LED Side Marker Lamp - Amber

Side marker lamp with reflex reflector for horizontal mounting. Reverse polarity protection.



Part Number	2PS 008 645-011			12 VOLT
	2PS 008 645-001			24 VOLT
Power Consumption	12V 24V	0.5W 1W		
Cable Length	Pre-wired with 1.5m of sheathed multi-core cable.			
Compliance	E1) 1395	E1) 1396	ECE R3/02	ECE R91/00

Certified ECE CERTIFIED



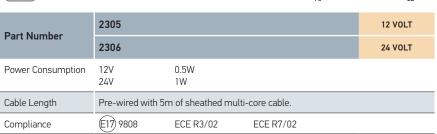
LED Side Marker Lamp - Amber

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



Part Number	2PS 963 639-	007		12 VOLT
Part Number	2PS 963 639-	017		24 VOLT
Power Consumption	12V 24V	0.7W 1.3W		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.			
Compliance	E17) 9605	ECE R3/02	ECE R91/00	





LED Rear Position Lamp - Red

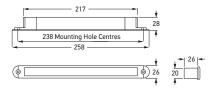
LED rear position lamp with inbuilt red retro reflector. Bridge circuit for protection against polarity reversal.



LED Stop/Rear Position Lamp

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









Part Number	2334-12V	12 VOLT	
	2334-24V	24 VOLT	
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.





Part Number	2156-12V	12 VOLT	
	2156-24V	24 VOLT	
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. Clear lens version optic appears clear until illuminated.







P/N 5243-CLEAR

	RED LENS	RED LENS CLEAR LENS		
Part Number	5243	5243-CLEAR	12 VOLT	
	5243-24V	5243-24VCLEAR	24 VOLT	
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)			
Cable Length	Pre-wired with 2.5m of multi-core cable.			
Spare Part	9.5243.05 Gasket			
Compliance	ADR 49/00: Cat S3	E4) 02 7547 ECE R7/0	2	









Part Number	5245	12 VOLT		
Part Number	5245-24V	24 VOLT		
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	Grilamid*			
Accessories	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4)			
Compliance	ADR 49/00: Cat S3			

LED 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 Grilamid" nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.





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

ADR COMPLIANCE

	5237 (Coupe)			
Part Number	5238 (Sedan)			12 VOLT
	5239 (Wagon)			
Mounting	Adhesive mountin Window angles fo	5 1	Sedan 37° - 56° and Wago	n 57° - 80°.
Voltage	12V			
Power Consumption	3W			
Cable Length	Pre-wired with 2.5	īm of multi-core cabl	e.	
Spare Parts	P/N 5237 P/N 5238 P/N 5239	LED insert 12V 9.5237.01 9.5237.01 9.5237.01	Housing kit & decal 9.5237.09 9.5238.09 9.5239.09	
Compliance	ADR 49/00: Cat S3	3		

LED 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.



P/N 5237 Shown illuminated





P/N 5238

P/N 5239













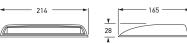
P/N 5237

P/N 5238

External Mount High Level Brake Lamp

Designed to mount externally on boot lid. Die-cast metal housing with grey powder coat finish. May be painted to match vehicle.







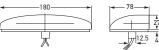


Part Number	5242
Mounting	External on boot lid.
Bulb to Suit	W1221
Compliance	ADR 49/00: Cat S3

External Mount High Level Brake Lamp

Designed to mount externally on boot lid. May be painted to match vehicle.







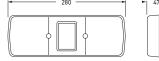


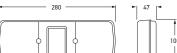


2DA 007 541-001	
External on boot lid.	
12V 24V	W125 x 4 W245 x 4
E1) 2343	ECE R7/02
	External on boot lid









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

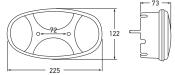
Suitable for insulated earth circuits. Shallow body. Retro reflector area 32cm^2 .



	2397	12 VOLT		
5	2397-BULK (Pack of			
Part Number	2397-24V	24 VOLT		
	2397-24VBULK (Pack			
Mounting	Surface mount.			
Bulbs to Suit	Stop: Rear position: Rear direction indicator:	12V K1221 L125 K1221	24V K2421 L245 K2421	
Spare Part	9.2397.01	Lens		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00	







Part Number	2VP 343 640-02	7		RIGHT HAND SIDE
	2VP 343 640-03	7		LEFT HAND SIDE
Mounting	Surface mount. Suitable for horizo	ntal or vertical m	nounting.	
Bulbs to Suit	Stop: Rear position: Rear direction indic Reversing:	12V R1221 G1210 cator: R1221 R1221	24V R2421 G2410 R2421 R2421	
Compliance	(E17) 0303	ECE R6/01	ECE R7/02	ECE R23/00

Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

Suitable for light trailer, agricultural and construction vehicles.

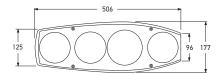


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Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

For mobile homes. With reversing light and round reflector.







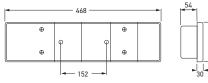


Part Number	2VP 341 419-127	RIGHT HAND SIDE			
Part Number	2VP 341 419-137	LEFT HAND SIDE			
Mounting	Horizontal flush mount	into body.			
Bulbs to Suit	Stop/Rear position: Rear direction indicator: Reversing:	12V S1221/5V R1221 R1221	24V S2421/5 R2421 R2421	V	
Compliance	E4 9836 ECE R6	/01 ECE	R7/02	ECE R23/0	0 ECE R3/02

Rear Combination Lamp to suit MAN 93-00/Scania 88-96

Combination rear lamp with stop, rear position, reversing, rear direction indicator, rear fog functions and reflex reflector.



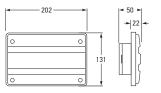




Part Number	2VP 008 204-061			
Mounting	Two bolt mount (bolts s	upplied).		
Bulbs to Suit	Stop: Rear position: Rear direction indicator: Reversing:	12V R1221 G125 x 3 R1221 R1221	24V R2421 G245 x 3 R2421 R2421	
Spare Part	9EL 152 889-001	Lens and gasket		
Compliance	E4 9808 E4 981 ECE R6/01 ECE R7		\sim	2 ECE R38/00







Designline Stop/Rear Position Lamp with Retro Reflector

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



Part Number	2321		12 VOLT
Part Number	2321-24V		24 VOLT
Mounting		Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.	
Bulbs to Suit	12V 24V	S1221/5V S2421/5V	
Compliance	ADR 47/00	ADR 49/00	

ADR COMPLIANCE



Part Number	2145	12 VOLT
	2145-24V	24 VOLT
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.	
Bulbs to Suit	12V R1221 24V R2421	
Compliance	ADR 6/00: Cat 2a	

Designline Rear Direction Indicator Lamp

Single bulb holder. Suitable for insulated earth circuits.







Part Number	2046	12 VOLT
	2046-24V	24 VOLT
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.	
Bulbs to Suit	12V R1221 24V R2421	
Compliance	ADR 1/00	

Designline Reversing Lamp

Single bulb holder. Suitable for insulated earth circuits.



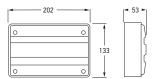
SPARE PARTS FOR DESIGNLINE RECESS MOUNT LAMPS

9.2320.01	Red lens
9.2144.01	Amber lens
9.2041.01	Clear lens
9.2043.05	Lens or base gasket
9.2046.09-BULK	Housing
9.2320.08	Double contact bulb holder (includes 12V bulb)
9.2320.08-24V	Double contact bulb holder (includes 24V bulb)

Designline Stop/Rear Position Lamp with Retro Reflector

Single bulb holder. Suitable for insulated earth circuits. Reflector area $35 \mathrm{cm}^2$.









ADR

D . N . I	2320			12 VOLT
Part Number	2320-24V	2320-24V		24 VOLT
Mounting		Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Bulbs to Suit	12V 24V	S1221/5V S2421/5V		
Compliance	ADR 47/00	ADR 49/00		

Designline Rear Direction Indicator Lamp

Single bulb holder. Suitable for insulated earth circuits.



Part Number	2144	12 VOLT
Part Number	2144-24V	24 VOLT
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.	
Bulbs to Suit	12V R1221 24V R2421	
Compliance	ADR 6/00: Cat 2a	

Designline Reversing Lamp

Single bulb holder. Suitable for insulated earth circuits.



Part Number	2041	12 VOLT
Part Number	2041-24V	24 VOLT
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.	
Bulbs to Suit	12V R1221 24V R2421	
Compliance	ADR 1/00	







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		12	VOLT

Dant Number	2422			12 VOLT
Part Number	2422-24V		24 VOLT	
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Bulbs to Suit	Stop/rear position: Rear direction indicator:	12V S1221/5V R1221	24V S2421/5V 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.









Part Number	2423			12 VOLT
Part Number	2423-24V		24 VOLT	
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Bulbs to Suit	Stop/rear position: Rear direction indicator:	12V S1221/5V R1221	24V S2421/5V 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.







Don't Number	2424			12 VOLT
Part Number	2424-24V			24 VOLT
Mounting	Two bolt surface mount. Suitable for horizontal o		l.	
Bulbs to Suit	Stop/rear position: Rear direction indicator: Reversing:	12V S1221/5V R1221 R1221	24V S2421/5V R2421 R2421	
Compliance	ADR 1/00 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.



SPARE PARTS FOR DESIGNLINE SURFACE MOUNT LAMPS

9.2320.01	Red lens
9.2144.01	Amber lens
9.2041.01	Clear lens
9.2043.05	Lens gasket
9.2041.09-BULK	Single Module Housing
9.2422.09	Double Module Housing
9.2423.09	Triple Module Housing
9.2041.08	Single contact bulb holder (includes 12V bulb)
9.2041.08-24V	Single contact bulb holder (includes 24V bulb)
9.2320.08	Double contact bulb holder (includes 12V bulb)
9.2320.08-24V	Double contact bulb holder (includes 24V bulb)

Stop Lamp

Single bulb holder.











Part Number	2303	
Bulbs to Suit	12V 24V	K1221 K2421
Spare Parts	2.2459.01 2.0423.03	Red lens Rubber back plate
Compliance	ADR 49/00	

Front Direction Indicator Lamp

Single bulb holder.







Part Number	2100	
Bulbs to Suit	12V 24V	K1221 K2421
Spare Parts	2.6830.01 2.0423.03	Amber lens Rubber back plate
Compliance	ADR 6/00: Cat 1a	

Front Position/End Outline Lamp

Single bulb holder.







Part Number	2000	
Bulbs to Suit	12V 24V	L125 L245
Spare Parts	2.6856.01 2.0423.03	Clear lens Rubber back plate
Compliance	ADR 49/00	

Reversing Lamp

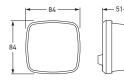
Single bulb holder.



Part Number	1407	
Bulbs to Suit	12V 24V	K1221 K2421
Spare Parts	1.5147.01 2.0423.03	Clear lens Rubber back plate
Compliance	ADR 1/00	







Stop/Rear Position/Number Plate Lamp

Suitable for insulated earth circuits.



Part Number	2384				
Bulbs to Suit	Stop: Rear position/Num	nber plate:	12V R1221 L125	24V R2421 L245	
Spare Part	9.2384.01	Red lens	5		
Compliance	ADR 48/00 ECE R4/00	ADR 49/ ECE R7/		E1) 31 453	E1) 53 210





Part Number	2147			
Bulbs to Suit	12V 24V	R1221 R2421		
Spare Part	9.2147.01	Amber lens		
Compliance	ADR 6/00: Cat 2a	E1) 32 619	ECE R6/01	

Rear Direction Indicator Lamp







Part Number	2148		
Bulbs to Suit	12V 24V	R1221 R2421	
Spare Part	9.2148.01	Amber lens	
Compliance	ADR 6/00: Cat 1a	E1) 32 661	ECE R6/01

Front Direction Indicator Lamp







Part Number	2064		
Bulbs to Suit	12V 24V	L125 L245	
Spare Part	9.2064.01	Clear lens	
Compliance	ADR 49/00	E1) 11 793	ECE R7/02

Front Position/End Outline Lamp



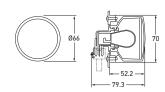




Part Number	1405		
Bulbs to Suit	12V 24V	R1221 R2421	
Spare Part	9.1405.01	Clear lens	
Compliance	ADR 1/00	E1) 8703	ECE R23/00

Reversing Lamp





The lamp features a reflector with a high quality facet pattern and a clear lens. Optimised light output, making applications behind outer cover lenses possible.

Mounting

Mounting depth of 80mm. The standard version is designed to be mounted with a screw fitting from the rear. If required the lamp can be fitted from the front using an optional mounting plate. Simplified electrical connection via a two or three pin plug (not supplied).

Stop/Rear Position Lamp







Part Number	2SB 009 001-06	ı
Bulb to Suit	12V 24V	S1221/5V S2421/5V
Compliance	E4 7613	ECE R7/02

Rear Direction Indicator Lamp







Part Number	2BA 009 001-00	1
Bulb to Suit	12V 24V	RY1221 RY2421
Compliance	E4 6546	ECE R6/01

Front Direction Indicator Lamp







Part Number	2BA 009 001-071	ı
Bulb to Suit	12V 24V	RY1221 RY2421
Compliance	E4) 6546	ECE R6/01

Front Position Lamp







Part Number	2PF 009 001-081	
Bulb to Suit	12V 24V	S1221/5V S2421/5V
Compliance	E4 7613	ECE R7/02

Reversing Lamp







Part Number	2ZR 009 001-011	
Bulb to Suit	12V 24V	R1221 R2421
Compliance	E4) 23 255	ECE R23/00







Rear Reflex Reflector

This reflector is designed to match the clear glass lamps. All the accessories and holders can be used.



60mm Accessories

Accessories to suit 60mm lamps.

Part Number	DESIGN RING FOR 60MM MODULES (OPTIONAL)			
	9HB 161 122-007	SILVER		
Mounting	Pushes over front of 60mm lamp and locks into place.			
	MOUNTING PLATE			
Don't Noveleau	MOSITINOTERIE			
Part Number	9XD 161 119-007	BLACK		
Part Number Mounting		BLACK		
	9XD 161 119-007	BLACK		

Part Number	TWO POLE PLUG (WITH TERMINALS AND SEALS)
Part Number	8JD 156 150-807

	Part Number	THREE POLE PLUG (WITH TERMINALS AND SEALS)	
	Part Number	8JD 162 581-802	



P/N 9HB 161 122-007



P/N 9XD 161 119-007



P/N 8JD 156 150-807







LED Ring Stop/Rear Position Lamp

LED ring lamp suitable for use with 60mm lamps, 16 LEDs for rear position function and 8 LEDs for stop function. Clear lens.





P/N 9HB 163 085-012

		ø112 —	49	
	2SB 009 362-02	1	12 VOLT	
Part Number	DESIGN RING FOR LED RING LAMP (OPTIONAL)			
	9HB 163 085-01	2	CHROME	
Mounting	Screw mount from rear. Design ring pushes over front of 112mm lamp and locks into place.			
Voltage	12V			
Current Draw	Stop: Rear position:	2.3W 0.1W		
Cable Length	Pre-wired with 2.5	m of cable.		
Compliance	E4 7746	ECE R7/02		

Front Direction Indicator Lamp

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











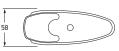
Part Number	2101	
Mounting	Flush mount. Suitable for left and	right hand mounting.
Bulbs to Suit	12V 24V	R1221 R2421
Spare Part	9.2101.01	Amber lens
Compliance	ADR 6/00: Cat 1	

Supplementary Side Direction Indicator or Cab Marker Lamp (Cat. 5)

Supplied with flat mounting gasket.











Part Number	2123	
Bulbs to Suit	12V 24V	G125 G245
Spare Parts	2.0965.02 2.0957.04 2.1872.01	Amber lens Flat rubber back plate Contoured gasket for curved surfaces
Compliance	ADR 6/00: Cat 1	ADR 45/01

Supplementary Side Direction Indicator Lamp (Cat. 6)

Single bulb holder.











Part Number	2142	
Bulbs to Suit	12V 24V	R1221 R2421
Additional Function	Supplementary side direction indicator lamp (Cat. 5) where 12V (G125) or 24V (G245) bulbs are used.	
Spare Part	9.2142.01	Amber lens
Compliance	ADR 6/00: Cat 6	









Supplementary Side Direction Indicator Lamp (Cat. 6)

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





P/N 2155-24V

Part Number	2155 (Clear lens)		12 VOLT
	2155-24V (Amber lens)		24 VOLT
Bulbs to Suit	12V 24V	RY1221 R2421	
Spare Part	9.2155.05	Wiring harness set	
Compliance ADR 6/00: Cat 6			
Arrow on lens must face direction of travel.			







Supplementary Side Direction Indicator Lamp (Cat. 6)

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



Part Number	2153		LEFT HAND SIDE
	2154		RIGHT HAND SIDE
Mounting	Surface mount.	Surface mount.	
Bulbs to Suit	12V 24V	R1221 R2421	
Compliance ADR 6/00: Cat 6			
Arrow on lens must face direction of travel.			

ADR CATEGORIES OF DIRECTION INDICATORS

ADR compliant indicators are categorised according to their intended function.

Category 1	Direction indicators for the front of the vehicle.
Category 2	Direction indicators for the rear of the vehicle.
Category 5	Supplementary side direction indicators for use on a vehicle also equipped with categories 1 and 2 direction indicators.
Category 6	Supplementary side direction indicators for use on a heavy vehicle also equipped with categories 1 and 2 direction indicators.

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

Double-sided direction indicator lamp.









Part Number	2127	
Mounting	Single bolt mount.	
Bulbs to Suit	12V 24V	R1221 R2421
Additional Function	Supplementary sid or 24V (G245) bulbs	le direction indicator lamp where 12V (G125) s are used.
Spare Part	2.9800.09	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5
See page 59 for function	category details.	

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.











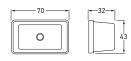
Part Number	2128LED	
Mounting	Single bolt mount.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Compliance	ADR 6/00: Cat 1	
See page 59 for function category details.		

Side Marker Lamp

Suitable for insulated earth circuits.







	2042		12 VOLT
Part Number	2042-BULK (Pack of 24)		12 VOLI
	2042-24V		24 VOLT
Bulb to Suit	12V 24V	M123 x 2 M243 x 2	
Spare Parts	9.2042.01	Red/Amber lens	
Compliance	ADR 45/01		











Outline Lamp Fitted with polycarbonate lens and single

Front Position/Front End

bulb holder.



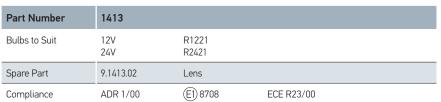
Part Number	2066		
Bulbs to Suit	12V 24V	G1210 G2410	
Compliance	ADR 49/00	E1 32 1691	ECE R7/02

Reversing Lamp

Single bulb holder.









ADR

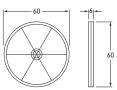
Retro Reflectors

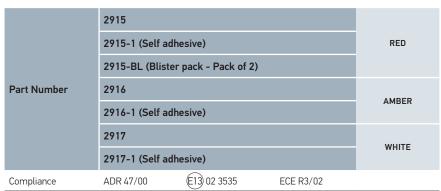
60mm diameter complete with mounting screw, 22cm². Reflectors with self adhesive are ECE certified.







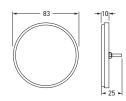




Retro Reflector - Red

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





Part Number	2902
Mounting	Single bolt mount.
Compliance	ADR 47/00

Retro Reflector

83mm diameter acrylic retro reflector with plastic or metal surround, 48cm².



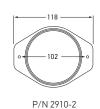
P/N 2910



P/N 2910



129



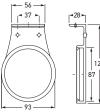


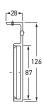
Part Number	2910 (Red)	VERTICAL
	2910H (Red)	HORIZONTAL
	2910-2 (Red - Metal surround)	VERTICAL OR HORIZONTAL
Mounting	Two hole surface mount.	
Compliance	ADR 47/00	

Retro Reflector - Red

83mm diameter red acrylic retro reflector with plastic surround, 48cm².







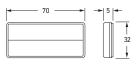


Part Number	2930		
Part Number	2930-BULK	PACK OF 32	
Mounting	Right angled base with two holes for optional surface mount.		
Compliance	ADR 47/00		

Retro Reflectors

 $70 \times 31.5 \text{mm}$ self adhesive, 18cm^2 .





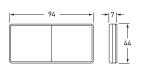
	2919	AMBER
	2920	
Part Number	2920-BL (Blister pack - Pack of 2)	RED
	2920-BULK (Pack of 20)	
	2921	WHITE
Compliance	ADR 47/00	

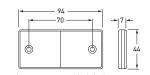




P/N 2920 P/N 2921

ADR COMPLIANCE



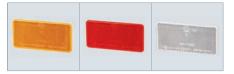


			P/N 2922-2 - I	wo bolt holes
	2922			AMBER
	2922-2 (Two bo	olt holes)		AMBER
	2923			
	2923-BL (Blister pack - Pack of 2)		RED	
Part Number	2923-BULK (Pack of 20)			
	2923-2 (Two bolt holes)			
	2923-2BL (Two bolt holes, Blister pack - Pack of 2)			
	2923-2BULK (1	Two bolt holes - Pack	c of 20)	
	2924			WHITE
Compliance	ADR 47/00	E1) 02 21395	ECE R3/02	

Retro Reflectors

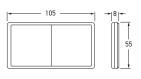
94 x 44mm self adhesive (except two bolt hole version), 33cm².





P/N 2922 P/N 2923 P/N 2924

Compliance ADR COMPLIANCE



		<u> </u>
Part Number	2925	AMBER
	2926	RED
	2926-BL (Blister pack - Pack of 2)	KEB
	2927	WHITE
Compliance	ADR 47/00	

Retro Reflectors

105 x 55mm self adhesive, 50cm².





P/N 2926 P/N 2927

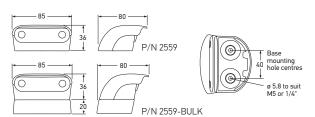
ADR

LED Number Plate Lamp

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



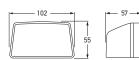




Part Number	2559			
Part Number	2559-BULK		PACK OF 8	
Mounting	Surface mount.			
Voltage	Multivolt [™] for optim	num brightness in 12 and 24 volt systems.		
Protection	,	otection. against dust and high-pressure water jets) against dust and temporary water immersion)	
Cable Length		m of multi-core cable. Id 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		

Number Plate Lamp





Part Number	2553			12 VOLT
Part Number	2553-24V			24 VOLT
Bulbs to Suit	12V 24V	G1210 G2410		
Spare Part	9.2553.01	Lens		
Compliance	ADR 48/00	E1) 22819	ECE R4/00	

Number Plate Lamp











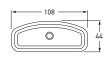
ADR

Part Number	2555		
Mounting	Two bolt mount.		
Bulbs to Suit	12V 24V	L125 L245	
Compliance	ADR 48/00	E1) 12815	ECE R4/00
Two lamps required for	ADR compliance.		

Number Plate Lamp

Fitted with two bulb holders.











Part Number	2557		12 VOLT
Part Number	2557-24V		24 VOLT
Bulbs to Suit	12V 24V	HL124 x 2 HL244 x 2	
Spare Part	9.2557.01	Lens	
Compliance	ADR 48/00		

	JUMBO LAMP SPARE PARTS		
Part Number	9.2319.01	RED LENS	
	9.2143.01	AMBER LENS	
	9.2043.01	CLEAR LENS	
	9.2043.05	LENS GASKET	







To suit P/N 2143 To suit P/N 2043

Part Number	STOP/REAR POSITION/REAR DIRECTION INDICATOR/ NUMBER PLATE LAMP SPARE PART	
	9.2396.01	RED/AMBER LENS



To suit P/N 2396

Part Number	STOP/REAR POSITION/REAR DIRECTION INDICATOR SPARE PART		
	9.2368.01	RED LENS	



To suit P/N 2368

	SIDE MARKER LAMP SPARE PARTS	
Part Number	9.2006.01	RED LENS
	9.2006.02	AMBER LENS



To suit P/N 2006

	MARKER LAMP SPARE PARTS	
Part Number	9.2045.01	RED LENS
	9.2044.01	AMBER LENS



To suit P/N 2045



To suit P/N 2044

Part Number	MARKER LAMP SPARE PARTS	
	9.2304.01	RED LENS
	9.2140.01	AMBER LENS
	9.2141.01	CLEAR LENS



To suit P/N 2304





To suit P/N 2140 To suit P/N 2141

DuraLED® Accessories

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



SCREW CAPS - DURALED®		
Part Number	Colour	Quantity
9.2330.10	RED	
9.2330.11	WHITE	
9.2330.12	BLUE	
9.2330.13	GREEN	PACK OF 4
9.2330.14	YELLOW	
9.2330.15	BLACK	
9.2330.16	AMBER	





SCREW CAPS - DURALED* COMBI-S/COMBI-R		
Part Number	Colour	Quantity
9.2378.10-BULK	RED	
9.2378.11-BULK	WHITE	
9.2378.12-BULK	BLUE	
9.2378.13-BULK	GREEN	PACK OF 4
9.2378.14-BULK	YELLOW	
9.2378.15-BULK	BLACK	
9.2378.16-BULK	AMBER	



P/N 9.2378.11-BULK P/N 9.2378.12-BULK P/N 9.2378.13-BULK P/N 9.2378.14-BULK P/N 9.2378.15-BULK P/N 9.2378.16-BULK



SCREW BOSS	
9.2330.17	PACK OF 4



MOUNTING SPACERS - DURALED® COMBI	
98071900	BLACK
98071901	WHITE

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

SHROUDS - DURALED® SURFACE MOUNT Part Number Colour Quantity 9.2053.08 (Nylon) BLACK SINGLE RED 9.2053.10-BULK 9.2053.11-BULK WHITE 9.2053.12-BULK BLUE PACK OF 4 9.2053.13-BULK GREEN YELLOW 9.2053.14-BULK 9.2053.15-BULK AMBER

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.



P/N 9.2053.11-BULK



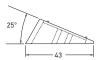








P/N 9.2053.10-BULK P/N 9.2053.12-BULK P/N 9.2053.13-BULK P/N 9.2053.14-BULK P/N 9.2053.15-BULK





ANGLE MOUNT - DURALED® SURFACE MOUNT		
9.2053.07	BLACK	SINGLE

-	86	-
31		

RIMS - DURALED® FLUSH MOUNT		
Part Number	Colour	Material
95968500	POLISHED	
95968502	GOLD PLATED	316 STAINLESS STEEL
95968506	SATIN CHROME PLATED	SILLE
To suit marker and signal lamps with 29mm wide rim.		



P/N 95968500

SCREW CAPS - DURALED® FLUSH MOUNT		
Part Number	Colour	Quantity
9.2310.09-BULK	BLACK	
9.2310.10-BULK	RED	
9.2310.11-BULK	WHITE	
9.2310.12-BULK	BLUE	DACK OF /
9.2310.13-BULK	GREEN	PACK OF 4
9.2310.14-BULK	YELLOW	
9.2310.15-BULK	AMBER	
9.2310.16-BULK	GREY	



P/N 9.2310.11-BULK



Pack sizes of 50 available upon request.

P/N 9.2310.10-BULK P/N 9.2310.12-BULK P/N 9.2310.13-BULK P/N 9.2310.14-BULK P/N 9.2310.15-BULK P/N 9.2310.16-BULK

LED Combination Lamp Mounting Pack

Mounting pack to suit LED combination lamp P/Ns 2391, 2392L and 2392R.



Part Number 9.2391.08

EuroLED® Accessories

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



P/N 9.2366.08

COVERS		
Part Number	Colour	Quantity
9.2366.08	BLACK	SINGLE
9.2366.11	WHITE	SINGLE

MOUNTING SPACER		
95995200	BLACK	CINCLE
95995201	WHITE	SINGLE

	0	
P/N 9.2366.11	P/N 95995200	P/N 9.2366.17

SCREW BOSS		
9.2366.17	WHITE	PACK OF 4

DuraLED® Heavy Duty Marker Lamp Accessories



P/N 9.2058.10



P/N 9.2058.09

9.2058.09 SINGLE 9.2058.10 POLISHED

DuraLED® DT Lamp Accessories



P/N 9.2073.09



68

HOUSING	
9.2073.09	PACK OF 4

DT PLUG, WEDGE AND CONTACTS	
4960-P	2 POLE
4963-P	6 POLE



P/N 4960-P

Part Number 9.2394.08 FRAME 9.2394.09 Isomorphic spacer allows lamps to be surface mounted with the cable exiting any side of the spacer.

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

LED Combination Trailer Lamp Accessories

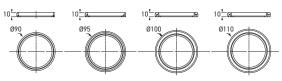
To suit LED combination lamp P/Ns 2394 and 2395.





P/N 9.2394.09

P/N 9.2394.08



Part Number	Diameter
98069600	90MM O.D
98069620	95MM O.D
98069640	100MM O.D
98069660	110MM O.D

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.



Jumbo-S Accessories

MOUNTING GASKET BASE	
Part Number	Quantity
9.2361.08	SINGLE

Accessories for the Jumbo-S LED lamp range.	





SCREW CAPS AND SCREWS	
9.2361.09	SET OF 4

HOUSING - SINGLE, DOUBLE AND TRIPLE MODULE Part Number 9.2041.09-BULK 9.2422.09 DOUBLE 9.2423.09 TRIPLE

SCREW CAPS		
9.5240.30	BLACK	50 PACK

Designline Accessories

Housings and screw caps for the Designline lamp range.





Number Plate Lamp Accessories

Mounting kit for number plate lamp P/N 2559. Includes a housing, cover, and screw bosses. One mounting kit is required per lamp.



MOUNTING KIT		
Part Number	Colour	Quantity
9.2559.09	BLACK	SINGLE
9.2559.19	WHITE	

MOUNTING SPACER AND EXTENDED SCREW BOSSES		
9.2559.08	BLACK	SINGLE

	BLA
--	-----

Plastic screw caps

BLACK PLASTIC SCREW CAPS	
9.5240.30	50 PACK

Surface Mount Strip Lamp Screw Caps



Part Number	Colour	Quantity
9.2652.09	WHITE	PACK OF 4
9.1009.09	CHARCOAL	

Marker and Courtesy Lamp Gaskets

Gaskets for narrow and wide rim LED courtesy lamps. Curved mount gasket (P/N 9GD 959 515-207) is designed to suit 64mm (2.5") pipes. Flexibility allows this particular gasket to suit a variety of curve radii.



P/N 9GD 959 515-127 (Rubber)



P/N 9GD 959 517-007 (Foam)

NARROW RIM (LAMP WIDTH 22MM)	
Part Number	Quantity
9GD 959 515-127	PACK OF 4
9GD 959 515-207 (Curved mount)	



P/N 9GD 959 515-207

WIDE RIM (LAMP WIDTH 29MM)	
9GD 959 517-007	PACK OF 4

Strip Lamp Gaskets

Gaskets for narrow and wide rim strip lamps.



P/N 9GD 959 155-507 (Foam)

NARROW RIM (LAMP WIDTH 26MM)	
Part Number	Quantity
9.5243.05	SINGLE

WIDE RIM (LAMP WIDTH 33MM)	
9GD 959 155-507	PACK OF 10

Part Number

9HB 161 122-007

DESIGN RING FOR 60MM MODULES (OPTIONAL)

60mm Accessories

Colour

SILVER

Accessories to suit 60mm lamps.

1	

P/N 9HB 161 122-007 Pushes over front of 60mm lamp and locks into place.

MOUNTING PLATE	
Part Number	Colour
9XD 161 119-007	BLACK



P/N 9XD 161 119-007 For front mounting of 60mm lamps.

TWO POLE PLUG (WITH TERMINALS AND SEALS)
Part Number
8JD 156 150-807



P/N 8JD 156 150-807

THREE POLE PLUG (WITH TERMINALS AND SEALS)
Part Number
8JD 162 581-802

DESIGN RING FOR LED RING LAMP (OPTIONAL)	
Part Number	Colour
9HB 163 085-012	CHROME



P/N 9HB 163 085-012 Design ring pushes over front of 112mm lamp and locks into place.



LED Safety DayLights™

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





Contents

LED Safety DayLights™

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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.







Low Beam Headlamps



HELLA LED Safety DayLights™

Low Beam Headlamps



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

HELLA LED Safety DayLights™



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



SETTING A STANDARD IN ROAD SAFETY

New Zealand's extensive roading network is used by millions of Kiwis every day. Statistically the risk of being harmed in a road accident is one of the highest severe injury risks we face every day.

Data from New Zealand's Ministry of Transport shows that thousands of crashes occur each year resulting in injury and fatalities. In 2012 there were 201 fatalities on our roads as well as 31.691 traffic related ACC claims.

The economic cost of road accidents to New Zealand has been calculated at some 3.14 Billion Dollars in 2011*, the majority occurring during daylight hours when visibility and conspicuity should be at its peak.

*source: Motor Vehicle Crashes in New Zealand. Ministry of Transport, 2011, 2012 / ACC Claims Statistic 2012.

Worldwide Studies

The effectiveness of Safety DayLights™ (DRLs) has been studied extensively worldwide and their mandatory use being adopted into legislation in most European countries.

Benefits of LED Safety DayLights™

- → Low power consumption.
- → Advanced UV resistant material.
- → 5 year warranty.
- → Approved for use in New Zealand and Australia.



SAFETY DAYLIGHTS™ SMART CONTROLLER DESIGNED TO SIMPLIFY INSTALLATION

HELLA's Safety DayLights™ Smart Controller is designed to simplify the installation of Safety DayLights™ by eliminating the need to connect the lamp, or changeover relay, to ignition terminal 15. The vehicle's ignition feed is typically used as a signal to turn Safety DayLights™ ON. Correctly identifying terminal 15 (Ignition) in the engine bay can be a difficult task on some vehicles, requiring specialised tools and in some cases the only solution is to route the wiring back through the fire wall into the vehicle cabin. This procedure can greatly increase the time and cost it takes to install Safety DayLights™. It can also be a daunting experience for the DIY-er not familiar with the electronic complexity of the modern vehicle.

The Safety DayLights™ Smart Controller reduces the installation complexity as it is directly connected to the positive terminal of the battery where it will sense that the vehicle engine has been activated.

The Safety DayLights™ Smart Controller uses advanced electronics that constantly monitor the voltage of the battery and other tell tale signs that the engine has been started. It will automatically switch the Safety DayLights™ ON. It will deactivate the Safety DayLights™ when the headlamps are turned ON or the engine is turned OFF (after a small delay).

MINIMISING ENVIRONMENTAL IMPACT

HELLA LED Safety DayLights[™] are a durable, environmentally-friendly investment into road safety.

Energy Efficiency

HELLA LED Safety DayLights™ use less than 5 watts per pair, equating to 95% less energy than the Dipped Headlamps of your vehicle.

Q: Why is a safer light using so much less energy?

A: LED Safety DayLights[™] are designed to direct light at other road users and not onto the road in front of the vehicle as Dipped Beam Headlamps do.

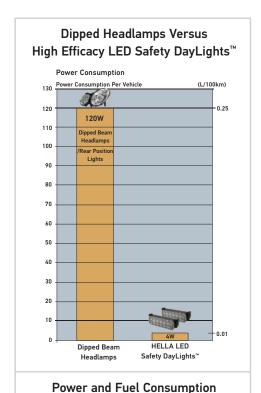
Q: Will this save me petrol compared to using my headlamps?

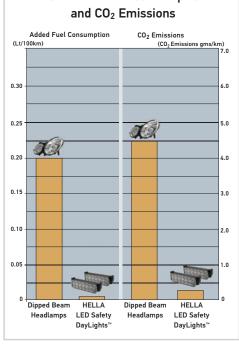
A: Studies have shown that the average family car will save as much as 0.2 litres of petrol per 100km. For the entire New Zealand fleet this equates to a reduced environmental impact of over 100,000 tons per year of CO_2 emissions.

Q: What about my headlamp bulbs?

A: Using highly effective Safety DayLights[™] instead of your Dipped Beam Headlamps, will of course also extend the life of your valuable headlamp bulbs.







LED Safety DayLights™ Kit

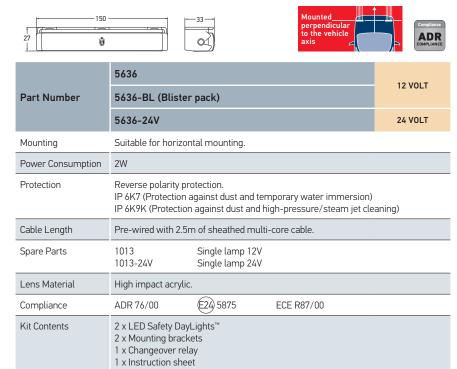
- Easy-Fit

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.





P/N 5636-BL



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.





P/N 5630-BL

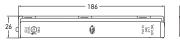
27	15°	ECE CERTIFIED
	5630	
Dank Namelan	5630-BL (Blister pack)	12 VOLT
Part Number	5630-24V	
	5630-24VBL (Blister pack)	24 VOLT
Mounting	Suitable for horizontal mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cle	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	High impact acrylic.	
Compliance	E24 5863 ECE R87/00	
Kit Contents	2 x LED Safety DayLights™ 2 x Mounting brackets 1 x Changeover relay 1 x Instruction sheet	
See page 83 for front po	sition relay option.	

-37 ---1

See page 83 for front position relay option.







	*	39
W S S S S S S S S S S S S S S S S S S S	TW. 42 Sale DOT 004.	

	5631	12 VOLT
Part Number	5631-BL (Blister pack)	12 VOLI
	5631-24V	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 cle	aning).
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	High impact acrylic.	
Compliance	E24 5862 ECE R87/00	
Kit Contents	2 x LED Safety DayLights [™] 2 x Mounting brackets 1 x Changeover relay 1 x Instruction sheet	
See page 83 for front po	osition 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.



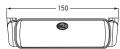


P/N 5631-BL











Part Number	5617		
Part Number	5617-0E		
Mounting	Suitable for horizontal mounting.		
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 Pre-wired with 0.5m of multi-core cable. 5617-OE Pre-wired with 2.5m of multi-core cable.		
Lens Material	Grilamid [®]		
Compliance	ADR 76/00	E24) 0002	ECE R87/00
Kit Contents	P/N 5617 kit cor 2 x LED Safety D 1 x Professional and super seal c 4 x Mounting bra 1 x Instruction sl	ayLights™ wiring harness onnectors ickets	P/N 5617-0E kit contains: 2 x LED Safety DayLights™ with 2.5m sheathed multi-core cable. 4 x Mounting brackets 1 x Instruction sheet

LED Safety DayLights™ Kit - Rectangular

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 (+).





P/N 5617 Wiring harness and super seal connectors.



P/N 5617

P/N 5617-0E

LED Safety DayLights™ Kit - Recess 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.











Part Number	5618	12 VOLT	
Part Number	5618-24V 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 cl		
Cable Length	Pre-wired with 2.5m of multi-core cable.		
Spare Parts	1005 Single lamp 12V 1005-24V Single lamp 24V		
Lens Material	Grilamid*		
Compliance	E24 0001 ECE R87/00		
Kit Contents	2 x LED Safety DayLights [™] 1 x Changeover relay 1 x Instruction sheet		

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

24	217 215 Mounted perpendicular to the vehicle axis	Certified GMD Certified ECE CERTIFIED
Part Number	1008	12 VOLT
Part Number	1008-24V	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 cle	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	

ECE R87/00

Lens Material

Compliance

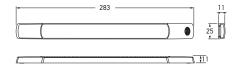
Grilamid®

ADR COMPLIANCE





5619 (Horizontal mount)



12 VOLT

3017 (Horizontal Hount)			12 VOLI
Part Number	5619-24V (Horizontal mount)		24 VOLT
Part Number	5619V (Vertical mount)		12 VOLT
	5619V-24V (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) 1009-24V Single lamp 24V (Horizontal mount) 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)		
Lens Material	Grilamid*		
Compliance	ADR 76/00		
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 83 for front po	sition relay option.		

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.





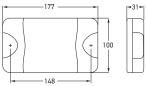
Ultra slim height of only 11mm. Lamp shown active.

Compliance ADR COMPLIANCE









	148
Part Number	1003
Mounting	Two hole recess mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	3W
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	Grilamid*
Compliance	ADR 76/00
See page 66 for DuraLE	D® accessories.

DuraLED[®] Safety DayLights[™]

LED DuraLED® Safety DayLights™ for trucks, commercial vehicles and buses.



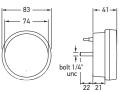
83mm Round LED Safety DayLights™

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™.





(P/N 1007-24V only)









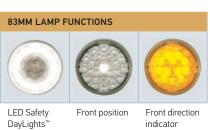
Don't Novel on	1006			12 VOLT
Part Number	1007-24V (Includes front position lamp)		24 VOLT	
Mounting	Flush mount. Single	bolt 1/4" stainless U	NC thread. Nut and wash	ner supplied.
Power Consumption	Safety DayLights [™] : Front position:	4W 1W (P/N 1007-24	V only)	
Protection	Reverse polarity and transient 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	Grilamid [®]			
Compliance	E24) 5854	ECE R87/00	ECE R7/02 (100	7-24V)
See page 69 for mounting	ng accessories.			

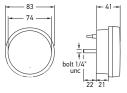
83mm Round LED Safety DayLights™/Front Position/ Front Direction Indicator Lamp

DayLights"

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







12 VOLT

Dart Number				
Part Number	2108-GMD24V			24 VOLT
Mounting	Flush mount. Single bol	lt 1/4" stainless UN	IC thread. Nut and wash	ner supplied.
Power Consumption	Safety DayLights [™] : Front position: Front indicator:	P/N 2108-GMI 3W 1W 4W	P/N 2108-GM 4W 1W 4W	ID24V
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	Grilamid [®]			
Compliance	ADR 6/00: Cat 1a ECE R6/01	ADR 49/00 ECE R7/02	ADR 76/00 ECE R87/00	E24) 5854
See page 69 for mounting accessories.				



Voltage

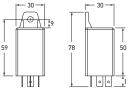
To Suit

Maximum

Part Number

Continuous Load





30	· "T\\"	11
systems.		

Features a Safety DayLights $^{\!\scriptscriptstyle{\mathrm{TM}}}\!$ OFF delay of approximately 10 seconds.

Multivolt™, suitable for 12 and 24 volt

HELLA LED Safety DayLights™ range.

3090

20W

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING
3A Max. Fuse 3A Max. 99 (CA)

WIRING SPECIFICATIONS		
Terminal Number	Connect to	
30	Battery (+)	
31	Earth return (-)	
86	Front position or headlamps (+)	
DL1 & DL2	2 Safety DayLights™ (+)	

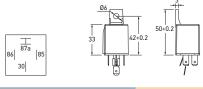
Safety DayLights™ Smart Controller

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.

Safety DayLights™ Smart Controller may not function on hybrid vehicles or vehicles with stop/start systems.





Part Number	9.5630.03		12 VOLT	
	9.5636.03		12 VOLI	
	9.5630.04		27.7017	
	9.5636.04		24 VOLT	
	To Suit	P/N 9.5630.03 P/N 9.5636.03 P/N 9.5630.04 P/N 9.5636.04	P/Ns 1009, 5619, 5630, 5631 P/N 5636 P/Ns 1009-24V, 5619-24V, 5630-24V, 563 P/N 5636-24V	31-24V

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING
3A Max. Fuse Geographic State of the control of th

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

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 $^{\mathbb{N}}$ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights $^{\mathbb{N}}$.

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





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

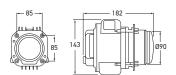
Headlamps and Inserts

90mm Universal Headlamps	86-87
Semi Sealed Headlamps and Housings - 7" Round	88-89
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Headlamp Accessories	99
5 3/4" Conventional Sealed Beams	100
4 ½" Conventional Sealed Beams	101

Bi-LED 90mm Premium LED Module - 12/24 Volt

LED dipped/main beam headlamp featuring a generous spread of light and strong main beam for the open road. Low power consumption and ultra long life equates to economical running costs compared to a bulb lamp. Exceptional white light output and extremely homogeneous illumination for reduced driver strain which means greater safety.











Part Number	1032	
Voltage	Multivolt [™] for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Dipped beam: Main beam:	30W 60W
Spare Parts	9.1029.11 4983	Mounting frame 3 pole super seal plug set
Compliance	E1 3159	E1) 6189

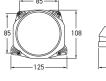


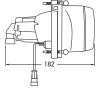
P/N 9.1029.11

H7 Bi-Halogen Headlamp

Compact H7 dipped/main beam headlamp. Pattern-free hardened glass lens and Free-Form (FF) cast aluminium reflector. Excellent light output and extremely homogeneous illumination with virtually no scatter. Straight-forward installation with 3 pre-mounted adjustment screws on the vehicle body.











Part Number	1LL 009 998-011	12 VOLT	
rait Nullibei	1LL 009 998-051		24 VOLT
Bulbs to Suit	12V 24V	CA1255 CA2470	
Spare Parts	9.1029.11 9.1534.05	Mounting frame Bulb connector	
Compliance	E1) 2484		





P/N 9.1029.11

P/N 9.1534.05

Headlamp Adjusters

Adjuster to suit 90mm headlamps.



Part Number	15297700 (Pack	H7 HEADLAMPS	
Part Number	25416300 (Pack	25416300 (Pack of 3)	
To Suit	P/N 15297700 P/N 25416300	H7 P/Ns 1029-24V and 1030-24V P/Ns 1029H1-24V and 1030H1-24V	



P/N 25416300



Part Number

Bulbs to Suit

Spare Parts

Compliance



1029H1-24V

1030H1-24V

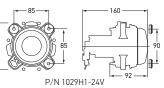
Position:

9.1029.10 (E1) 2397

Dipped/Main beam:

9GH 152 654-007

8JD 156 150-807



12V

C1255

HL124

Rear cap

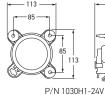
Mounting frame

24V

C2470

HL244

Two pole plug with terminals and seals





H1 Headlamp - 24 Volt

H1 headlamps with die cast aluminium reflector and hardened glass lens.



DIPPED BEAM
MAIN BEAM







P/N 9.1029.10

P/N 1030H1-24V



Part Number

Bulbs to Suit

Spare Parts

Compliance





1029-24V

1030-24V

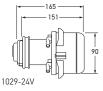
Position:

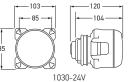
(E1) 917

Dipped/Main beam:

9GH 152 654-007

8JD 156 150-807 9.1029.09





-24V			1030-24V
			DIPPED BEAM
			MAIN BEAM
12V CA1255 HL124	24V CA2470 HL244		
Rear cap Two pole p Mounting		inals and seals	

H7 Headlamp - 24 Volt

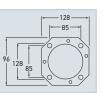
Compact H7 headlamps with glass lens for buses, coaches and mobile homes. Includes headlamp adjusters.











P/N 9.1029.09



P/N 1030-24V

P/N 9GH 152 654-007

P/N 8JD 156 150-807

P/N 9.1029.09

178mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with sealing cap.





Part Number Bulbs to Suit

Compliance



			CERTIFIED
1056			
Headlamp:	12V XD1260/55	24V XD2475/70	

Where front position lamp is required, use P/N 1058.

(E4) 53



Rear view

178mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp bulb holder (includes P/N HL124 bulb) and sealing boot.



Part Number	1058			
Bulbs to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244	
Compliance	(E4) 53			



Rear view

Part Number

Bulbs to Suit

Compliance

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 24 volt and high wattage bulb applications. Supplied complete with sealing boot and front position lamp bulb holder assembly.





Rear view



1058HD

Headlamp:

(E4) 53

Front position:

12V

HL124

XD1260/55

24V

HL244

XD2475/70







178mm Halogen Driving Lamp Insert

Suitable for use as high beam headlamp in most 178mm round headlamp carriers (eg. P/N 1016).



Part Number	9.1358.01	
Bulbs to Suit	12V 24V	YC1255 YC2470
Compliance	E1) 14529	





Part Number	1016	HEADLAMP HOUSING
rait Number	1017	CHROME RIM

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, Kenworth, Mack, White etc. Outer chrome rim (P/N 1017) to suit headlamp housing P/N 1016.



146mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp bulb holder (includes P/N HL124 bulb) and sealing boot. Suitable for dual headlamp systems.









Part Number	1055		
Bulbs to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244
Spare Parts	13839700 9GH 126 647-011	Front position bealing boot	oulb holder
Compliance	E1 17031		





Sealing boot 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 24 volt and high wattage bulb applications. Supplied complete with sealing boot and front position lamp bulb holder assembly.



Part Number	1055HD		
Bulbs to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244
Compliance	E1) 17031		





146mm H1 Halogen Low Beam Insert

Low beam insert with front position lamp bulb holder and sealing boot. Suitable for dual headlamp systems.



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Part Number	1054			
Bulbs to Suit	Headlamp: Front position:	12V C1255 HL124	24V C2470 HL244	
Spare Part	9GH 113 763-001	Sealing boot		
Compliance	E1 7076			



Rear view







146mm H1 Halogen High Beam Insert

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



Part Number	1053		
Bulbs to Suit	Headlamp:	12V C1255	24V C2470
Spare Part	9GH 113 763-001	Sealing boot	
Compliance	E1 14464		
Earth terminal is a 'Post' (bullet) type connection.			



146mm H1 Halogen Long Range Driving Insert

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

Part Number	1040		
Bulbs to Suit	Headlamp:	12V C1255	24V C2470
Spare Part	9GH 113 763-001	Sealing boot	

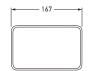




165 x 100mm H4 Halogen High/Low Beam Insert

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









Part Number	1044			
Bulbs to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244	
Spare Part	9FF 126 444-001	Front position	bulb holder	
Compliance	E1) 7197			



Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with sealing boot and wiring adaptor.



Part Number	1042		
Bulbs to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
Spare Part	9GH 126 647-011	Sealing boot	
Compliance	E1) 7197		





Rear view

Sealing boot

165 x 100mm H1 Halogen High Beam Insert

 $\label{eq:Semi-sealed} Semi-sealed\ headlamp\ with\ sealing\ cap.$



Part Number	1041		
Bulbs to Suit	Headlamp:	1 2V C1255	24V C2470
Compliance	E1) 24504		



Rear view

92

200 x 142mm H4 Halogen High/Low Beam Insert



Part Number	1043		
Bulbs to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244
Spare Parts	13839700 9GH 126 647-011	Front position b Sealing boot	ulb holder
Compliance	E1) 17009	E1) 17119	



Semi-sealed headlamp with front position lamp bulb holder (includes P/N HL124 bulb).



car view Scaling i

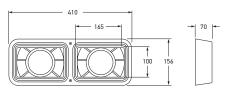
200 70 70

Part Number 1024

Rectangular Headlamp Housing

Suits 200 x 142mm rectangular headlamp units (P/N 1043). Ideal for truck, bus or body builders.





Part Number	1025	
Spare Part	9.1025.07	Chrome plated outer rim

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.



3-Series (E36) Compact 03/94 - 08/00







	HEADLAMP (HB3/HB4) WITH ELECTRIC LEVELLER			
Part Number	1LJ 007 143-051		LH	
	1LJ 007 143-061		RH	
Bulbs to Suit	Dipped beam: Main beam: Position:	CC1255 CB1265 W125		
Spare Parts	9ES 145 251-005 9ES 145 252-005	Cover lens LH Cover lens RH		
Compliance	LH RH	(E) 80 (E) 81		

3-Series (E36) 09/90 - 09/94







	HEADLAMP (H1)		
Part Number	1AL 007 045-011		LH
	1AL 007 045-021		RH
Bulbs to Suit	Headlamp: Position:	C1255 x 2 W125	
Compliance	E1 8026		

3-Series (E36) 12/90 - 08/00





	FOG LAMP (H1)		
Part Number	1NB 006 270-051	LH	
	1NB 006 270-061	RH	
Bulb to Suit	C1255		
Compliance	(E) 18236		

3-Series (E46) 02/98 - 09/01





	FOG LAMP (HB4)		
Part Number	1ND 007 646-011	LH	
	1ND 007 646-021	RH	
Bulb to Suit	CC1255		
Compliance	E13 305		



	HEADLAMP (BI-XENON")		
Part Number	1LL 160 695-001		LH
	1LL 160 696-001	1	RH
Bulbs to Suit	Dipped Beam: Main beam: Indicator:	D2S CA1255 RY1221	
Compliance	E1) 1490	E1) 1491	

5-Series (E60) 07/03 - 12/04

BMW 5-Series E60/E61 headlamp featuring Bi-Xenon® and Celis technology.







Part Number	2SK 008 679-811	SET
Compliance	E4 10139	

5-Series (E60) 07/03 - 03/07

Clear lens style tail lamps. Includes two tail lamp assemblies with instructions.



5-Series (E39) 09/00 - 06/04







	HEADLAMP (H7/H7) WITH ELECTRIC LEVELLER				
Part Number	1LL 008 053-591	LH			
	1LL 008 053-601		RH		
Bulbs to Suit	Headlamp: Indicator: Position:	CA1255 x 2 RY1221 YL1210			
Spare Part	9DX 153 746-011	Position lamp bulb holder			
Compliance	E1 1182				

Headlamp Adaptor Lead Set

To adapt headlamp P/Ns 1LL 008 053-591/-601 to E39 from 12/95 to 09/00. One set required per car.



Part Number	8KB 157 198-801	SET
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5-Series (E39) 09/97 - 08/00

Front fog lamps with H7 bulbs and Free-Form (FF) reflector.









	FOG LAMP (H7)			
Part Number	1NA 009 026-011	LH		
	1NA 009 026-021	RH		
Bulb to Suit	CA1255			
Compliance	E12) 19094			

5-Series (E39) 11/95 - 08/00

Innovative combination rear lamp with a brilliant appearance using the Celis light guide technology for the tail light function. The position light is produced by 8 red LEDs arranged in horizontal light guide strips.



Part Number	2VP 008 272-86	1	SET
Bulbs to Suit	Stop: Indicator:	R1221 RY1221	
Compliance	E1 1070	(E1) 1071	

5-Series (E34) 09/88 - 03/97 and 7-Series (E32) 09/88 - 05/94



Part Number	DIPPED BEAM LENS		MAIN BEAM (H1)	
	9BG 135 927-011		1K3 132 253-011	LH
	9BG 135 928-011		1K3 132 266-011	RH
Bulb to Suit	C1255			
Compliance	Dipped beam: Main beam:	E1 7407 E1 34572		



3-Series (E30) 01/83 - 08/87



Part Number	MAIN BEAM (H1)			
	1K3 126 046-001	LH		
	1K3 126 680-001	RH		
Bulb to Suit	C1255			
Compliance	(E) 14464			



3-Series (E30) 09/88 - 06/94



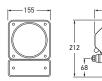
Part Number	DIPPED BEAM LENS	MAIN BEAM (H1)	
	9BG 135 941-011	1K3 134 855-011	LH
	9BG 135 942-011	1K3 134 856-011	RH
Bulb to Suit	C1255		
Compliance	Dipped beam: E1 7407 Main beam: E1 34572		



Headlamp/Front Direction Indicator/Front Position Lamp

Housing made of black impact and chemical resistant material. Suitable for 146mm (5 %") H4 headlamp inserts.







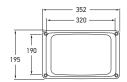


Part Number	1001		
Mounting	Suitable for horizontal and vertical mounting.		
Bulbs to Suit	Dipped/Main beam Indicator: Position:	12V : XD1260/55 R1221 HL124	24V XD2475/70 R2421 HL244
Spare Parts	1055 9.1001.01	Headlamp insert Lens - Indicator	
Compliance	Headlamp: Indicator:	E12 016086	

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 bulb replacement access. Ideal for truck, bus or body builders.











Part Number	1027		
Mounting	Simple four point mounting.		
Bulbs to Suit	Headlamp: Front position:	12V XD1260/55 HL124	24V XD2475/70 HL244
Spare Parts	9.1027.01 9.1027.02 9.1027.04	Clear lens Reflector Sealing cap	
Compliance	E1) 17016		

Headlamp VW Golf III (11/91 - 8/97)

Headlamp for vehicles with or without headlamp leveller.



Part Number	1LJ 006 360-	1LJ 006 360-671			
	1LJ 006 360-	681		RH	
Bulbs to Suit	Headlamp: Position:	CA1255 x 2 W125			
Compliance	LH:	E1) 27001	RH:	E1) 27002	

(E1) 44468

Headlamp VW Golf III (11/91 - 8/97)

Headlamp for use with H4 bulb.



D (N)	1LJ 007 235-251			LH
Part Number	1LJ 007 235-261	RH		
Bulbs to Suit	Headlamp: Position:	XD1260/55 W125		
Compliance	LH:	E1 17191	RH:	E1) 17192



(E1) 44469

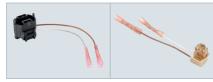
ECE

Bulb Connectors

Plug with pre-installed leads and crimp connectors (H1 and H7). Adapts to original wiring by crimp connector and heat shrink insulator, H4 version with 200mm leads (no connectors).

Part Number	4972-H1	H1
	4972-H4	H4
	4972-H7	H7





P/N 4972-H7

P/N 4972-H1

HID Gas Discharge (G3) Power Pack

Part Number	5DV 007 760-631	12 VOLT
Part Number	5DV 007 810-171	24 VOLT
To Suit	Bulb P/Ns D2S and D2R.	
See page 146 for HID work lamp power packs.		



HID Gas Discharge (G4) Power Pack

Part Number	5DV 008 855-001	12 VOLT
	5DV 008 856-001	24 VOLT
To Suit	Bulb P/Ns D1S and D1R.	
See page 146 for HID work lamp power packs.		



HID Gas Discharge Ignitor

Part Number	5DD 008 319-501	12 VOLT
To Suit	Bulb P/Ns D2S and D2R	



SEALED BEAM CHART BY DIMENSION			
146MM (5 %")			
Part Number	Voltage/Wattage	Description	Trade No.
1078	12V-60W	Flood	4478
1080	24V-80/60W	High/low	4579-2
1094	12V-100W	Long range	4537-2
1096	24V-60W	Flood	4578

114MM (4 ½")			
Part Number	Voltage/Wattage	Description	Trade No.
1085	12V-35W	Flood	4411
1087	12V-30W	Spot	4416
1089	12V-100W	Spot - long range	4509
1092	24V-50W	Spot	4505
1098	12V-40/40W	High/low	4440X

146mm Flood Lamp Beam

Flood lamp beam to suit construction and industrial machinery.





Part Number	1078
Trade Part No.	4478
Voltage	12V
Power Consumption	60W

146mm High/Low Beam

High/low beam to suit construction and industrial machinery.





3 contact lugs

Part Number	1080			
Trade Part No.	4579-2			
Voltage	24V			
Power Consumption	Dipped beam:	60W	Main beam:	80W
Not for road use as light pattern is for right-hand side traffic.				

146mm Long Range Beam

Search lamp/work lamp beam.





2 screw terminals

Part Number	1094
Trade Part No.	4537-2
Voltage	12V
Power Consumption	100W

146mm Flood Lamp Beam

Flood lamp beam to suit construction and industrial machinery.





2 contact lugs

Part Number	1096
Trade Part No.	4578
Voltage	24V
Power Consumption	60W

114mm Flood Lamp Beam



2 screw terminals

Part Number	1085
Trade Part No.	4411
Voltage	12V
Power Consumption	35W



Flood lamp beam to suit tractor applications.



2 screw terminals

Part Number	1087
Trade Part No.	4416
Voltage	12V
Power Consumption	30W

114mm Spot Lamp Beam

Spot lamp beam to suit hand held spot lamp P/N 1521 and automotive applications.





2 screw terminals

Part Number	1089
Trade Part No.	4509
Voltage	12V
Power Consumption	100W

114mm Spot Lamp/Long Range Beam

Spot lamp beam to suit hand held spot lamp P/N 1520.





2 screw terminals

Part Number	1092
Trade Part No.	4505
Voltage	24V
Power Consumption	50W

114mm Spot Lamp Beam

Spot lamp beam to suit hand held spot lamp P/N 1525.





3 contact lugs

Part Number	1098
Trade Part No.	4440x
Voltage	12V
Power Consumption	Dipped/Low Beam: 40W

114mm Spot High/Low Beam

High/low beam to suit tractor and automotive applications.





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FOG AND DRIVING LAMPS - INNOVATIVE LIGHTING TECHNOLOGY

HELLA Fog and Driving Lamps provide superior performance - both in distance and evenness of illumination, for enhanced On and Off-road safety.

For decades, professional drivers have chosen the superior performance of HELLA driving lights to increase the range and distance of their forward vision at night and in adverse weather conditions.

Driving for extended hours at night can be tiring. The use of good forward lighting has long been recognised as an effective approach to reduce driver fatigue and loss of concentration leading to dangerous situations for road users.

HELLA offers driving and fog lamps that suit even the most demanding applications, engineered to Original Equipment Manufacturer (OEM) standards and trusted by millions of motorists around the world.

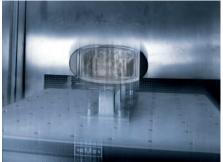
The superior performance of HELLA auxiliary driving lamps is confirmed time and again in independent tests in major international automotive magazines.

HELLA Quality Control

Before a new HELLA design is passed for production and sale, it has to pass stringent endurance tests. To ensure HELLA driving lights are fit for their purpose, tests are conducted with simulated real-life environments and driving conditions.









The following criteria must be passed before a new driving light is considered for production:

- Reliable performance in adverse conditions and extreme terrains.
 - HELLA driving lamps are vigorously tested through mud and water spray tests simulating off-road and cross country driving.
- → Harsh vibration and shock resistant. Vibration testing is performed with random as well as fixed frequencies, known to stress materials. This simulates unforgiving road conditions such as cobblestones and potholes.
- → Optimal performance in freezing cold and fierce heat.
 - The driving lamps are subjected to extreme temperature variations between $-40\,^{\circ}\text{C}$ to $+80\,^{\circ}\text{C}$ during testing to ensure they are capable in all weather extremes.
- → Watertight even in extreme weather.
 The driving lamps are subjected to water

spray at pressures of 4 bar to simulate driving through torrential rain.

Tips For Safer Driving • Ensure you always get a professional alignment after you change a headlamp, driving lamp, or bulb. • Always use a bulb of the recommended wattage in your driving lamps. Using a higher wattage bulb than recommended will only minimally increase the light performance but will substantially increase the generated heat. This may cause damage to lamp components. • Lights converted to Xenon discharge systems that are not designed for this technology is not recommended and can be illegal in certain on-road applications. • If you are 'blowing' bulbs regularly, and/or your lights are not as bright as they used to be, try fitting a relay. A relay will both protect your switch and electrical system, as well as assist in applying the design voltage to the bulb.





Scan the QR Code for the Eliver home page. QR Code reader needed.

ELIVERThe Online Comparison Tool

Eliver - our unique comparison tool helps you find the best possible fog or driving lamp for your application.

With Eliver, you can easily compare our best lamps online and get a realistic idea of performance.

Get the right lights for your everyday work.



www.hella.com/eliver

SAFER DRIVING WITH HELLA'S ADVANCED TECHNOLOGY



The use of good forward lighting has long been recognised as an effective approach to reduce driver fatigue

Lights with Parabolic Reflector Systems

These lights are designed with a reflector in the mathematically defined shape of a paraboloid. The reflector captures the luminous flux emitted by the bulb and projects this forward as an almost parallel light beam.

The specific light distribution is produced by optical lenses and prisms in the profiled cover lens which precisely directs the light to the area to be illuminated. Good optic design produces an even illumination whereas a spotty appearance is the result of poorly designed optics.

Efficient headlamps with parabolic reflector systems require a large reflector in order to capture the maximum luminous flux from the hulb

Lights with Free-Form (FF) Reflector Technology

Lights incorporating Free-Form (FF) technology are based on complex computer simulations. Over 50,000 (individual surfaces of the reflector are calculated and formed to precisely reflect the light to the road in front of the vehicle. The outer cover lens contains minimal optic elements.

A well designed headlight, based on Free-Form (FF) technology, produces an evenly lit area in front of the vehicle which significantly contributes to safer driving.

Micro DE

The functional principle of a DE (Diaxial Ellipsoid) lamp is similar to that of a slide projector. An ellipsoid Free-Form (FF) reflector directs the light to a focused glass lens which bundles and projects it onto the road. A shield positioned between the reflector and the lens provide a very sharp cut-off resulting in a concentrated light beam with defined edges ensuring a smooth light distribution with very little stray light. DE technology allows smaller dimensions with a higher luminance compared to a parabolic lamp.

Pencil Beam

The pencil beam driving light is designed for maximum long-range illumination, providing improved visibility of objects and traffic situations at great distance. This beam type is recommended for off-road vehicles where objects at a far distance must be recognised early to give the driver time to decide on a course of action.

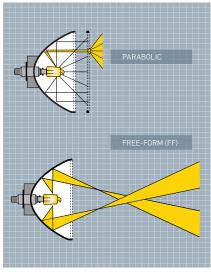
Spread Beam

The spread beam driving light provides effective illumination of both the area immediately in front of the vehicle and some distance ahead. This beam type is particularly suitable for road vehicles (e.g. trucks and buses) where fatigue-free driving is more important than recognising objects at a far distance.

HELLA Fog Lamps

Fog, rain or snow can reflect the light of standard driving lights into the driver's vision creating a dangerous glare which makes it difficult to recognise hidden hazards.

HELLA Fog Lamps are equipped with specially designed reflectors, which evenly illuminate the width of the road, providing you with a wide path of light for clearer visibility in close range to the vehicle. Particularly suitable for any vehicle driving through humid or moist areas where fog, rain or snow is common.



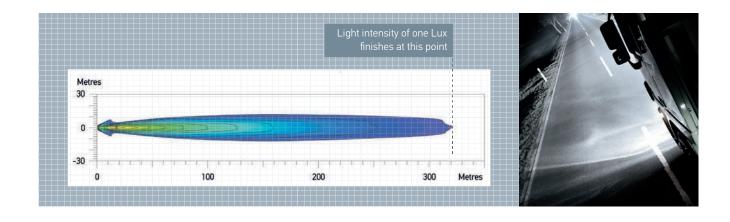
Lighting differences of the Parabolic and Free-Form (FF) lamps

MEASURING DISTANCE IN LIGHT

Isolux charts represent the beam pattern and the distance illuminated on a flat road surface using a single lamp.

The colour shades represent the distance in metres from the lamp. The dark blue shade indicates an illumination level of one Lux (320 metres in the shown diagram).

One Lux represents the intensity of the light of a full moon (under clear atmospheric conditions) or just sufficient light by which to read a newspaper.



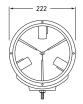
LED Luminator Spread Beam Driving Lamp

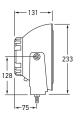
Equipped with innovative triple high-boost reflectors and state-of-the-art LED technology for all lighting functions, Luminator LED driving lamps deliver long lasting and extremely powerful light output, achieving an intense and consistent long-range illumination that is very similar to daylight, without harsh contrasts. Complete with clear cover P/N 8141.





Front view showing position lamp



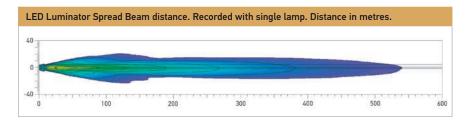








Part Number	1389	SPREAD BEAM
Mounting	Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	volts.
Power Consumption	Driving lamp: 30W Position lamp: 1W	
Protection	IP 5K9K (Protection against dust and high-pressure water jets). Not suitable for submersion	
Compliance	E) 3161	
Spare Part	9.1389.01 Driving lamp lens, reflector and LED light so	urce.



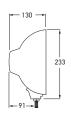
Rallye 4000 Accessories



	8125		PROTECTIVE COVER
Part Number	8141		CLEAR PROTECTIVE COVER
	8126		PROTECTIVE GRILLE
Spare Parts	9.1165.01 9.1365.01 9.1366.01 9.1366.02 9.1365.05 9.1366C.01BL 9.1389.01 9.1365.06 9.1365.07 9.1366C.07	Fog lamp insert Pencil beam insert Spread beam insert (optic lens) Spread beam insert (clear lens) Wiring loom Spread beam insert (blue lens) LED lamp lens and reflector Knurled screw set (2) Black lens retaining rim Chrome lens retaining rim	

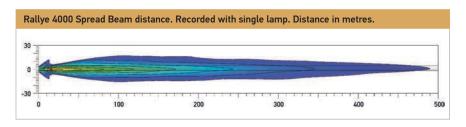
P/N 9.1365.05







Part Number	1366			SPREAD BEAM
Mounting	Upright or pendant	t.		
Power Consumption	Driving lamp: Position lamp:	55W 5W		
Bulbs to Suit	Driving lamp: Position lamp:	12V C1255 W125	24V C2470 W245	
Spare Part	9.1366.02	Spread bea	m insert (clear lens)	
Compliance	E1) 44484			



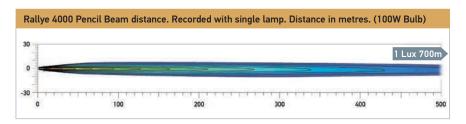
Rallye 4000 Spread Beam Driving Lamp

The Rallye 4000 spread beam features a sturdy zinc die-cast metal body and bracket for excellent strength and vibration resistance. The bracket has a large contact surface making the lamp stable in rough conditions. Suitable for professional, commercial and off-road drivers. Complete with protective cover P/N 8125 and allen keys.





Part Number	1365		PENCIL BEAM
Mounting	Upright or pendant		
Power Consumption	55W		
Bulbs to Suit	12V 24V	C1255 C2470	
Spare Part	9.1365.01	Pencil beam insert	



Rallye 4000 Pencil Beam Driving Lamp

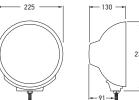
The Rallye 4000 pencil beam features a sturdy zinc die-cast metal body and bracket for excellent strength and vibration resistance. The lamp bracket has a large contact surface making the lamp stable in rough conditions. Suitable for professional, commercial and off-road drivers. Complete with protective cover P/N 8125 and allen keys.



Rallye 4000 Fog Lamp

The Rallye 4000 fog beam features a sturdy zinc die-cast metal body and bracket for excellent strength and vibration resistance. The bracket has a large contact surface making the lamp stable in rough conditions. Suitable for professional, commercial and off-road drivers. Complete with protective cover P/N 8125 and allen keys.









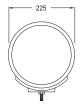


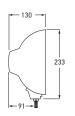
Part Number	1165		FOG BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1165.01	Fog lamp insert	
Compliance	E1) 18245		



P/N 8125 Protective cover









Part Number	1366CHROME			SPREAD BEAM
Mounting	Upright.			
Power Consumption	Driving lamp: Position lamp:	55W 5W		
Bulbs to Suit	Driving lamp: Position lamp:	12V C1255CB W125	24V C2470 W245	
Spare Parts	9.1366.02 9.1366C.07	Spread bear Chrome len	m insert s retaining rim	
Compliance	E1) 44484			

Rallye 4000 Chrome Spread Beam Driving Lamp

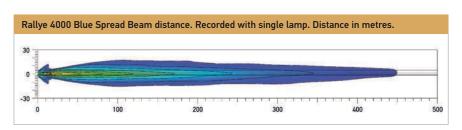
The Rallye 4000 spread beam driving lamp features clear glass optics and chrome plated zinc die-cast metal housing. Complete with protective cover P/N 8125 and Allen keys.







Part Number	1366C-BLUE			SPREAD BEAM
Mounting	Upright.			
Power Consumption	Driving lamp: Position lamp:	55W 5W		
Bulbs to Suit	Driving lamp: Position lamp:	12V C1255 W125	24V C2470 W245	
Spare Parts	9.1366C.01BL 9.1366C.07		am insert with blue lens ns retaining rim	
Compliance	E1 44484			



Rallye 4000 Chrome Spread Beam Driving Lamp

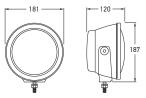
The Rallye 4000 spread beam driving lamp features blue clear glass optics and chrome plated zinc die-cast metal housing. Suitable for colourless bulbs only.



LED Luminator Compact Spread Beam Driving Lamp

Compact Luminator LED lamp with high performance LEDs for long range illumination.







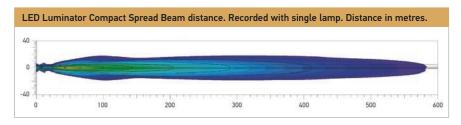




Part Number	1394		SPREAD BEAM
Mounting	Upright.		
Voltage	Multivolt [™] for opt	rimum brightness in 12 and 24 volt systems	
Power Consumption	Driving lamp:	11W	
Compliance	E1 3738		
Spare Part	9.1394.01	Driving lamp lens, reflector and LED light sou	ırce.



P/N 8120 Protective cover



Rallye 4000 Compact Fog Lamp

170mm compact version of the Rallye 4000 driving lamp, with clear Free-Form (FF) reflector lens design and sturdy zinc die-cast weatherproof black metal housing.





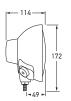






Part Number	1178		FOG BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	CA1255 CA2470	
Spare Part	9.1178.01	Fog lamp insert	
Compliance	E1) 1901		





Rallye 4000 Compact Spread Beam Driving Lamp

170mm compact version of the Rallye 4000 driving lamp, with clear Free-Form (FF) reflector lens design and sturdy zinc die-cast weatherproof metal housing.



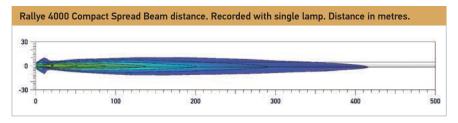


P/N 1378CHROME



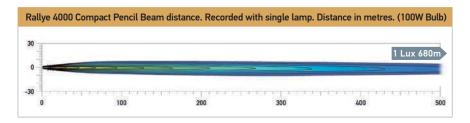


Part Number	1378		SPREAD BEAM
Part Number	1378CHROME		SPREAD BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	C1255 C2470	
Spare Part	9.1378.01	Spread beam insert	
Compliance	E1) 1901		



Bulb Included

Part Number	1380		PENCIL BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	C1255 C2470	
Spare Part	9.1380.01	Pencil beam Insert	

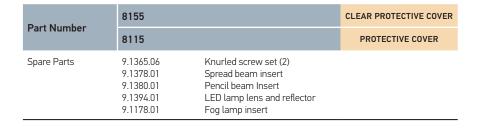


Rallye 4000 Compact Pencil Beam Driving Lamp

Pencil beam driving lamp with clear glass optics. Chrome plated zinc die-cast weatherproof metal housing.



Rallye 4000 Compact Accessories



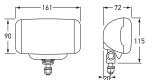


P/N 8155

Comet FF 450 Spread Beam Driving Lamp

H3 spotlight with black plastic housing. Complete with protective cover P/N 8XS 186 530-012.

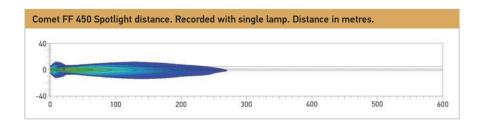








Part Number	1324		SPREAD BEAM
Mounting	Upright or pend	dant.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1324.01	Driving lamp insert	
Compliance	E1) 3221		



Comet FF 450 Fog Lamp

H3 fog lamp with black plastic housing. Complete with protective cover P/N 8XS 186 530-012.





Part Number	1124		FOG BEAM	
Mounting	Upright or pendant	Upright or pendant.		
Power Consumption	55W			
Bulbs to Suit	12V 24V	YC1255 YC2470		
Spare Part	9.1124.01	Fog lamp insert		
Compliance	E1) 3221			

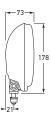
Protective Covers



P/N 8156

Part Number	8XS 186 530-012	PROTECTIVE COVER
	8156	CLEAR PROTECTIVE COVER





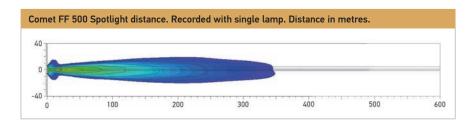
Comet FF 500 Spread Beam Driving Lamp

H3 spotlight with black plastic housing. Complete with protective cover P/N 8XS 186 531-012.



Certified	Bulb Include
ECE	12V
CERTIFIED	BULB INC

Part Number	1325		SPREAD BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1325.01	Driving lamp insert	
Compliance	E1) 3222		



Comet FF 500 Fog Lamp

H3 fog lamp with black plastic housing. Complete with protective cover P/N 8XS 186 531-012.







Part Number	1125		FOG BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1125.01	Fog lamp insert	
Compliance	E1) 3222		

Protective Covers

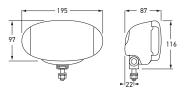
Part Number	8XS 186 531-012	PROTECTIVE COVER
	8157	CLEAR PROTECTIVE COVER



Comet FF 550 Spread Beam **Driving Lamp**

H3 spotlight with black plastic housing. Complete with protective cover P/N 8XS 186 532-012.

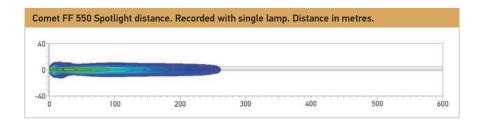








Part Number	1326		SPREAD BEAM
Mounting	Upright or penda	Upright or pendant.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1326.01	Driving lamp insert	
Compliance	E1) 3223		



Comet FF 550 Fog Lamp

H3 fog lamp with black plastic housing. Complete with protective cover P/N 8XS 186 532-012.



		BULB INC	CERTIFIED
Part Number	1126	FOG E	BEAM
Mounting	Upright or pendant.		
Power Consumption	55W		

Bulbs to Suit 12V YC1255 24V YC2470 9.1126.01 Spare Part Fog lamp insert Compliance E1) 3223

Protective Covers



Dont Number	8XS 186 532-012	PROTECTIVE COVER
Part Number	8158	CLEAR PROTECTIVE COVER



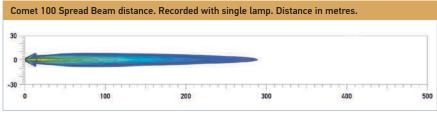


Comet 100 Spread Beam **Driving Lamp**

Spread beam driving lamp with modern clear hardened glass lens. The innovative Free-Form (FF) technology ensures concentrated light output. Complete with protective cover P/N 8100.



Part Number	1312		SPREAD BEAM
Mounting	Upright or penda	nt.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1312.01	Driving lamp insert	
Compliance	E1) 651		



Comet 100 Fog Lamp

Fog beam lamp with modern clear hardened glass lens. The innovative Free-Form (FF) technology ensures concentrated light output. . Complete with protective cover P/N 8100.







Part Number	1112		FOG BEAM
Mounting	Upright or penda	ant.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1112.01	Fog lamp insert	
Compliance	E1) 650		

Comet 100 Protective Covers

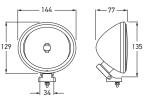




Comet 200 Spread Beam Driving Lamp

Spread beam driving lamp with modern clear hardened glass lens. The innovative Free-Form (FF) technology ensures concentrated light output. Complete with protective cover P/N 8101.









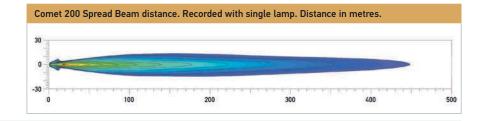
Part Number	1313		SPREAD BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1313.01	Driving lamp insert	
Compliance	E1) 646		

Comet 200 Spread Beam Driving Lamp

Modern 'cool blue' lens design version of P/N 1313. The light colour remains white. Complete with protective cover P/N 8101.



Part Number	1313-BLUE		SPREAD BEAM
Mounting	Upright.		
Power Consumption	55W		
Bulb to Suit	YC1255		
Spare Part	9.1313.01B	Blue lens driving lamp insert	
Compliance	(E1) 647		



Comet 200 Fog Lamp

Fog beam lamp with modern clear hardened glass lens. The innovative Free-Form (FF) technology ensures concentrated light output. Complete with protective cover P/N 8101.



Part Number	1113		FOG BEAM
Mounting	Upright or pendan		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1113.01	Fog lamp insert	
Compliance	E1 645		

Comet 200 Protective Covers

118

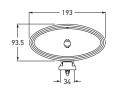


Part Number	8101	PROTECTIVE COVER	
Part Nu	ımber	8144	CLEAR PROTECTIVE COVER

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Comet 300 Spread Beam Driving Lamp

Spread beam driving lamp with modern clear hardened glass lens. The innovative Free-Form (FF) technology ensures concentrated light output. Complete with protective cover P/N 8102.

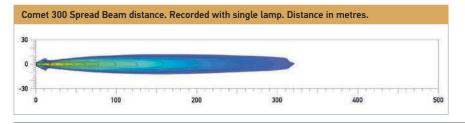


Part Number	1314		SPREAD BEAM
Mounting	Upright or pendant.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1314.01	Driving lamp insert	
Compliance	E1 649		





Part Number	1314-BLUE		SPREAD BEAM
Mounting	Upright or penda	nt.	
Power Consumption	55W		
Bulb to Suit	YC1255		
Spare Part	9.1314.01B	Blue lens driving lamp insert	
Compliance	E1) 649		



Comet 300 Spread Beam Driving Lamp

Modern 'Cool Blue' lens design version of P/N 1314. The light colour remains white. Complete with protective cover P/N 8102.







Part Number	1114		FOG BEAM
Mounting	Upright or pendan	nt.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1114.01	Fog lamp insert - white	
Compliance	E1) 648		

Comet 300 Fog Lamp

Fog beam lamp with modern clear hardened glass lens. The innovative Free-Form (FF) technology ensures concentrated light output. Complete with protective cover P/N 8102.



Comet 300 Protective Covers

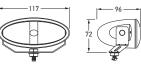
Dout Number	8102	PROTECTIVE COVER
Part Number	8145	CLEAR PROTECTIVE COVER



FF 50 Spread Beam Driving Lamp

Compact driving lamp featuring modern clear lens design and Free-Form (FF) reflector.

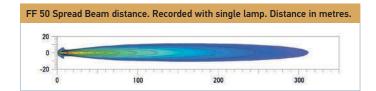




Part Number	1322	SPREAD BEAM	
	1322-BLUE	SPREAD BEAM	
	Mounting	Upright or pendant.	
	Power Consumption	55W	
	Bulb to Suit	CA1255	
	Compliance	(E1) 1210	



P/N 1322-BLUE



FF 50 Fog Lamp

Compact fog lamp featuring modern clear lens design and Free-Form (FF) reflector.



Part Number	1122	FOG BEAM
Mounting	Upright or pendant.	
Power Consumption	55W	
Bulb to Suit	CA1255	
Compliance	E1) 1209	

FF 50 Clear Protective Cover



Part Number

Mounting

Bulb to Suit

Compliance



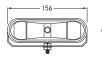
Power Consumption 55W

1323

CA1255 (E1) 1212

1323-BLUE

Upright or pendant.





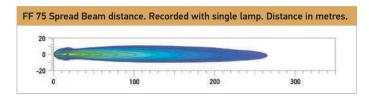
SPREAD BEAM

FF 75 Spread Beam Driving Lamp

Compact driving lamp featuring modern clear lens design and Free-Form (FF) reflector.



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P/N 1323-BLUE



Part Number	1123	FOG BEAM
Mounting	Upright or pendant.	
Power Consumption	55W	
Bulb to Suit	CA1255	
Compliance	(E1) 1211	

FF 75 Fog Lamp

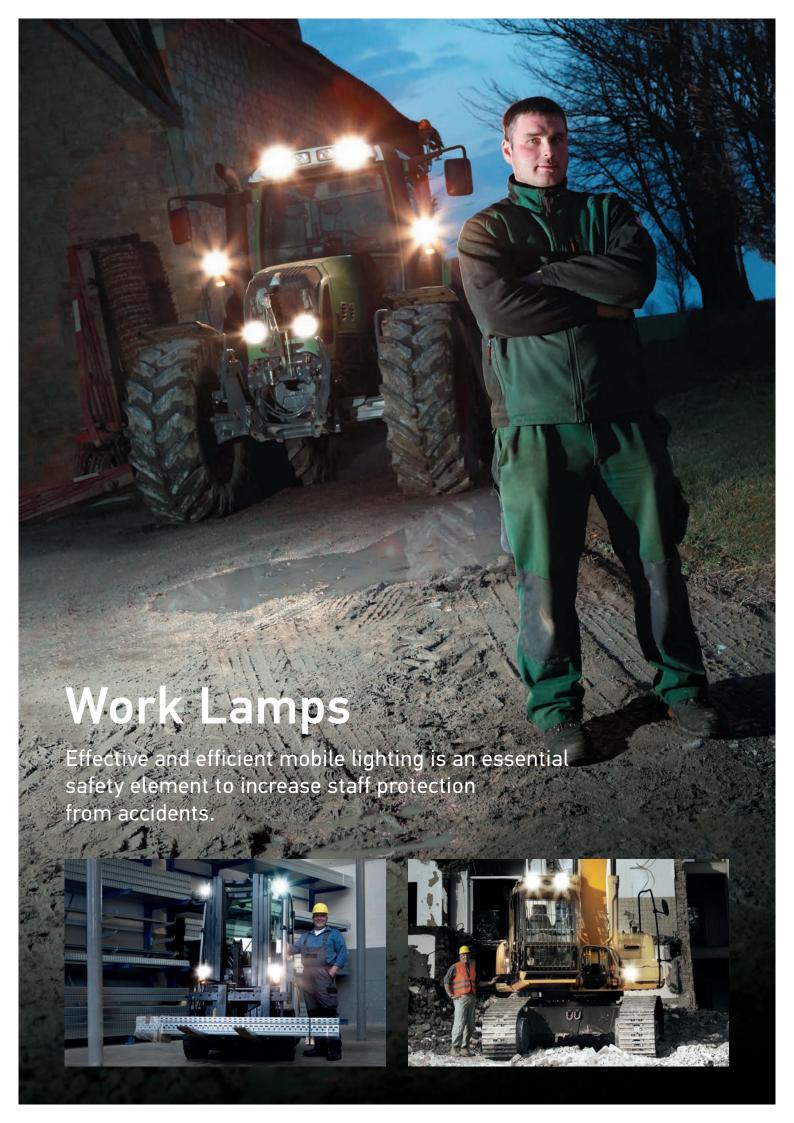
Compact fog lamp featuring modern clear lens design and Free-Form (FF) reflector.



FF 75 Clear Protective Cover

		Part Number	8148
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Whatever you drive, good lighting of the outdoor workplace is an essential safety element necessary to protect operators and valuable equipment from accidents.

A large percentage of New Zealand's productive workforce is employed in the outdoors and is susceptible to changes in environmental conditions.

To enhance productivity and maximise the returns on capital intensive farming equipment and machinery, working hours are extended into the night. In the case of road works on major arterial roads, work is conducted at night to avoid major traffic delays during daytime and particularly rush hour.

Good lighting of the outdoor workplace is an essential safety element and necessary to protect valuable equipment and operators from accidents.

The superior performance of HELLA work lamps is recognised by industry worldwide, with the largest agriculture and construction equipment manufacturers now specifying HELLA lighting as original equipment. In heavy duty work environments, LED work lamps offer decisive advantages over other lighting technologies. LED work lamps consume significantly less power than incandescent bulbs resulting in reduced strain on both alternator and battery. This makes LED work lamps the ideal lighting solution for work machines and equipment with low alternator performance or battery-assisted power supply.

LED Technology

- → Highly efficient light output
- → Low power consumption
- → Low maintenance
- → Ultra long service life
- → Multivolt[™]
- → Water and dust-proof
- → High resistance to vibration
- → Lower operating temperatures

All the advantages of modern LED lighting technology are fully utilised in HELLA work lamps.

The choice of LEDs, the power supply and thermal management of the work lamp are key factors in achieving optimum light output (lumen). The quality of the components used by HELLA ensures, for example, that the light remains at a constant level of brightness in a variety of harsh conditions.

Good thermal management is necessary to ensure a long service life. When an LED is illuminated, heat is produced. As the current is increased to the lamp, more heat is generated. As LED temperature increases, light output decreases and the service life reduces. Efficient design for maximum heat dissipation must be ensured. HELLA uses the latest simulation programs during product development to ensure optimal heat dissipation through the housing.

All HELLA LED work lamps are designed to provide reliable protection against the LEDs overheating. This guarantees long service life as well as consistent light output.

Do you know what the actual light output of your work lamp is?

Some LED work lamp manufacturers typically specify a light output without factoring in the impact of temperature, optical losses or other real world effects on light output performance.



This however, does not correspond to the actual effective light output of the work lamp. When these light values are cited, they are often unrealistically high. Such ratings are referred to as "calculated lumen" (clm) or "cold lumen".

The lumen ratings of all HELLA work lamps are always based on values obtained from measuring actual lamps. The lumen values correspond to the light that is actually emitted from the work lamp. HELLA LED work lamps emit their full output in ambient temperatures of up to 50°C .

What do GGVSEB and ADR stand for?



GGVSEB (previously GGVS) stands for the German

regulation on carriage of dangerous goods by road, rail and inland waterway.

This regulation transposes Directive 2008/68/EC of the European Parliament and Council of 24 September 2008 on the inland transport of dangerous goods.

Work lamps marked with this symbol are approved for mounting on transportation equipment which meets the regulations of GGVSEB/ADR.



How can you compare the Illumination of different work lamps?

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.

What is the difference between the different types of illumination?

Long Range

Narrow beam range designed to illuminate distant objects between 40m - 150m (depending on installation height and inclination angle).

Close Range

Spread beam designed to illuminate an area near the vehicle, range approx. 5m to 40m (depending on installation height and inclination angle).

Flood

Ultra wide spread beam designed to illuminate a large area adjacent to the vehicle, range up to 10m (depending on installation height and inclination angle).

Electromagnetic Compatibility (EMC)

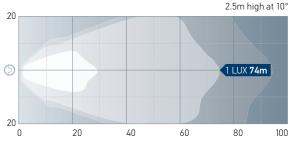
Electromagnetic Compatibility (EMC) is an increasingly relevant feature for emergency and signal warning lighting. As electronic devices become more common, so does the risk of unintended interference that can have adverse effects on other sensitive devices such as radios or communication equipment.

HELLA lighting products are designed and tested to reduce the possible risk of electromagnetic interference, both emissions as well as susceptibility, to limits defined in international standards.

As prescribed by New Zealand legislation, under circumstances, electronic products sold in New Zealand must be labelled with the C-tick or RCM marks. HELLA products are designed, tested and labelled to meet the requirements of this legislation

IP Ratings

See page 153 for full IP rating descriptions and what they mean.



Isolux Lighting Diagram

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



HALOGEN AND LED HEAD-TO-HEAD



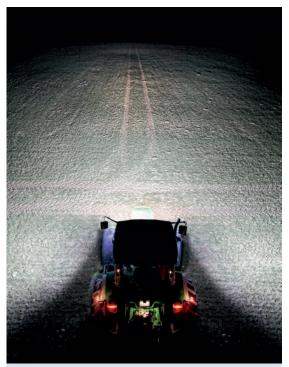
The Past:6 x halogen work lamps
Alternator load 27.5A



Upgrade Option 1:4 x halogen work lamps, 2 x LED work lamps
Alternator load 22.0A



Upgrade Option 2: 2 x halogen work lamps, 4 x LED work lamps Alternator load 16.5A

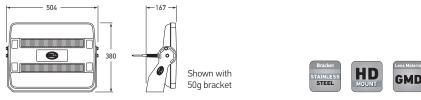


Upgrade Option 3: The Future 6 x LED work lamps Alternator load 11.0A

HypaLUME® LED Work Lamp - Heavy Duty

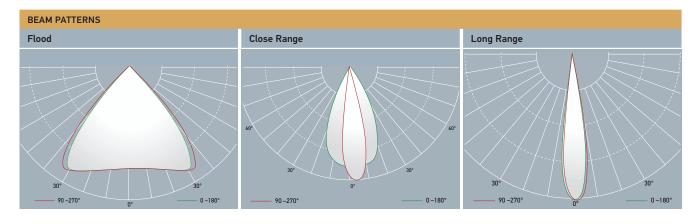
The HypaLUME® has been designed for multiple applications where high output LED lighting is required. 56 high power LEDs produce an output of more than 20,000 lumens while only consuming 240W at 24V DC. The LEDs have a colour temperature of 5700K to provide a near daylight environment and a Grilamid® lens protects the LEDs from environmental damage.



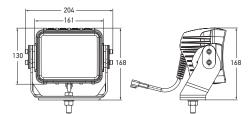


	HMF2000WM0B	FL00D	
Part Number	НМГ2000СМОВ	CLOSE RANGE	
	HMF2000LMOB LONG R		
Mounting	Upright or pendant.		
Voltage	Optimum brightness at input voltages from 18 to 52 volts.		
Power Consumption	240W 20000 lumen Reverse polarity and voltage spike protection. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Max. Light Output			
Protection			
Cable Length	Pre-wired with 1.8m of sheathed cable.		
Lens Material	Grilamid*		
Compliance	(€ ISO 13766 FCC CISPR25		

















		_	
Part Number	HM1500NBD	LONG RANGE	
	HM1500WBD	CLOSE RANGE	
Mounting	Upright or pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	60W		
Max. Light Output	Output 5000 lumen		
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)		leaning)	
Cable Length	Pre-wired with 200mm of sheathed cable and 3 pin DT socket.		
Lens Material	ens Material Grilamid®		
Compliance	(6		

AS 5000LED LED Work Lamp - Heavy Duty

The AS 5000LED is a high output, compact and highly versatile heavy duty work lamp for use on mining machinery. Multi-adjustable bracket ensures accurate, stable aiming in high vibration environments.







Side view

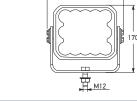
Rear view











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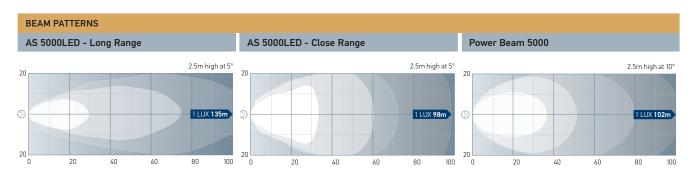


Part Number	1556	CLOSE RANGE
Mounting	Upright.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.
Power Consumption	70W	
Max. Light Output	x. Light Output 4500 lumen	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet clea	
Cable Length	Supplied with 2.5m of sheathed multi-core cable and DT plug.	
Spare Part	9.1549.05 Plug and lead	
Lens Material	Grilamid*	
Compliance	(€	

Power Beam 5000 LED Work Lamp - Heavy Duty

LED work lamp with 23 high performance LEDs for a powerful white light output rated at 4500 lumen, very similar to daylight. This guarantees excellent colour reproduction at night and supports sensory perception by the human eye.

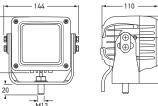




Power Beam 3000 LED Work Lamp - Heavy Duty

LED work lamp with 16 high performance LEDs for a powerful white light output rated at 3000 lumen, brighter than a standard 35W HID work lamp. Features robust aluminium die-cast housing, heavy duty stainless steel bracket and nylon lens for consistent close range illumination.











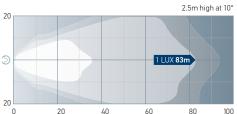


Part Number	1555-HD	CLOSE RANGE
	1555-HDLR	LONG RANGE
Mounting	g Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.
Power Consumption	43W	
Max. Light Output	3000 lumen	
Protection Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) Cable Length Pre-wired with 2.0m of sheathed twin core cable. Lens Material Grilamid*		•
Compliance	(E) (E	



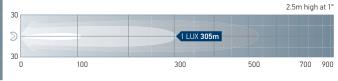
P/N 1555-HDLR

BEAM PATTERNS Power Beam 3000 - Close Range





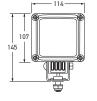
Power Beam 3000 - Long Range



Power Beam 2000 LED Work Lamp

LED work lamp with 16 high performance LEDs for a powerful white light output rated at 2200 lumen, over 50% brighter than a 55W H3 bulb, while consuming 20% less power. Features robust aluminium die-cast housing, stainless steel bracket and hardened glass lens for consistent close range illumination.











Part Number	1553	CLOSE RANGE
Mounting	Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	tion 43W	
Max. Light Output	2200 lumen	
Protection	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 2.0m of sheathed twin core cable.	
Compliance	(€	

BEAM PATTERN
Power Beam 2000

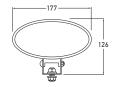
20

20 2.5m high at 10°











Part Number	1559	CLOSE RANGE
Part Number	1559-LR	LONG RANGE
Mounting	Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	28W	
Max. Light Output	2000 lumen	
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	Length Supplied with 2m of sheathed multi-core cable and DT plug.	
Spare Part	9.1549.05 Plug and lead	
Lens Material	Grilamid*	
Compliance	(€)	
See page 147 for work lamp accessories.		

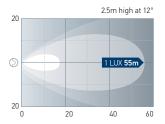
Oval 90 LED Work Lamp

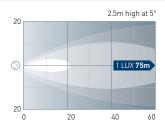
Oval 90 LED work lamp featuring 10 high performance LEDs for an intense light output rated at 2000 lumen. High quality aluminium housing and nylon lens. Suitable for close range or long range illumination.



BEAM PATTERNS

Oval 90 - Close Range





Oval 90 - Long Range



Power Beam 1500 LED Work Lamp

Premium LED work lamp with aluminium housing. Light output rated at 1300 lumen.













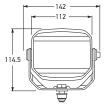
Part Number	1557	CLOSE RANGE
Mounting	Upright or pendant.	
Voltage Multivolt™ for optimum brightness at input voltages from		3 volts.
Power Consumption	22W	
Max. Light Output	1300 lumen	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion IP 6K9K (Protection against dust and high-pressure/steam jet c	•
Cable Length	Supplied with 2m of sheathed multi-core cable and DT plug.	
Spare Part	9.1549.05 Plug and lead	
Lens Material	Grilamid*	
Compliance	(€) (€	
See page 147 for work l	work lamp accessories.	

Power Beam 1500 LED Work Lamp - Heavy Duty

Premium heavy duty LED work lamp with aluminium housing. Light output rated at 1300 lumen. Suitable for heavy duty use.



P/N 1557-HD











2.5m high at 10°

80

100

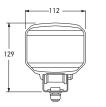
1 LUX **60m**

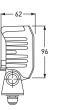


Part Number	1557-HD	CLOSE RANGE
Part Number	1557-HDLR	LONG RANGE
Mounting	Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	22W	
Max. Light Output	1300 lumen	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Supplied with 2m of sheathed twin core cable and DT plug.	
Spare Part	9.1549.05 Plug and lead	
Lens Material	Grilamid*	
Compliance	€ (€	
See page 147 for work l	47 for work lamp accessories.	

P/N 1557/1557-HD - Close Range 2.5m high at 10° 20 20 20 20 40 60 80 100 20 40







Part Number	1551	CLOSE RANGE
Mounting	Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.
Power Consumption	<18W	
Max. Light Output	out 850 lumen	
Protection Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam		leaning)
Cable Length	Supplied with 2m of sheathed twin core cable and DT plug.	
Spare Parts	9.1549.05 Plug and lead 9.1530.07 Stainless steel bracket	
Compliance	(€	
See page 147 for work lamp accessories.		

Power Beam 1000 LED Work Lamp

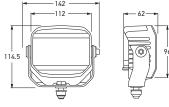
LED work lamp with 6 high performance LEDs for a powerful white light output. Features robust aluminium die-cast housing, stainless steel bracket and Free-Form (FF) reflector with clear lens for consistent close range illumination. Integrated Deutsch DT socket electrical connection.









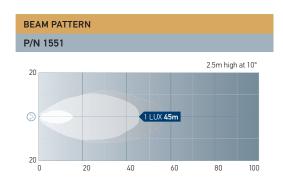


Part Number	1551-HD	CLOSE RANGE
Mounting Upright or pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.
Power Consumption <18W		
Max. Light Output	850 lumen	
Protection Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) Cable Length Supplied with 2m of sheathed twin core cable and DT plug. Spare Part 9.1549.05 Plug and lead		cleaning)
Compliance	(€	
See page 147 for work lamp accessories.		

Power Beam 1000 LED Work Lamp - Heavy Duty

LED work lamp with 6 high performance white LEDs for a powerful white light output. 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 Deutsch DT socket electrical connection.





Close Range M70 LED Work Lamp

M70 LED Multivolt™ work lamp features 4 high performance white LEDs providing consistent close range illumination and lamp protection with 12 or 24V systems. High-sheen metallised Free-Form (FF) reflector and clear glass lens. Housed in an impact resistant aluminium die-cast housing, fully sealed for an ultra long service life in demanding high vibration environments.











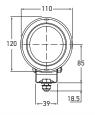
Part Number	1547-LED	CLOSE RANGE		
Mounting	Upright or pendant.			
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.		
Power Consumption	13W			
Max. Light Output	800 lumen			
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Supplied with 2m of sheathed cable.			
Compliance	(€)			

Part Number	CLOSE RANGE LED WORK LAMP - EXTENDED VOLTAGE		
Part Number	1547-LEDEV	CLOSE RANGE	
Voltage	Multivolt™ for optimum brightness at input voltages from 10 to 100 volts.		
Max. Light Output	600 lumen		
Other specifications as per P/N 1547-LED			

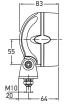
Close Range Mega Beam LED Work Lamp

Mega Beam Generation 3 LED Multivolt™ work lamps feature 4 high performance white LEDs 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.





BEAM PATTERNS







Part Number	1539-LED	CLOSE RANGE
Mounting	Upright with M10 bolt.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 volts.
Power Consumption	13W	
Max. Light Output	800 lumen	
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 c	•
Cable Length	Supplied with 2m of sheathed cable.	
Compliance	(€)	

P/N 1547-LED 2.5m high at 10° 20 (2) 20

40

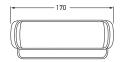












58 —	-
68 ①	55

	LONG RANGE	CLOSE RANGE	
Part Number	98095023	98095003	WHITE
	98095033	98095014	WARM WHITE
Mounting	Upright or pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	High intensity mode: 12W (1A@12V/0.50A@24V) Low intensity mode: 2W (0.17A@12V/0.08A@24V)		
Max. Light Output	650 lumen		
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	Grilamid*		
Compliance	C € Z208		

DuraLED® WL750 Work Lamp

Featuring an integrated dual intensity circuit, a high level of spike protection and energy efficient Multivolt™ technology, the innovative DuraLED® WL750 will appeal for applications where energy efficiency and reliability is a must. Features a tough, chemical resistant Grilamid® lens, a highly impact resistant Swiss-made crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as technologically advanced thermally conductive non-metal housing.







Friction mounts; easy adjustment without tools.

Completely sealed lamp/ cable entry. Marine grade stainless steel bracket.















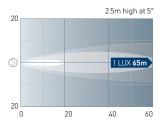
Don't Noveleau	SPREAD	WIDE SPREAD	
Part Number	98057310	98057300	WHITE
Mounting	Upright or pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	7W		
Max. Light Output	550 lumen		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (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	Grilamid*		
Compliance	(€ © Z208		

DuraLED® WL550 Work Lamp

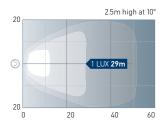
LED universal work lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant Grilamid® lens. Option of two light patterns, spread or wide spread.



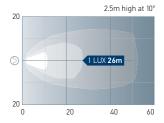
BEAM PATTERNS WL750 - Long Range



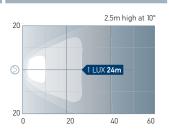
WL750 - Close Range



WL550 - Spread

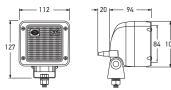


WL550 - Wide Spread



Halogen work lamp with Free-Form (FF) reflector for uniform close range illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External wiring connection. DT version with 2 pin Deutsch rear plug.









	1533	12 VOLT	
Part Number	1533-35W	12 VOLI	
Part Number	1533-24V	24 VOLT	
	1533-DT24V (With Deutsch DT plug)	24 VOL1	
Mounting	Upright, side or pendant mounting through swivelling the lamp U-shape four point fixing bracket with M10 screw for mounting and vertical surfaces.		
Power Consumption	12V - 55W/35W 24V - 70W		
Bulbs to Suit	12V YC1255, YC1235 (1533-35W) 24V YC2470		
Protection	IP 6K4K (Protection against dust and water splash) IP X9K (Protection against high-pressure jets)		
Spare Parts	9.1533.01 Insert 9.1533.05 Plug and lead 9.1533.08 Pedestal bracket 9.1530.07 Stainless steel bracket 9.1549.05 Deutsch plug and 2.5m of sheathed cable (DT)	

Close Range Halogen Work Lamp - Side Mount

As per P/N 1533 with side mount.





Not suitable for 100W bulbs.





Part Number	1533-SM	12 VOLT
	1533-SM24V	24 VOLT
Mounting	With M10 fixing screw for mounting on vertical surfaces.	

Vertical 90°

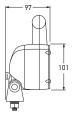
Other specifications as per P/N 1533.

Close Range Halogen Work Lamp

As per P/N 1533 with handle. P/N 1533-SW includes switch.







Inclination range:





Part Number	1533-HAN	12 VOLT
	1533-HAN24V	24 VOLT
	1533-SW (Includes switch)	12 VOLT

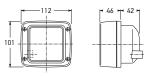
Other specifications as per P/N 1533.



P/N 1533-SW

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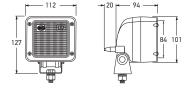
Part Number	1533-FM		12 VOLT
	1533-FM24V		24 VOLT
Mounting	Recess mount.		
Power Consumption	12V - 55W 24V - 70W		
Bulbs to Suit	12V 24V	YC1255, YC1235 YC2470	
Protection	As per P/N 1533.		
Spare Parts	9.1533.01 9.1533.05	Insert Plug and lead	

Halogen work lamp with Free-Form (FF) reflector for uniform close range illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External wiring connection. Suitable for recess mounting.









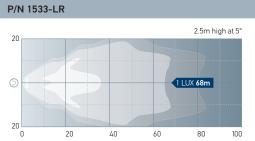
Part Number	1533-LR		12 VOLT
Part Number	1533-LR24V		24 VOLT
Mounting	Suitable for upright, side or pendant mounting through swivelling the lens unit 90°. U-shape bracket with M10 screw for mounting on horizontal and vertical surfaces.		
Power Consumption	12V - 55W 24V - 70W		
Bulbs to Suit	12V 24V	YC1255, YC1235 YC2470	
Protection	As per P/N 1533.		
Spare Parts	9.1533.03 9.1533.05 9.1533.08 9.1530.07	Insert Plug and lead Pedestal bracket Stainless steel bracket	
Not suitable for 100W bulbs.			

Long Range Halogen Work lamp

Halogen work lamp with Free-Form (FF) reflector for long range, uniform illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External wiring connection.

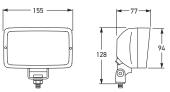






Halogen work lamp with black fibre reinforced ABS housing and Free-Form (FF) reflector for close range, uniform illumination.





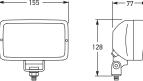


Part Number	1519		12 VOLT
	1519-24V		24 VOLT
Mounting	Upright or pendant		
Power Consumption	12V - 55W 24V - 70W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Protection	IP 5K4K (Protection against dust and water splash)		
Spare Part	9.2859.02	FF insert	
Not suitable for 100W bulbs.			

Close Range Halogen Work Lamp

Halogen work lamp with black fibre reinforced ABS housing, stainless steel bracket, bolts and lens screws. Free-Form (FF) reflector for close range, uniform illumination.





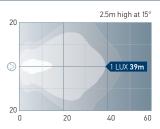
Part Number

Not suitable for 100W bulbs.

	STAINLESS STEEL BU
1519-SS	12 VOLT
1510_CC2/.V	2/, VOLT

	1519-55240		24 VOLI	
Mounting	Upright or pendant	Upright or pendant.		
Power Consumption	12V - 55W 24V - 70W			
Bulbs to Suit	12V 24V	YC1255 YC2470		
Protection	IP 5K4K (Protection against dust and water splash)			
Spare Part	9.2859.02	FF insert		

BEAM PATTERN P/N 1519







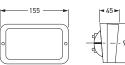


Part Number	1519-SM		12 VOLT
Part Number	1519-SM24V		24 VOLT
Mounting	Side mount.		
Power Consumption	12V - 55W 24V - 70W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Protection	IP 5K4K (Protection against dust and water splash)		
Spare Part	9.2859.02	FF insert	
Not suitable for 100W bulbs.			

Halogen side mount work lamp with black fibre reinforced ABS housing and Free-Form (FF) reflector for close range, uniform illumination. Universal side bracket with M10 mounting screw for attachment to vertical surfaces.







Part Number	2860-BLACK		12 VOLT
Mounting	Recess mount - fro	ont inclination +/- 5 degrees.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Protection	IP 5K4K (Protectio	n against dust and water splash)	
Spare Part	9.2859.02	FF insert	
Not suitable for 100W bulbs.			

Close Range Halogen Work Lamp

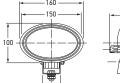
Halogen work lamp with recess mount black fibre reinforced ABS housing and Free-Form (FF) reflector for close range, uniform illumination.



Close Range Oval 100 Halogen Work Lamp

Oval 100 Halogen work lamp with Free-Form (FF) reflector for close range, medium spread illumination. Uniform large surface illumination results in excellent working light. Sturdy housing design.









Part Number	1540		12 VOLT
	1540-24V		24 VOLT
Power Consumption	12V - 55W 24V - 70W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Protection	IP 5K4K (Protection	n against dust and water splash)	
Spare Parts	9.1540.01 9.1533.05 9.1533.08 9.1530.07	Insert Plug and lead Pedestal bracket Stainless steel bracket	

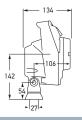
Not suitable for 100W bulbs. See page 147 for work lamp accessories.

Close Range Oval 100 Halogen Work Lamp with Handle and Switch

Oval 100 Halogen work lamp with solid alloy Free-Form (FF) reflector for close range illumination. Comes with handle and switch. Reinforced plastic housing and glass lens. Glass lens protected by extended rim. On-off switch conveniently positioned on the front of the lamp.





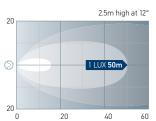




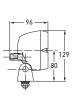
Part Number	1552	12 VOLT	
Mounting	Upright with fou	r point fixing bracket.	
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Spare Part	9.1540.01	Insert	
New witch to face 100 M bulls			

Not suitable for 100W bulbs.

BEAM PATTERN P/N 1552







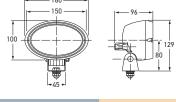
Halogen work lamp with Free-Form (FF) reflector and clear glass lens for close range, wide spread illumination. Sturdy housing design.





Part Number	1541		12 VOLT
Part Number	1541-24V		24 VOLT
Mounting	Upright or pendant. Single bolt with tilt adjustment.		
Power Consumption	110W (2 x 55W)		
Bulbs to Suit	12V 24V	2 x YC1255 2 x YC2470	
Protection	IP 5K4K (Protection against dust and water splash)		
Spare Parts	9.1541.01 9.1530.07 9.1531.08	Close range insert Stainless steel bracket Pipe socket base	
Not suitable for 100W bulbs.			





Part Number	1542		12 VOLT
Part Number	1542-24V		24 VOLT
Mounting	Upright or pendant. Single bolt with tilt adjustment.		
Power Consumption	110W (2 x 55W))	
Bulbs to Suit	12V 24V	2 x YC1255 2 x YC2470	
Protection	IP 5K4K (Protection against dust and water splash)		
Spare Parts	9.1542.01 9.1530.07 9.1531.08	Long range insert Stainless steel bracket Pipe socket base	

Long Range Halogen Work Lamp

Halogen work lamp with Free-Form (FF) reflector for wide spread, long range illumination. The pattern free lens prevents scatter loss and avoids unwanted light reflections outside the illuminated area.



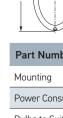
Close Range Oval 100 Double Beam Work Lamp

Oval 100 double beam Halogen work lamp with solid alloy Free-Form (FF) reflector for close range illumination. Has two distinct patterns for use with fork lifts and other lifting vehicles. Lower beam illuminates the roadway and the upper beam illuminates the load and/ or loading area. Sturdy glass reinforced plastic housing and glass lens.





Side view shown

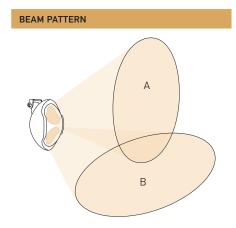






Part Number	1554		
Mounting	Pendant mounting with M10 mounting bolt.		
Power Consumption	12V - 110W (2 x 55W)		
Bulbs to Suit	12V 2 x YC1255 24V 2 x YC2470		
Protection IP 5K9K (Protection against dust and high-pressure/steam je		leaning)	
N. A. I. C. 100W. II			

Not suitable for 100W bulbs.



Close Range Micro DE Halogen Work Lamp

Compact Micro DE (Diaxial Ellipsoid) Halogen work lamp for use in applications with limited mounting space. Concentrated close range illumination. Magnesium housing with U-shaped one point mounting bracket.



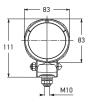


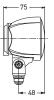




Part Number	1501	12 VOLT	
Mounting	Upright or pendant.		
Power Consumption	55W		
Bulbs to Suit	12V 24V	YC1255 YC2470	
Protection	IP 5K4K (Protection	against dust and water splash)	
Spare Part	9HD 149 253-007	Plastic cap with cable	
Not suitable for 100W bulbs.			







	1547	12 VOLT		
	1547-24V	24 VOLT		
Part Number	PENDANT MOUNT			
	1547-P	12 VOLT		
	1547-P24V	24 VOLT		
Mounting	P/Ns 1547 and 1547-24V suitable for upright mounting with M10 fixing screw. P/Ns 1547-P and 1547-P24V suitable for pendant mounting.			
Power Consumption	12V - 55W 24V - 70W			
Bulbs to Suit	12V YC1255 24V YC2470			
Protection	IP 5K9K (Protection against dust and high-pressure/steam jet cleaning)			
Not suitable for 100W bulbs.				

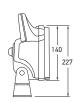
Close Range Halogen Work Lamp

Compact Halogen work lamp with a Free-Form (FF) brilliant round reflector. The non-patterned lens reduces light scatter and provides close range uniform illumination of the work area. Reflector made from die-cast aluminium. The lamp's ingenious bracket design allows it to be swivelled 360°, as well as the normal lateral adjustment.









Close Range Halogen Work Lamp

Work lamp with handle and switch. Black fibre-glass reinforced plastic housing with extended edge to protect lens.



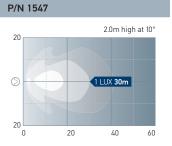




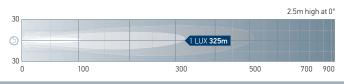
P/N 1512

	1511	12 VOLT		
Part Number	1511-24V	24 VOLT		
	LONG RANGE	COMBINATION RANGE		
	1512	1513	12 VOLT	
Mounting	Full swivel four point fixing bracket for mounting on flat or slightly curved surfaces.			
Power Consumption	12V - 55W 24V - 70W			
Bulbs to Suit	12V YC1255 24V YC2470			
Protection	IP 5K4K (Protection against	dust and water splash)		
Spare Parts	9.1511.01 Close range insert 9.1511.06 On-off rotary switch 9.1511.08 Mounting bracket assembly 9.1512.01 Long range insert 9.1513.01 Combination range insert			
Not suitable for 100W bulbs.				

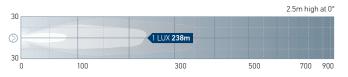
BEAM PATTERNS



P/N 1512 - Long Range



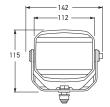
P/N 1513 - Combination Range

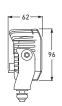


Power Beam 1000 LED Reversing Lamp

LED reversing lamp features 6 LEDs providing consistent illumination with 12 or 24V systems.













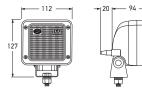


Part Number	1551-RE		
Mounting	Upright or pendant. Lamp inclination of 27° downwards.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 32 volts.		
Power Consumption	<18W		
Light Output	850 lumen		
Protection	Reverse polarity and Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Supplied with 2.5m of sheathed twin core cable and DT plug.		
Spare Part	9.1549.05 Plug and lead		
Compliance	(E) 36160		









Part Number	1533-RE24V	24 VOLT		
Mounting	Suitable for upright horizontal mounting. Single M10 mounting bolt with tilt adjustment. Inclination has to be 12° downwards.			
Power Consumption	70W			
Bulbs to Suit	12V YC1255 24V YC2470			
Protection	IP 6K4K (Protection against dust and water splash) IP X9K (Protection against high-pressure jets)			
Spare Parts	9.1533RE.01 Insert 9.1533.05 Plug and lead			
Compliance	E12 23005			
Fully compliant with 3rd edition ADR 1/00 reversing spot lamp. Not suitable for 100W bulbs.				

Reversing Spot Lamp

Reversing spot lamps with 70W bulb, approved for use in New Zealand. Provides 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 a broad and uniform illumination without harsh contrasts. Sturdy design and shock-proof plastic housing.





Mounting

Bulbs to Suit

Protection

Compliance

Part Number

Power Consumption



Upright.

21W

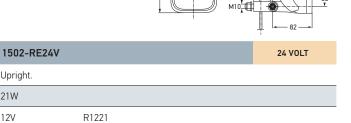
12V

24V

E4) 23262

R2421

IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)



Reversing Spot Lamp

ECO 21 reversing spot lamp with economical 21W bulb. Approved for use in New Zealand.



HID Gas Discharge Power Pack - G3

HID gas discharge power pack to suit Generation 3 (G3) work lamps and headlamps. For D2S and D2R bulbs.



Part Number	5DV 007 760-	12 VOLT	
	5DV 007 810-	171	24 VOLT
Spare Part	9.1534.05	2 pin connector, terminals and seals.	



P/N 9.1534.05

HID Gas Discharge Power Pack - G3

HID gas discharge power pack with alloy mounting bracket. To suit Generation 3 (G3) work lamps and headlamps. For D2S and D2R bulbs.



Part Number	9.1534.03		12 VOLT	
	9.1535.03		24 VOLT	
Spare Part	9.1534.05	2 pin connector, terminals and seals.		
See page 99 for HID headlamp power packs.				



P/N 9.1534.05

HID Gas Discharge Power Pack - G4

HID gas discharge power pack with plastic mounting bracket. To suit Generation 4 (G4) work lamps and headlamps. For D1S and D1R bulbs.



Part Number	9.1534G4.03		12 VOLT
Part Number	9.1535G4.03		24 VOLT
Spare Parts	9.1549.05 9.1534G4.06 9.1534G4.07	Deutsch plug and 2.5m sheathed cable Ballast lead - 1m Ballast lead - 3m	
See page 99 for HID headlamp power packs.			

www.hella.co.nz

Stainless Steel Bracket Assembly

Upper and lower stainless steel bracket and lamp mounting bolt. Suitable for 42mm wide lamp mounts.

Part Number	9.1530.07
To Suit	P/Ns 1533, 1534, 1535, 1540, 1541, 1542 and 1551.



Pedestal Bracket

Part Number 9.1533	33.08	Pedestal swivel bracket to suit most work lamps.
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Part Number 9.1531.08 Mounting Pipe socket mounting system. Allows work lamps be to be mounted on vehicles and removed again quickly. Features Integrated power feed is via the pipe socket. No separate wiring is necessary for the work lamp. Tightening the wing nut attaches the pipe socket attachment tightly to the base. Suitable for P/Ns 8007, 8007FM, 8007RA and 8008. To Suit P/Ns 1533, 1534, 1535, 1540, 1541, 1542 and 1551.

Ultra Beam Pipe Socket Base

Suitable for applications that require a removable work lamp.



Part Number 9.1533.05 To Suit P/N 1533

Plug and Lead

AMP - 2 pin plug and 150mm cable.



Part Number 9.1520.07 To Suit P/Ns 1520, 1521, 1522, 1523, 1524 and 1525.

Spiral Cable Complete Plug

Plug and 2m extendable sheathed cable.

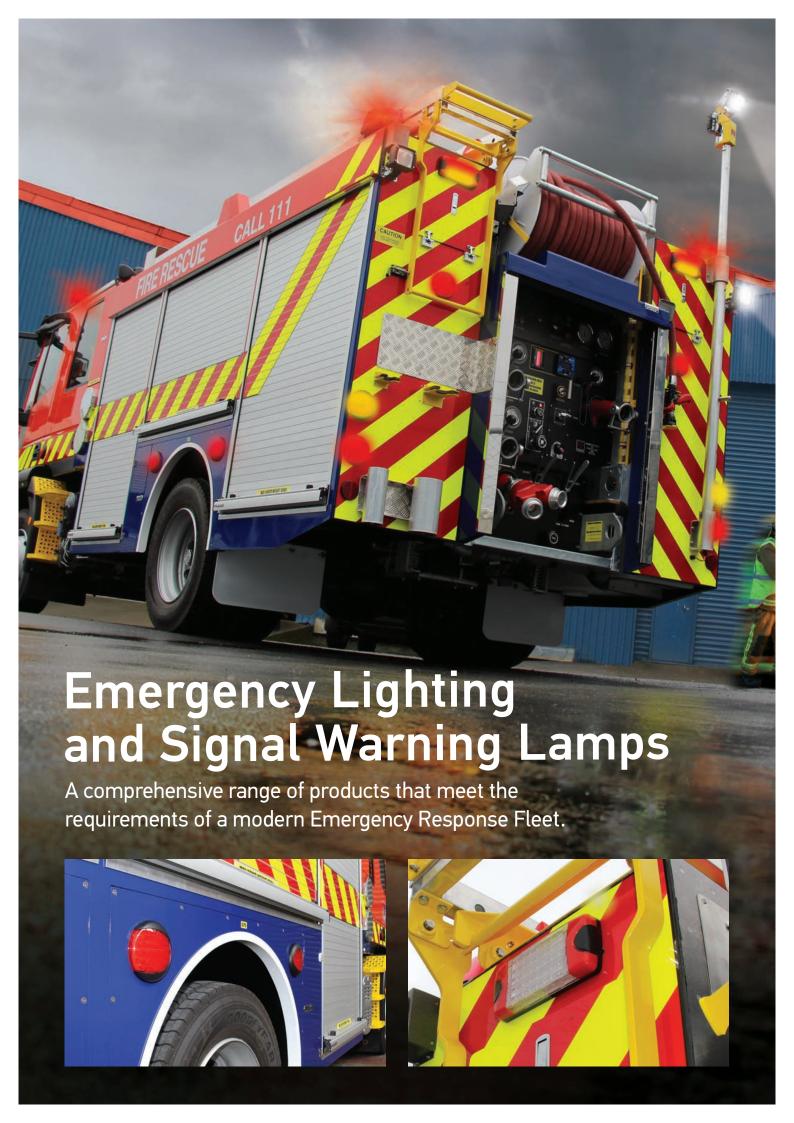


Part Number 9.1549.05 To Suit LED and HID work lamp P/Ns 1551, 1551-RE, 1556, 1557 and 1559.

Plug and Lead to Suit LED and HID Work Lamps

2 pin Deutsch plug and 2.5m sheathed cable.





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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.







HELLA's revolving and warning lamps, either in LED, bulb or strobe technology, offer choices of signal colour, luminous intensities, flash patterns and supply voltages, providing a complete range to suit most applications and performance requirements.

Light Technology

HELLA rotating beacons offer robust design and superior light performance. The high gloss, vapour-coated parabolic reflector and halogen bulb form an efficient optical system, maximising the light performance. The rotating light pattern is well recognised as a highly effective warning signal in all conditions, even in bright sunlight.

The design of the internal airflow prevents the light dome and reflector from accumulating condensation providing full functional safety at all times, while maintenance-free bearings and drive belt technology ensures smooth operation. Instant activation is ensured from ambient temperatures ranging from -40°C to $+60^{\circ}\text{C}$

LED High Intensity Emergency Lighting

High intensity LED signal warning lamps are specially designed for emergency services and specialist applications. Features include ultra long service life, reduced maintenance requirements, reliability and outstanding light performance.

The HELLA Multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternatively, as a sequenced running pattern or in unison.



Electromagnetic Compatibility (EMC)

Electromagnetic compatibility (EMC) is an increasingly relevant feature for Emergency and Signal Warning lighting.

As electronic devices become more common, so does the risk of unintended interference that can have adverse effects on other sensitive devices such as radios or communication equipment.

HELLA lighting products are designed and tested to reduce the possible risk of electromagnetic interference, both emissions as well as susceptibility, to limits defined in international standards.

As prescribed by New Zealand legislation, under circumstances, electronic products sold in New Zealand must be labelled with the C-tick or RCM marks. HELLA products are designed, tested and labelled to meet the requirements of this legislation



A cut away image showing the construction of the beacon and reflector.

Revolving Beacons

HELLA's revolving beacons are specified with a robust plastic housing. This material is lightweight and insulated.

Noise is effectively minimised in some lamps by utilising silver contacts and a drive belt system. Dual drive belts ensure the lamp remains fully operational even if one of the belts should fail.

HELLA revolving beacons feature corrosion resistant bulb holders. On some models bulbs can be replaced from the rear of the reflector, preventing damage to the highly polished and coated reflector.

HELLA's revolving lamps incorporate radio frequency (RF) suppression which reduces the potential for interference with on-board communication equipment.

Beacons and Optical Warning System Advantages:

- → Intense light output maximising warning light visibility and effectiveness.
- → Independent bulb socket system allows for simple, fast light source replacement without misalignment of the reflector.
- → Economic product solution low maintenance costs, minimal replacements required.

ELIVER THE ONLINE COMPARISON TOOL



Compare Beacons and Optical Warning Systems, Work Lamps, Auxiliary Head Lamps online.



Scan the QR Code for the Eliver home page. QR Code reader required.

www.hella.com/eliver

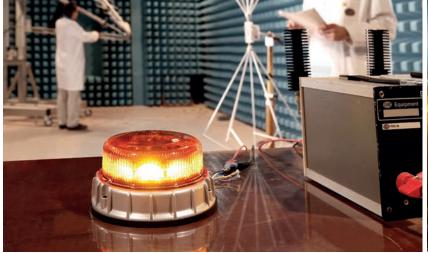
CAUTION: MOUNTING OF MAGNETIC BASE REVOLVING LAMPS

Due to environmental variances involved with vehicle acceleration and decceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles



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.

The 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 $+80^{\circ}\text{C}$.

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

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.



Designed, tested and protected for guaranteed performance and reliability.

IP Ratings

How well protected is a product against environmental influences? The IP protection class states how resistant the product is. The classes are defined in DIN 40050-9. HELLA products are designed for different degrees of protection:

First Digit			Second Digit	PROTECTION AGAINST LIG	UIDS	
0		-	Non-protected	0		Non-protected
1		50mm	Protected against solid foreign objects of 50mm diameter and greater.	1		Protected against drops of water falling vertically.
2		12.5mm ↓ ↑	Protected against solid foreign objects of 12.5mm diameter and greater.	2		Protected against drops of water falling vertically at up to 15° from the vertical.
3		2.5mm ↓ ↑	Protected against solid foreign objects of 2.5mm diameter and greater.	3		Protected against spraying water falling vertically at up to 60° from the vertical.
4		1.0mm +	Protected against solid foreign objects of 1.0mm diameter and greater.	4 4K		Protected against splashing water from all directions. With higher pressure.
5 5K			Dust-protected.	5		Protected against jet of water from all directions.
6 6K			Dust-sealed.	6 6K		Protected against powerful water jets. With higher pressure, specific for road vehicles.
				7	1 m	Protected against the effects of immersion. Protected against high-pressure cleaner, specific for road vehicles.
				8	1 m	Protected against prolonged effects of immersion under pressure to specified depth.
EN FC	EMERGENCY LIGHTING FOR ALL SITUATIONS			9K		Protected against high-pressure cleaner, specific for road vehicles.

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.





P/N 95903711

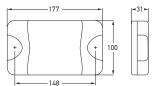
P/N 95903761





P/N 95903781

P/N 95903791







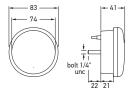
	95903701	RFD			
	73703701	KED			
	95903711 AMI				
Part Number	95903761	BLUE			
	95903781	GREEN			
	95903791	WHITE			
Mounting	Two hole surface mount with mounting bushes supplied.				
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.				
Power Consumption	9W continuous (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.				
Compliance	SAE J845 Class 1 (Red and amber versions) EMC e4	03 1925			
See page 66 for DuraLED® accessories.					

HELLA MULTI-FLASH LAMP OPERATING MODES				Multi-flash
Selectable Flash Patterns				
1 2 3 4 5 6 7 8 9				-
	250 ms	500 ms	750 ms	1 second

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 (-).		







D . N . I	95901140	RED	
	95901145	AMBER	
Part Number	95901160	BLUE	
	95901165	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.		
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		
See page 69 for mounting	ing accessories.		

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.









P/N 95901145

P/N 95901160

P/N 95901165











	98091100	WHITE		
	98091120	GREEN		
Part Number	98091140	RED		
	98091160	AMBER		
	98091170	BLUE		
Mounting	Upright mounting with three point mount.	Upright mounting with three point mount.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.			
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	Grilamid*			
Compliance	EMC e4 03 1679			
Lamps shown illuminated (right).				

LED 360° Multi-flash Signal Lamp

Multi-purpose LED 360° warning lamp with clear Grilamid° 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.







P/N 98091120

P/N 98091140





P/N 98091160

P/N 98091170

EuroLED® Signal Warning Lamp - 24 Volt

Low profile signal warning LED lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility.





P/N 95902181







Part Number	95902081	RED	
	95902181	AMBER	
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	20-28V		
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	EMC		

This lamp requires an external flasher unit such as P/N 3040. See page 68 for EuroLED® accessories.

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.





P/N 95907370



	12 VOLT	24 VOLT	
Part Number	95907360	95907365	BLUE
	95907370	95907375	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.		
This lamp requires an external flasher unit such as P/N 3040. See page 70 for strip lamp accessories.			

LED 360° Warning Lamp

Multi-purpose LED 360° warning lamps with Grilamid® lens available in four signal colours and white. Optics appear clear until illuminated.











	98091004	WHITE	
	98091024	GREEN	
Part Number	98091044	RED	
	98091064	AMBER	
	98091074	BLUE	
Mounting	Upright mounting with three point mount.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
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	Grilamid*		
Compliance	EMC e4 03 1679		
See page 155 for multi-flash versions. This lamp requires an external flasher unit such as P/N 3040.			





Part Number	95913610	AMBER
Mounting	Dash mount.	
Voltage	12V	
Power Consumption	3W	
Cable Length	Pre-wired with 2.5m of multi-core cable.	
This lamp requires an external flasher unit such as P/N 3040.		

LED Dash Mount Signal Lamp - 12 Volt

Inconspicuous LED warning lamp with an unobtrusive and aesthetic design allowing for permanent fitment, making it an ideal supplement to revolving or strobe lamps attached to the vehicle roof. Optic appears clear until illuminated in amber signal colour.



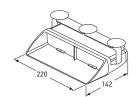


Don't Novelean	329000A	AMBER
Part Number	329000R	RED
Mounting	Mounting bracket or suction caps (included).	
Voltage	12V	
Power Consumption	19W	
Cable Length	Pre-wired with 2.7m of cable with switchable power plug.	

LED Viper™ S2 Signal Lamp - 12 Volt

Viper™ S2 advances auxiliary internal warning to a higher plateau with superior light output, easy-to-select flash patterns and simple pattern synchronization. The superior warning capability of Solaris™ reflector technology provides a bold array of light and impressive off-axis reflection. Phenomenal light output, versatile mounting options and simplistic product functionality make the Viper™ S2 product stand out in the warning light industry.





Part Number	329000AA	AMBER
Part Number	329000RR	RED
Mounting	Mounting bracket or suction caps (included).	
Voltage	12V	
Power Consumption	28W	
Cable Length	Pre-wired with 2.7m of cable with switchable power plug.	



Push button pattern selection makes selecting one of over 20 flash patterns simple.



Snap on guards attach or detach without requiring the use of hand tools and provide flash protection inside the vehicle.



The power plug option allows for instant installation and features an on/off switch for fast activation.

LED Viper™ S2 Signal Lamp - 12 Volt

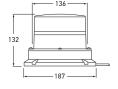
Viper™ S2 advances auxiliary internal warning to a higher plateau with superior light output, easy-to-select flash patterns and simple pattern synchronization. The superior warning capability of Solaris™ reflector technology provides a bold array of light and impressive off-axis reflection. Phenomenal light output, versatile mounting options and simplistic product functionality make the Viper™ S2 product stand out in the warning light industry.



LED UltraRAY® Warning Beacon

UltraRAY® LED beacons offer multiple, user-selectable flash patterns that suit a large variety of applications. Additional user selectable features include a battery saver mode to alert users if the equipment power supply drops below normal operating voltage levels to conserve power, as well as a daylight sensing that can automatically adjust the intensity of the beacon to ambient light levels.

A reverse gear circuit allows the flash pattern to be changed to alert staff of the travel direction of the equipment. UltraRAY* beacons are extremely robust, tolerant to severe vibration levels and very compact in design.







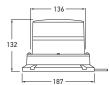
Part Number	27091001	AMBER	
Voltage	Multivolt™ 12-30V		
Power Consumption	20W max.		
Protection	IP 6K5K (Protection against dust and powerful water jets at increased pressure)		
Cable Length	Pre-wired with 200mm of cable.		
Compliance	SAE J845 Class 1		



LED UltraRAY® R Rotating Beacon

UltraRAY® R LED beacons feature user selectable 'rotating' or quad flash patterns. They are extremely robust, tolerant to severe vibration levels and very compact in design. UltraRAY® R LED warning beacons are maintenance free with no moving parts or fragile globes.





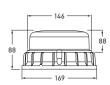




Part Number	27091071	AMBER
	27091091 (High output)	AMDER
Voltage	Multivolt™ 12-30V	
Power Consumption	20W max.	
Protection	IP 6K5K (Protection against dust and powerful water jets at increased pressure)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	SAE J845 Class 1	









	1614	AMBER			
Part Number	1614-MAG (Magnetic mount)				
	1616	RED			
Mounting	Fixed or magnetic mounting on horizontal surfaces.				
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 33 volts.				
Power Consumption	30W max.				
Protection	Reverse polarity and Transient Spike Circuit protection. IP 6K7 (Protection against dust and temporary water immersion)				
Flash Rate	Simulated rotation 120rpm (2.00Hz)				
Compliance	ECE R65 TA2	SPR25 Class 5			

K-LED 2 Beacon

K-LED low profile beacons are the ideal choice wherever beacons risk interference with radio communications. Featuring 20 high power LEDs providing high light output for best visibility. An automatic day/night sensor adjusts brightness to avoid glare discomfort at night. 14 different flashing and 2 rotating patterns.









DuraRAY3° Beacon

DuraRAY3° beacons are designed for mining and construction applications where the cost of equipment downtime is large and safety is paramount.



Part Number	2RL 011 585-001 AMBER			
Mounting	Fixed on horizontal surfaces.			
Voltage	Multivolt™ 9-33V			
Power Consumption	33W max. average			
Temperature Range	-20° to +50°C			
Protection	Overheat, reverse polarity and short circuit protection. Shock resistant to 200G. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Flash Rate	Simulated rotation 133rpm (2.22Hz)			
Compliance	CISPR25 Class 3 UL94HB			

Caution: Mounting of Magnetic Base Revolving Lamps

Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.

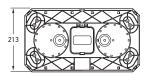
LED Highlighter™ Mini Light Bars

The Highlighter™ LED combines the high performance ROC™ (Reliable On-board Circuity) with the high efficiency Solaris™ reflector design. The innovative reflector design offers uniform 360° light distribution, which means no dark spots or shadows.





P/N 454218/454217





	12 VOLT	24 VOLT			
	454201A	454201A-24V			
Part Number	454205A (Economy)		AMBER		
Fait Number	454201AMAG (Magnetic base)				
	454201R	454201R-24V	RED		
	454201B		BLUE		
Flash Rate	20 selectable flash patterns.				
Current Draw	12V - 5.0A max. 24V - 3.0A max.				
Spare Parts	454217 Mount riser 52mm 454218 Mount flat 12mm 452341 Magnetic mounting kit 9.454201.07 Highlighter base 9.454201.02 Amber lens 9.454201.03 Blue lens 9.454201.04 Red lens 9.454201.05 Clear lens				
Compliance	SAE J845 Class 1				
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 159).					





EMERGENCY & SIGNAL

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS





	12 VOLT		24 VOLT		
Part Number	7415111		7211908		AMBER
	7211702		7211908-R		RED
Flash Rate	190 flashes per minute.				
Bulbs to Suit	12V 24V	2 x C1255 2 x C2470			
Spare Parts	7210897 7210989 7411010 Z8559A002B 7439234	Magnetic mount kit Lens retainer/plug kit Motor/reflector assembly 12V Worm gear - replacement Motor/reflector assembly 24V			
Compliance	SAE J845 Class 1				

Turbo Beam 56cm (22") Light Bar

Turbo beams are built from very highly reliable components to maximise their effectiveness in extreme conditions. They also feature impact-resistant polycarbonate domes and aluminium alloy extrusions to increase service life. In addition, the Turbo Beam's powerful rotators contain parabolic reflectors, providing exceptional performance and reliability.







P/N 7210989

P/N 7210897







	12 VOLT		24 VOLT		
Part Number	7415010		7211900		AMBER
	7211700		7211900-R		RED
Flash Rate	190 flashes per minute.				
Bulbs to Suit	12V 24V	2 x C1255 2 x C2470			
Spare Parts	7210897 7210989 7411010 Z8559A002B 7439234	Magnetic mount kit Lens retainer/plug kit Motor/reflector assembly 12V Worm gear - replacement Motor/reflector assembly 24V			
Compliance	SAE J845 Class 1				

Turbo Beam 38cm (15") Light Bar

Turbo beams are built from very highly reliable components to maximise their effectiveness in extreme conditions. They also feature impact-resistant polycarbonate domes and aluminium alloy extrusions to increase service life. In addition, the Turbo Beam's powerful rotators contain parabolic reflectors, providing exceptional performance and reliability.



P/N 7415010

LENSES FOR TURBO BEAM LIGHT BARS						
Lens	Left Hand	Centre	Right Hand			
Amber	P/N 7411187	P/N 7411177	P/N 7411167			
Red	P/N 7411189	P/N 7411179	P/N 7411169			
Blue	P/N 7411186	P/N 7411176	P/N 7411166			

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS

Revolving Beacon KL 7000

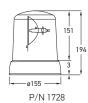
KL 7000 high performance revolving beacon with light values well above the minimum requirements. All KL 7000 beacons can be operated on 12 or 24V by changing the bulb. The halogen bulb is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.

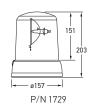


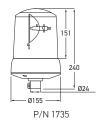




P/N 1729









Part Number	12 VOLT	24 VOLT		
	1728	1728-24V	AMBER	
	1727	1727-24V	RED	
	1726	1726-24V	BLUE	





	12/24 VOLT				
Part Number	1729 (Magnetic	AMPER			
	1735 (Flexibase	mount)	AMBER		
Current Draw	12V 24V	5.5A 3.5A			
Power Consumption	12V - 55W 24V - 70W				
Rotation	160rpm				
RF Suppression	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)				
Bulbs to Suit	12V 24V	C1255 C2470			
Spare Parts	9.1726.01 9.1727.01 9.1728.01 9.1728.01 9.1737.91 9.1726.23 9.1726.52 8007 8007RA 8007FM 8008	Blue lens Red lens Amber lens Two drive belts Reflector assembly Motor assembly 12/24V Connecting piece Connecting piece - right angle mount Connecting piece - flat mount Connecting piece - threaded			
Compliance	R65/00	(E1) 1241 [e1] 03 1740			

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 159). See page 169 for spare part images.







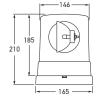


P/N 8007

P/N 8007FM

P/N 8007RA

P/N 8008



Revolving Beacon KL 700

KL 700 high performance revolving beacon. The halogen bulb is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. Twin belt drive ensures a smooth and quiet operation.





P/N 1653

Part Number	12 VOLT	24 VOLT	
		1720	BLUE
		1721	RED
	1724	1722	AMBER

Power Consumption 12V - 55W

24V - 70W

Rotation 160rpm VDE 0879, Class 3, FM 5. RF Suppression Bulbs to Suit 12V C1255 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	1653 9.1717.01 9.1718.01 9.1719.01 9.1724.01 9.1723.01 9.1725.02 9.1717.54 9.1720.54 9.1737.91 9.1717.23	Magnetic mounting kit Blue lens Red lens Amber lens (no optic lens) Amber lens Green lens Purple lens (Heavy haulage) Motor 12V Motor 24V Two drive belts Reflector base assembly
Compliance	R65/00	E2 88072

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 159). See page 169 for spare part images.

BULB



Don't Novel on	Part Number 1702		24 VOLT		
Part Number			1705		AMBER
Power Consumption	12V - 55W 24V - 70W				
Rotation	160 +/- 30rpm				
RF Suppression	VDE 0879, Class 3,	FM 5.			
Bulbs to Suit	12V 24V	C1255 C2470			
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)				sed pressure)
Spare Parts	9.1709.01 9.1708.01 9.1713.01 9.1717.54 9.1720.54 9.1737.91 9.1717.23 9.1717.52 9.1720.52	7.1708.01 Blue lens 7.1713.01 Amber lens 7.1717.54 Motor 12V 7.1720.54 Motor 24V 7.1737.91 Two drive belts 7.1717.23 Reflector base assembly 7.1717.52 Motor/reflector assembly 12V			
Compliance	R65/00	E4 6506		e4 03 2183	
See page 169 for spare	art images.				

Revolving Beacon KL 710

KL 710 high performance revolving beacon. The halogen bulb is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. Twin belt drive ensures a smooth and quiet operation.



Revolving Beacon KL Junior - Amber

Economy revolving beacon with gear drive and fixed halogen bulb.







	71724			12 VOLT		
Part Number	71722			24 VOLT		
	71723 (Bulb/s n	ot included)		12/24 VOLT		
Mounting	Three point mount	Three point mount. Horizontal mount.				
Power Consumption	12V - 55W 24V - 70W					
Bulbs to Suit	12V 24V	C1255 C2470				
Protection		n against dust and wat against high-pressure	er splashing with incre /steam jet cleaning)	ased pressure)		
Spare Part	9.71722.01	Amber lens				
Compliance	R65/00	E1) 6514	el 03 2182			

Revolving Beacon KL Junior, Magnetic Mount - Amber

Revolving beacon complete with magnetic base for quick and secure attachment to vehicle roof. Features a spiral cable and power socket.



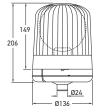


Part Number	71725 (Bulb/s n	ot included)		12/24 VOLT	
Rotation	160rpm				
Bulbs to Suit	12V 24V	C1255 C2470			
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)				
Spare Part	9.71722.01	Amber lens			
Compliance	R65/00	E1) 6514	el 03 2182		
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 159).					

Revolving Beacon KL Junior, Flexible Pipe Mount - Amber

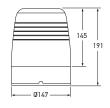
Revolving beacon with flexible housing base with a spring action allowing beacon to bend on impact. The polycarbonate lens is particularly resistant to impact damage. The base incorporates a spigot tube mount.





Part Number	71726 (Bulb/s not included)			12/24 VOLT	
Mounting	Must be used in cor 8007RA or 8008.	Must be used in conjunction with connecting piece P/N 8007, 8007FM, 8007RA or 8008.			
Rotation	160rpm	160rpm			
Bulbs to Suit	12V 24V	C1255 C2470			
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)				
Spare Parts	9.71722.01 8007 8007FM 8007RA 8008	Amber lens Connecting piece Connecting piece - fla Connecting piece - rig Connecting piece - th	ght angle mount		
Compliance	R65/00	E1) 6514	e1 03 2182		





	1797			12 VOLT
Part Number	1797-24V			24 VOLT
	1797-MAG (12 and 24V bulbs included)			12/24 VOLT
Power Consumption	12V - 55W 24V - 70W			
Rotation	180rpm			
RF Suppression	Conducted Class 3 (CISF	PR 25).		
Bulbs to Suit		255 470		
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)			
Spare Parts		nber acrylic lens ive belt		
Compliance	R65/00 E1	1419	e1 03 3954	
HELLA does not recomm	nend the magnetic base ve	ersion for use on a m	noving vehicle (see page	e 159).

Revolving Beacon KL Junior Plus - Amber

KL Junior Plus revolving beacon offers a belt drive, which enhances reliability, bulb life and lowers noise output. Light output has been improved with the halogen bulb being located in the reflector.





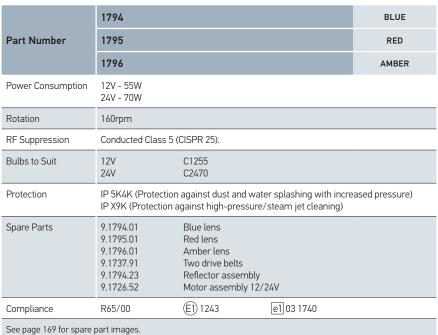
P/N 1797-MAG

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See page 169 for spare part images.



Revolving Beacon KL 8000 - 12/24 Volt

KL 8000 revolving beacon developed for large and heavy commercial vehicles. Particularly high light values guarantee utmost warning effectiveness and safety. Maximum smooth running thanks to the maintenance-free drive bearings and twin-belt technology.



Rotoflex Revolving Beacon

- Amber

Rotoflex revolving beacon with polycarbonate lens and flexible rubber base.





P/N 8007

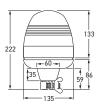
P/N 8007FM





P/N 8007RA

P/N 8008





Part Number	1730		12 VOLT		
Part Number	1731		24 VOLT		
Mounting		Tubular base incorporates connection plug. Must be used in conjunction with connecting piece P/N 8007, 8007FM, 8007RA or 8008.			
Power Consumption	12V - 55W 24V - 70W				
Rotation	160rpm				
RF Suppression	Conducted Class 5 (CISPR 25).			
Bulbs to Suit	12V 24V	C1255 C2470			
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)				
Spare Parts	9.1730.01 9.1732.52 9.1732.54 9.1730.23 8007 8007FM 8007RA 8008	Amber polycarbonate lens Motor 12V Motor 24V Reflector for Rotoflex Connecting piece Connecting piece - flat mount Connecting piece - right angle mount Connecting piece - threaded			
Compliance	R65/00	E1 6509 e1 03 2181			
See page 169 for spare	part images.				

Rotofix Revolving Beacon

- Amber

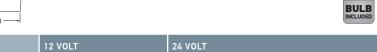
Rotofix revolving beacon with polycarbonate lens and rubber base.





P/N 1733





	12 VOLT	24 VOLT		
Part Number	1732	1732 1732-24V		
	1733	1733-24	iV .	MAGNETIC MOUNT
Mounting	Fixed base or with magne	etic attachment.		
Power Consumption	12V - 55W 24V - 70W			
Rotation	160 +/- 30rpm			
RF Suppression	Conducted Class 5 (CISPR 25).			
Bulbs to Suit	12V C125 24V C247	-		
Protection	IP 5K4K (Protection against IP X9K (Protection against			eased pressure)
Spare Parts	9.1732.52 Moto 9.1732.54 Moto	er polycarbonat or 12V or 24V ector for Rotofix	e lens	
Compliance	R65/00 E1 6	5509	e1 03 2181	

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 159). See page 169 for spare part images.

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	1655		BLUE	
	1656		RED	
Part Number	1657		AMBER	
	1663		GREEN	
Voltage	Multivolt™ 12-72	2V		
Current Draw	0.24 - 0.04A	0.24 - 0.04A		
Power Consumption	3 Watts, 2 Joules			
Flash Rate	60 +/- 10 per minute			
Protection	IP 55 (Protection against dust and water jets)			
Bulb to Suit	XN000	Strobe tube (see page 335)		
Spare Parts	8027 9.1655.01 9.1656.01 9.1657.01 9.1655.03	Magnetic mounting kit Blue lens Red lens Amber lens Multi-voltage power supply, 12-72V		
Compliance	SAE J1318 Clas	s 3		
HELLA does not recom	mend the magnetic	c base version for use on a moving vehicle (see pag	ge 159).	

Firebolt Plus Strobe Beacon -12-72 Volts

The Firebolt Plus strobe features a 2 joule power supply that works from 12 to 72V. Modular construction incorporates a powerful replaceable strobe tube and vibration resistant circuit board. The unit also features a tough impact-resistant polycarbonate lens and base. Applications include fork-lift, electric vehicles, industrial trucks and equipment. Supplied with enclosed base and all necessary mounting hardware (mounts with three bolts).

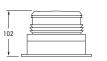






P/N 8027 (extendable to P/N XN000 two metres).







1643		BLUE	
1644		RED	
1645		AMBER	
Multivolt™ 12-48	BV		
0.9 - 0.25A			
11 Watts, 8 Joules			
80 +/- 10 per minute, double flash.			
IP 55 (Protection against dust and water jets)			
XN451	Strobe tube (see page 335)		
8028 9.1643.01 9.1644.01 9.1645.01 9.1643.03	Magnetic mounting kit Blue lens Red lens Amber lens Multi-voltage power supply, 12-48V		
SAE J1318 Clas	s 2		
	1644 1645 Multivolt™ 12-44 0.9 - 0.25A 11 Watts, 8 Jou 80 +/- 10 per m IP 55 (Protection XN451 8028 9.1643.01 9.1644.01 9.1645.01 9.1643.03	1644 1645 Multivolt™ 12-48V 0.9 - 0.25A 11 Watts, 8 Joules 80 +/- 10 per minute, double flash. IP 55 (Protection against dust and water jets) XN451 Strobe tube (see page 335) 8028 Magnetic mounting kit 9.1643.01 Blue lens 9.1644.01 Red lens 9.1645.01 Amber lens	

Pulsator 451 Strobe Beacon - 12-48 Volts

The Pulsator 451 low profile, 12 to 48V strobe is ideal for applications that require shock-resistant mounting, water-resistant performance and easy maintenance. The unit is reverse polarity protected with an isolated earth that enables both negative and positive ground installations.







P/N 8028 (extendable to P/N XN451

Flashing Beacon - 12 Volt

Fresnel lens. Flasher unit P/N 3008 included.









Part Number	1688		RED
	1689		AMBER
Mounting	Three holes for t	fixing screws.	
Bulb to Suit	U1245		
Spare Parts	1.6502.012 1.6502.01 1.6502.013 1.6502.014 3008	Red lens Amber lens Green lens Blue lens 12V Flasher unit	

Flashing Beacon Magnetic Mount - 12 Volt

Fresnel lens. Flasher unit P/N 3008, 3m cable and lighter plug included.









Part Number	1690		RED	
	1691		AMBER	
Mounting	Magnetic base.			
Bulb to Suit	U1245			
Spare Parts	1.6502.012 1.6502.01 1.6502.013 1.6502.014 3008	Red lens Amber lens Green lens Blue lens 12V Flasher unit		
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 159).				

Beacon - 12 Volt

Fresnel lens. Flasher unit not included.









	1692		RED
Part Number	1694		BLUE
	1696		AMBER
Mounting	Three holes for fi		
Bulb to Suit	12V	U1245	
Spare Parts	1.6502.012 1.6502.01 1.6502.013 1.6502.014	Red lens Amber lens Green lens Blue lens	

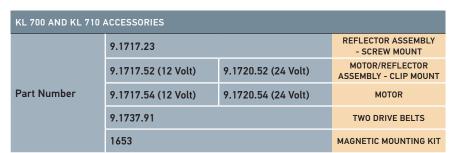
KL 7000 ACCESSORIES				
	9.1726.23	REFLECTOR ASSEMBLY		
Part Number	9.1726.52	MOTOR ASSEMBLY 12/24V		
	9.1737.91	TWO DRIVE BELTS		







P/N 9.1726.52 P/N 9.1737.91









P/N 9.1717.54/9.1720.54 P/N 9.1737.91 P/N 1653

KL JUNIOR PLUS ACCESSORIES				
Part Number	9.1797.91	DRIVE BELT		

KL 8000 ACCESSORIES		
	9.1794.23	REFLECTOR ASSEMBLY
Part Number	9.1726.52	MOTOR ASSEMBLY 12/24V
	9.1737.91	TWO DRIVE BELTS



P/N 9.1726.52 P/N 9.1737.91

	ROTOFLEX AND ROTOFIX ACCESSORIES				
	Part Number	9.1730.23		REFLECTOR FOR ROTOFLEX	
		9.1732.23		REFLECTOR FOR ROTOFIX	
		9.1732.52 (12 Volt)	9.1732.54 (24 Volt)	моток	



P/N 9.1732.52/9.1732.54



P/N 9.1726.23



P/N 9.1717.52 Clip mount





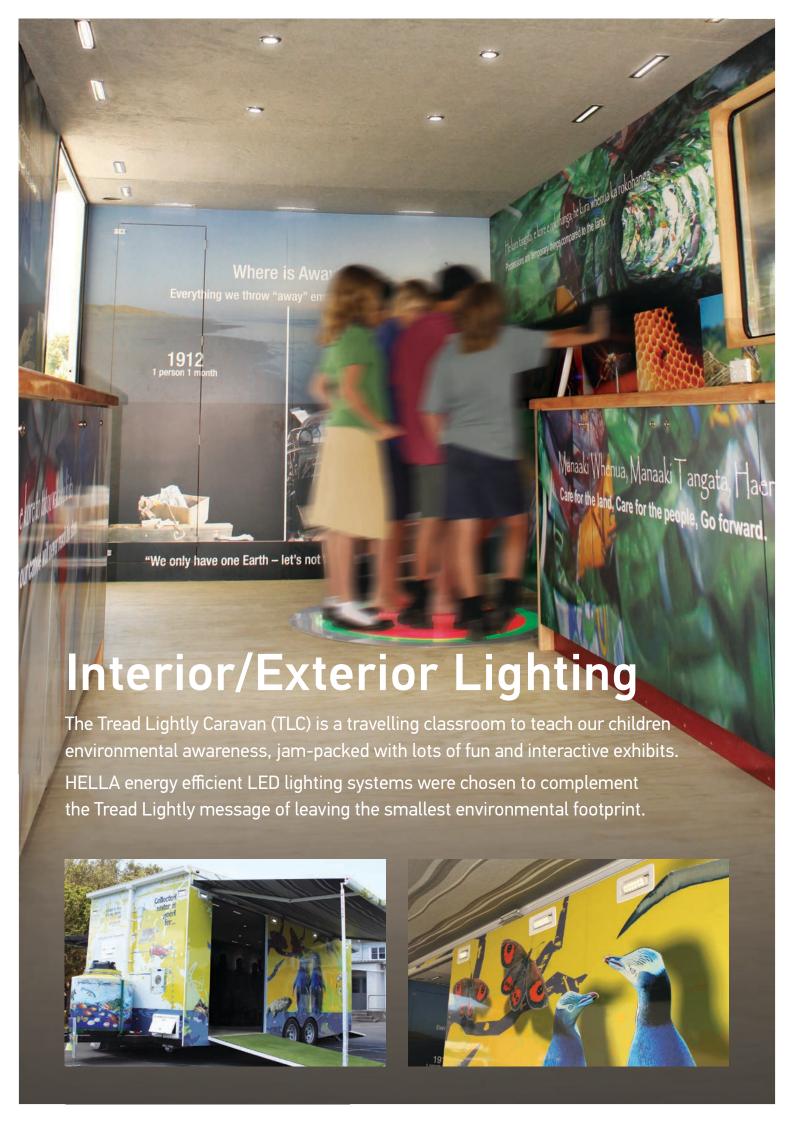
P/N 9.1794.23



P/N 9.1730.23



P/N 9.1732.23



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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.

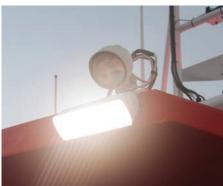
In contrast to incandescent lamps however, LEDs do not like to 'run hot'. As a rule of thumb the hotter an LED runs, the faster it will degrade and in extreme cases result in a much lower light performance and shorter service life.

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 bulb 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.

1850K	Candle
2800K	Halogen Bulb (Incandescent Lamp)
2500-3200K	Warm White LED
4600K-5600K	Crisp White LED
6500K	Daylight

Colour temperature is measured in Kelvin 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 (4600K to 5600K) as 'crisp white' and lower colour temperatures as 'warm white'. 'Neutral white' is considered around 4200K 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.



Light intensity is reduced as the DC input voltage is reduced below the lamps specified operating voltage.



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.



Light intensity is adjusted between 10-100% using a high frequency PWM (pulse width modulation) DC power supply, with adjustable duty cycle 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.

WHITE/RED

Dimmable:

WHITE SHROUD

2JA 959 950-021

Two hole surface mount with mounting bushes supplied.

Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)

Pre-wired with 2.5m of sheathed multi-core cable

 $Multivolt^{\mathsf{m}} \ for \ optimum \ brightness \ at \ input \ voltage \ from \ 9 \ to \ 33 \ volts.$

Mounting spacer - Black

Mounting spacer - White

EuroLED® White/Red Touch Lamp

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.





P/N 2JA 959 950-021





See page 68 for EuroLED® accessories.

BLACK SHROUD

2JA 959 950-011

White: Red:

95995200

95995201

C Z208

C€

P/N 95995201

Part Number

Power Consumption

Mounting Voltage

Protection

Cable Length

Accessories

Compliance

P/N 95995200



EuroLED Touch™ red night light function shown.

EuroLED®

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.

Advanced LED lamps with touch sensitive switching. Power saving and ultra durable.











Designed and manufactured in New Zealand, EuroLED® Touch lamps provide red/white, or white only light using the latest completely sealed touch sensitive technology.

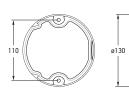


The lamp will always turn on at the colour intensity previously set, regardless of power interruption.

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 9-33 DC, even under severe voltage fluctuations.





EuroLED® White Touch Lamp

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.





P/N 2JA 959 950-561

Part Number	BLACK SHROUD	WHITE SHROUD	
	2JA 959 950-551	2JA 959 950-561	WHITE
Mounting	Two hole surface mount with m	nounting 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	95995200 Mounting spacer - Black 95995201 Mounting spacer - White		
Compliance	(€ € Z208		
See page 68 for EuroLED® accessories.			

Power Supply MULTI VOLT

Part Number	95982050	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	95995200 Mounting spacer - Black 95995201 Mounting spacer - White		
Compliance	(€ © Z208		

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.



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 (luminance) 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® 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.

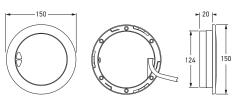






Red function

Packaging







	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
Part Number	2JA 980 630-001	2JA 980 630-011	WHITE/RED
	2JA 980 630-101	2JA 980 630-111	WARM WHITE/RED
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 cable.		
Compliance	C € C Z208		

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.







P/N 2JA 980 630-601 Packaging



Sealed cable entry



	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
Part Number	2JA 980 630-501	2JA 980 630-511	WHITE
	2JA 980 630-601	2JA 980 630-611	WARM WHITE
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 cable.		
Compliance	(€ € Z208		

WHITE PLASTIC RIM

2JA 980 631-501

2JA 980 631-601

(€

Recess mount, 124mm hole.

C Z208



Part Number

Power Consumption

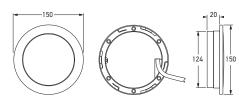
Mounting

Voltage

Protection

Cable Length

Compliance



WHITE

WARM WHITE

POLISHED STAINLESS STEEL RIM

2JA 980 631-511

2JA 980 631-611

 $Multivolt^{\mathsf{m}} \ for \ optimum \ brightness \ at \ input \ voltage \ from \ 9 \ to \ 33 \ volts.$

Reverse polarity and transient spike circuit protection.

Pre-wired with 0.5m of sheathed multi-core cable.

Sealed against dust and water ingress.

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.







P/N 2JA 980 631-601

Packaging

ILLUMINATION CHARTS	
EuroLED® 150 - White	EuroLED® 150 - Warm White
2m44	2m 35
Spread pattern H=28° V=28° V=28° V=28°	Spread pattern H=28° V=28° V=28° V=28°

EuroLED® 115 Downlights - With White Spacer

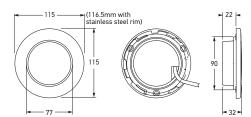
Round LED high intensity downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.







P/N 2JA 980 820-101 Sealed cable entry







	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
Part Number	2JA 980 820-001	2JA 980 820-011	WHITE
	2JA 980 820-101	2JA 980 820-111	WARM WHITE
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 cable.		
Compliance	(€ © Z208		
See page 197 for a HELLA PWM based dimmer unit.			

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.





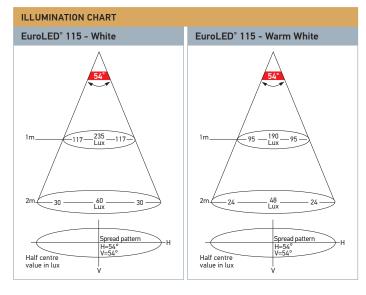


P/N 2JA 980 828-111 Packaging

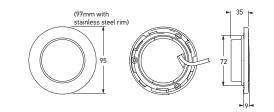
		PWM 10-100% _	VOLT
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
Part Number	2JA 980 828-001	2JA 980 828-011	WHITE
	2JA 980 828-101	2JA 980 828-111	WARM WHITE
Mounting	Recess mount. Surface mount via spacer.		
Voltage	Multivolt™ for optimum brightness at input voltage from 10 to 33 volts.		
Power 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 cable.		
Compliance	(€ € Z208		



EuroLED® 115 Downlights with switch, expanded view.



See page 197 for a HELLA PWM based dimmer unit.



Dimmable:

	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
Part Number	2JA 980 940-001	2JA 980 940-011	WHITE
	2JA 980 940-101	2JA 980 940-111	WARM WHITE
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 cable.		
Compliance	(€ € Z208		
See page 197 for a HELLA PWM based dimmer unit.			

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.



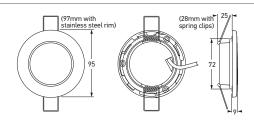




P/N 2JA 980 940-111 Packaging

Compliance





	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
Part Number	2JA 980 940-201	2JA 980 940-211 WH	
	2JA 980 940-301	2JA 980 940-311	WARM WHITE
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 cable.		

(€ See page 197 for a HELLA PWM based dimmer unit.

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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.

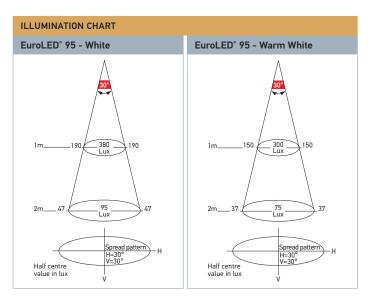






P/N 2JA 980 940-311

Packaging



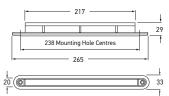
LED White Interior/Exterior Strip Lamp

White LED interior lamp with clear UV resistant acrylic lens. Ideal for steps, interior or exterior courtesy lighting and storage areas.





P/N 2641HB





Dimmable: Analog DC Input

	· ·		
	12 VOLT	24 VOLT	
Part Number	2641-12V	2641-24V	WHITE
	2641HB	2641HB-24V	HIGH BRIGHTNESS WHITE
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	9GD 959 155-507 Gasket		
See page 197 for a HELLA analog based dimmer unit.			

LED Interior/Exterior Strip Lamp

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.

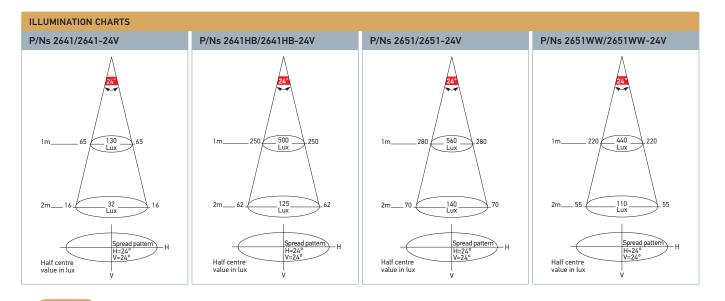




P/N 2651WW Shown expanded



	12 VOLT	24 VOLT	
Part Number	2651	2651-24V	WHITE
	2651WW	2651WW-24V	WARM WHITE
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.		
See page 197 for a HELLA analog based dimmer unit.			



283 Dimmable: Analog DC Input _\<u>\</u>11 12 VOLT 24 VOLT Part Number 2652 2652-24V WHITE 2652WW 2652WW-24V WARM WHITE 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)

Pre-wired with 2.5m of sheathed multi-core cable.

See page 70 for surface mount strip lamp screw caps. See page 197 for a HELLA analog based dimmer unit.

Cable Length

Cable Length

LED Interior/Exterior Strip Lamp - Surface Mount

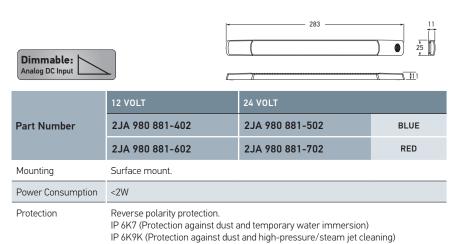
LED lamp featuring a soft white colour temperature and diffused lens for an evenly spread light. Fully sealed for complete protection against water and dust ingress.





P/N 2652WW





Pre-wired with 0.5m of sheathed multi-core cable.

See page 70 for surface mount strip lamp screw caps. See page 197 for a HELLA analog based dimmer unit.

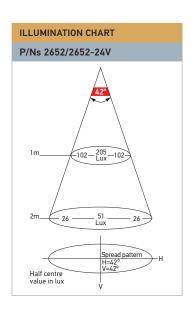
LED Courtesy Strip Lamp - Surface Mount

These LED courtesy surface mount strip lamps feature a shallow 11mm profile and completely sealed housings. Available in blue and red colour variants.





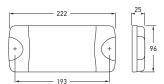
P/N 2JA 980 881-602



DuraLED® Combi-S White 50 LED Lamp

White high brightness LED lamp with Grilamid® 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 Grilamid® clear nylon which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.











MULTI

Part Number	98060450	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33	3 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 sheathed multi-core cable.	
Lens Material	Grilamid*	
Compliance	C € © Z208	
See page 66 for DuraLED® accessories.		

DuraLED® Combi White 50 LED Lamp

White high brightness LED lamp with Grilamid® 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 Grilamid® clear nylon which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.





P/N 98060403



P/N 98071900

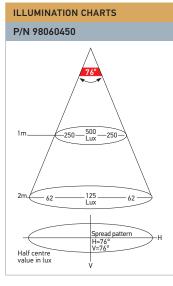


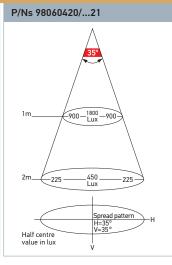
P/N 98071901 Suitable for all DuraLED® Combi lamps, see page 66.

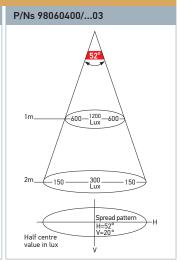




	WHITE LENS	CHARCOAL LENS	
Part Number	98060420	98060421	SPREAD
	98060400	98060403	WIDE SPREAD
Mounting	Two hole surface mount with m	nounting bushes supplied.	
Voltage	Multivolt™ for optimum brightne	ess at input voltages from 9 to 33	3 volts.
Power Consumption	<12W		
Protection	Reverse polarity and 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	Grilamid*		
Compliance	C €		



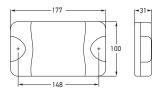












	WHITE LENS	CHARCOAL LENS	
D IN I	95903730	95903731	PENCIL
Part Number	95903740	95903741	NARROW
	95903720	95903721	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	<9W		
Protection	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	Grilamid*		
Compliance	(€ € Z208		
See page 66 for DuraLED® accessories.			

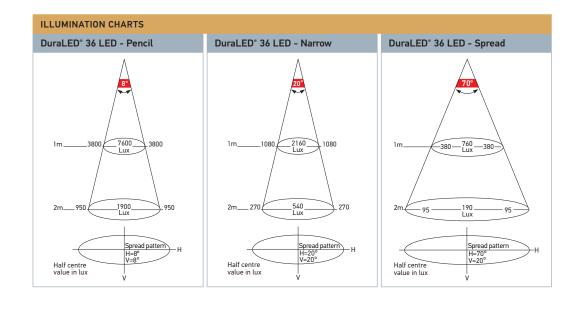
DuraLED® White 36 LED Lamp

White high brightness LED lamp with Grilamid® lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<9 watts) and low heat. Lens manufactured from Grilamid® clear nylon which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.





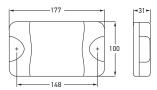
P/N 9593721



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.









Part Number	98060801 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	C € Z208	
See page 66 for DuraLED® accessories.		

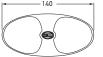
DuraLED® White 12 LED Wide Spread Lamp

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.





P/N 95970400



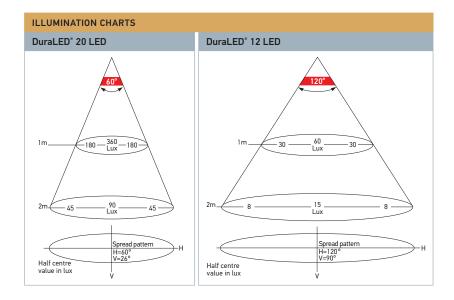






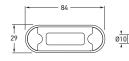


Part Number	95970010	WILLE
	95970400 (Includes switch)	WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<3W	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporar	y water immersion.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	(€ © Z208	









	98085510	WHITE
	98085515	WARM WHITE
	98085525	AMBER
Part Number	98085535	RED
	98085540	BLUE
	98085550	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	Grilamid*	
Compliance		

DuraLED® Surface Mount Courtesy Lamp - 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.







P/N 98085515

P/N 98085525





P/N 98085535

P/N 98085540



P/N 98085550

RIMS		
Part Number	Colour	Material
95968500	POLISHED	
95968502	GOLD PLATED	316 STAINLESS STEEL
95968506	SATIN CHROME PLATED	SIEEL

SCREW CAPS		
Part Number	Colour	Quantity
9.2310.09-BULK	BLACK	
9.2310.10-BULK	RED	
9.2310.11-BULK	WHITE	
9.2310.12-BULK	BLUE	DACK OF /
9.2310.13-BULK	GREEN	PACK OF 4
9.2310.14-BULK	YELLOW	
9.2310.15-BULK	AMBER	
9.2310.16-BULK	GREY	
Pack sizes of 50 available upon request.		

9.2310.10-BULK 9.2310.12-BULK 9.2310.13-BULK 9.2310.14-BULK 9.2310.15-BULK 9.2310.16-BULK

DuraLED® Surface Mount Courtesy Lamp Accessories

Accessory rims and screw caps for the LED surface mount courtesy lamp family.



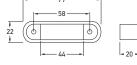
P/N 95968500



P/N 9.2310.11-BULK

LED Narrow Rim Rectangular Courtesy Lamp

Narrow rim flush mount courtesy lamp with either white, red, amber, green or blue LEDs.







Part Number	12/24 VOLT		
	95951040 (Clear lens)	WHITE	
	95951015 (Clear lens)	GREEN	
	95951025 (Clear lens)	BLUE	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Compliance	(€ (2 208		



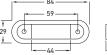


	12 VOLT	24 VOLT	
Part Number	95951031 (Red lens)	95951033 (Red lens)	RED
	95951001 (Amber lens)	95951006 (Amber lens)	AMBER
Mounting	Recess mount.		
Power Consumption	<1W		
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 120mm of cable.		
See page 67 and 70 for spare parts and accessories. See page 197 for a HELLA analog based dimmer unit.			

LED Wide Rim Rectangular Courtesy Lamp

Wide rim flush mount courtesy lamp with either white, red, amber, green or blue LEDs.









Part Number	12/24 VOLT		
	95951080 (Clear lens)	WHITE	
	95951095 (Clear lens)	GREEN	
	95951065 (Clear lens)	BLUE	
Voltage	Multivolt™ for optimum brightness in 12 and 24 volt systems.		
Compliance	(€ © Z208		

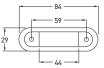




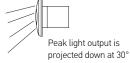
	12 VOLT	24 VOLT	
Part Number	95951071 (Red lens)	95951073 (Red lens)	RED
	95951051 (Amber lens)	95951053 (Amber lens)	AMBER
Mounting	Recess mount.		
Power Consumption	<1W		
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 120mm of cable.		
See page 67 and 70 for spare parts and accessories. See page 197 for a HELLA analog based dimmer unit.			

See page 67 and 70 for spare parts and accessories. See page 197 for a HELLA analog based dimmer unit.









	μιο	jecteu uowii at 50		
	12/24 VOLT (CLEAR LENS)			
	95968080	WHITE		
Part Number	95968070	RED		
	95968090	GREEN		
	95968060	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	C € © Z208			
See page 67 and 70 for spare parts and accessories.				

LED Wide Rim Rectangular Courtesy Step Lamp

Wide rim, flush mount, courtesy step lamp with either white, red, green or blue LEDs. Optic appears clear until illuminated.





P/N 95968060

Power Supply MULTI VOLT







	95963046	WHITE
Part Number	95963025	BLUE
	95963055	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	C € Z208	
See page 67 for spare p	arts and accessories.	

DuraLED® Surface Mount Courtesy Lamp

Blue, white or green LED courtesy lamps. Optic appears clear until illuminated.







P/N 95963025

P/N 95963055

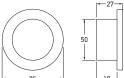
LED High Intensity Courtesy Lamps

Round LED high intensity courtesy lamps for interior and exterior use. Includes a black and a white plastic rim (as shown). Additional rims and housings are available as spare parts.

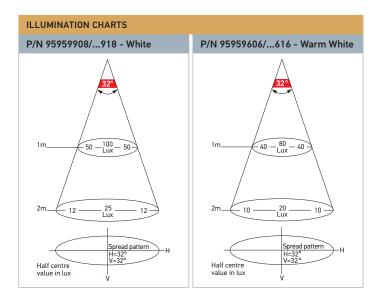




P/N 95959606



75	- 19 -		nmable:
	12 VOLT	24 VOLT	
Part Number	95959908	95959918	WHITE
	95959606	95959616	WARM WHITE
Mounting	Recess mount with 50mm di	ameter 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.		
See page 197 for a HELLA analog based dimmer unit.			





Dimmable: Analog DC Input





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.



P/N 98050001









P/N 98050701





P/N 98050241

P/N 98050221

	12 VOLT	24 VOLT	
	98050001	98050101	WHITE
	98050021	98050121	WARM WHITE
	98050741	98050841	DEEP RED
Don't Novel on	98050721	98050821	RED
Part Number	98050761	98050861	ORANGE
	98050701	98050801	AMBER
	98050201	98050301	GREEN
	98050241	98050341	CYAN
	98050221	98050321	BLUE
Maunting	Dagger mount with Engage dian	notor bolo	

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. See page 197 for a HELLA analog based dimmer unit.

Part Number Colour Material 95950520 BLACK **PLASTIC** 95950531 WHITE 95950550 POLISHED GOLD PLATED 316 STAINLESS 95950552 SATIN CHROME 95950556 PLATED

ROUND HOUSING		
Part Number	Colour	Material
95999310	BLACK	PLASTIC
95999311	WHITE	PLASTIC
Housing does not suit high intensity courtesy lamps		



Round Courtesy Lamp Accessories

Spare rims and housings for the round courtesy lamp family. One rim is required per lamp.







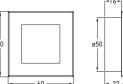
LED High Intensity Courtesy Lamps

Square LED high intensity courtesy lamps for interior and exterior use. Includes a black and a white plastic rim (as shown). Additional rims and housings are available as spare parts.





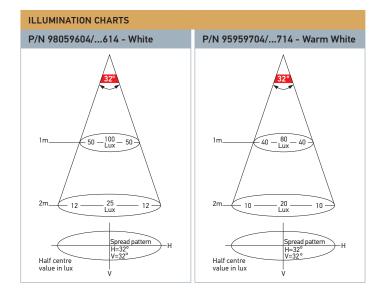
P/N 98059704





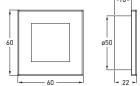
Dimmable: Analog DC Input	
------------------------------	--

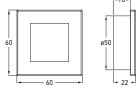
	12 VOLT	24 VOLT	
Part Number	98059604	98059614	WHITE
	98059704	98059714	WARM WHITE
Mounting	Recess mount with 50mm diameter hole.		
Power Consumption	1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 120mm of cable.		
See page 197 for a HELLA analog based dimmer unit.			





Dimmable: Analog DC Input





LED Square Courtesy Lamps - Clear Lens

Attractive, energy efficient square 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.





P/N 98058741

P/N 98058721





P/N 98058241 P/N 98058221

P/N 98058021

	12 VOLT	24 VOLT		
	98058001	98058101	WHITE	
	98058021	98058121	WARM WHITE	
	98058741	98058841	DEEP RED	
B . N . I	98058721	98058821	RED	
Part Number	98058761	98058861	ORANGE	
	98058701	98058801	AMBER	
	98058201	98058301	GREEN	
	98058241	98058341	CYAN	
	98058221	98058321	BLUE	
Mounting	Recess mount, 50mm diamete	r hole.		
Power Consumption	1W			
Protection	Reverse polarity protection. Fully sealed against dust, high-	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 120mm of cable	e.		

Each lamp includes a black and a white plastic rim. Additional rims and housings are available as spare parts.

See page 197 for a HELLA analog based dimmer unit.

SQUARE RIMS - SINGLE Part Number Colour Material 98058520 BLACK 98058531 WHITE 98058501 CHROME PLATED PLASTIC 98058502 GOLD PLATED SATIN CHROME 98058503 PLATED

SQUARE HOUSING		
Part Number	Colour	Material
95999360	BLACK	PLASTIC
95999354	WHITE	PLASTIC



Square Courtesy Lamp Accessories

Spare rims and housings for the square courtesy lamp family. One rim is required per lamp.



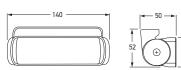




DuraLED® WL200 Work Lamp

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 Grilamid* lens. Option of two light patterns, narrow or spread.











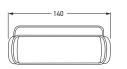


Part Number	NARROW	SPREAD	
Part Number	98067020	98067030 WHITE	
Mounting	Upright or pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	3W		
Max. Light Output	200lm		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection 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	Grilamid*		
Compliance	(€ © Z208		

DuraLED® WL550 Work Lamp

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 Grilamid* lens. Option of two light patterns, spread or wide spread.







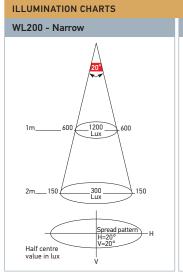


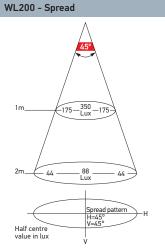


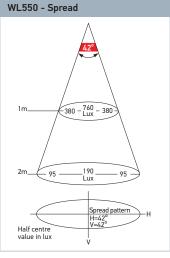


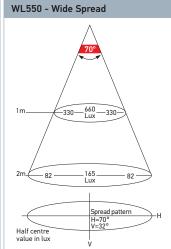


Dant Namehan	SPREAD	WIDE SPREAD	
Part Number	98057310	98057300	WHITE
Mounting	Upright or pendant.		
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	7W		
Max. Light Output	550 lm		
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection 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	Grilamid*		
Compliance	(€ € Z208		



















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68	\bigcirc	55 ↓

	NARROW	SPREAD		
Part Number	98095023	98095003	WHITE	
	98095033	98095014	WARM WHITE	
Mounting	Upright or pendant.			
Voltage	Multivolt™ for optimum brightne	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	High intensity mode: 12W (1A@12V/0.50A@24V) Low intensity mode: 2W (0.17A@12V/0.08A@24V)			
Max. Light Output	750lm			
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	Grilamid [®]			
Compliance	C € © Z208			

DuraLED® WL750 Work Lamp

Featuring an integrated dual intensity circuit, a high level of spike protection and energy efficient Multivolt™ technology, the innovative DuraLED® WL750 will appeal for applications where energy efficiency and reliability is a must. Features a tough, chemical resistant Grilamid® lens, a highly impact resistant Swiss-made crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as technologically advanced thermally conductive non-metal housing.



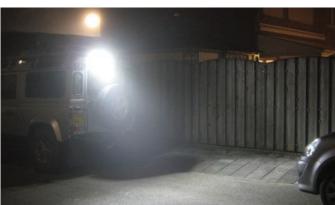




Friction mounts; easy adjustment without tools.

Completely sealed lamp/ cable entry. Marine grade stainless steel bracket.

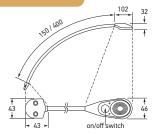




LED Flexible Map Reading Lamp

LED map reading light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.





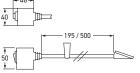


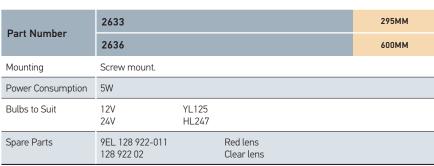
Part Number	2638	150MM
Part Number	2639	400MM
Mounting	Screw mount.	
Voltage	Multivolt™ for optimum brightness at input voltage from 9 to 31	volts.
Power Consumption	2.4W	
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)	
Cable Length	Pre-wired with 150mm of cable.	
Compliance	C€	
Suitable for interior use only.		

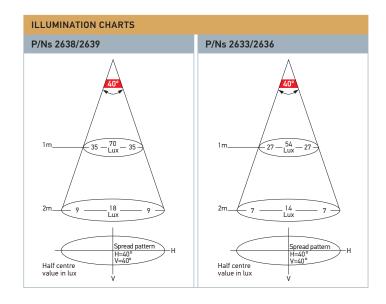
Halogen Map Reading Lamp

Flexible black arm. Lamp head has an integral rocker on/off switch and is fitted with a clear diffuser lens for glare-free illumination. Pillar or dash mounting.









Part Number

Bulbs to Suit

Spare Part

2610

2611

12V

24V 2.9800.08 K1210

K2410

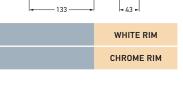
Clear lens





Interior Lamp

Suitable for insulated earth circuits.







Base with Switch

P/N 2611





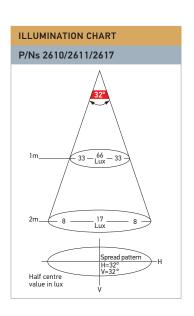


Complete with on/off switch. Suitable for insulated earth circuits.

Interior Lamp - Polycarbonate

Part Number	2617		WHITE RIM
Bulbs to Suit	12V 24V	K1210 K2410	
Spare Part	2.9800.08	Clear lens	





Fluorescent Lamp - 7 Watt

High quality, fully suppressed fluorescent interior lamp with impact resistant lens, on/off switch and compact fluorescent tube 7W.





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Part Number	2642	12 VOLT
Part Number	2642-24V	24 VOLT

Power Consumption 4W @ 12V, 8W @ 24V

Spare Parts	9.2642.01 9.2642.02	Clear lens Compact fluorescent twin tube 7W white
RF Suppression	Suppression Class	K in accordance with VDE 0871 Class B and VDE 0879 Part 3.

Fluorescent Lamp - 11 Watt

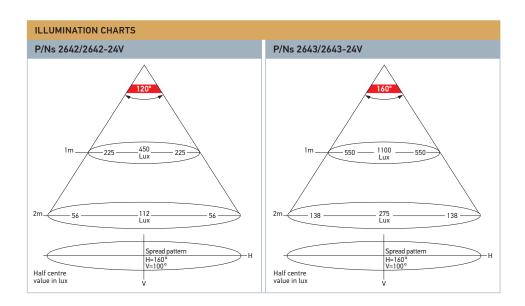
High quality, fully suppressed fluorescent interior lamp with impact resistant lens, on/off switch and compact fluorescent tube.





P/N 9.2643.02

355 † 59		35	BULB INCLUDED
Don't Number	2643		12 VOLT
Part Number	2643-24V		24 VOLT
Power Consumption	7W @ 12V, 14W @ 2	24V	
Spare Parts	9.2643.01 9.2643.02	Clear lens Compact fluorescent twin tube 11W white	
RF Suppression	Suppression Class	K in accordance with VDE 0871 Class B and V	/DE 0879 Part 3.



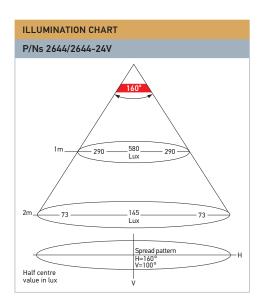




Part Number	2644	12 VOLT
	2644-24V	24 VOLT

Power Consumption 5W @ 12V, 10W @ 24V

Spare Parts	9.2644.01 TL8W/336J	Clear lens Compact fluorescent tube 8W white
RF Suppression	Suppression Class I	K in accordance with VDE 0871 Class B and VDE 0879 Part 3.



Fluorescent Lamp - 8 Watt

High quality, fully suppressed fluorescent interior lamp with impact resistant lens, on/off switch and compact fluorescent tube.





P/N TL8W/336J



Part Number	5XA 998 572-00	1			
Maximum Load	12V 24V	2 x 100W 2 x 200W			
Input Voltage Range	8 - 30V DC				
System Voltage	Suitable for 12 or 2	4V systems.			
Number of Groups	2				
Switches Per Group	Unlimited				
Switch Type	Normally open momentary switch.				
Protection	Overload, Temperature, Low voltage.				
Fuse	2 x 10A				
Compliance	C€				

2 Group Light Dimmer

The Hella marine 2 group light dimmer provides precise dimming control for one or two separate light groups, and sophisticated voltage regulation with a 'soft-start' feature to lengthen the life of a filament bulb. Suitable for selected HELLA PWM based LED and bulb lamps. The dimmer also provides low voltage protection against deep battery discharge.





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

Relays and Flasher Units

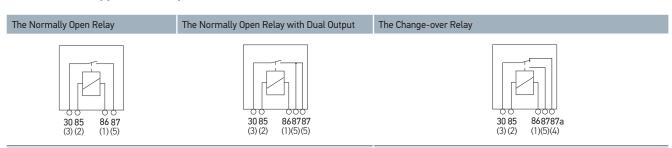
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HELLA RELAYS

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 DES	COMMON PIN DESIGNATIONS FOR RELAYS							
Pin No.	Description							
85/2	Earth (end of winding to ground or negative)	Eliminating Voltage Spikes						
86/1	Positive	Voltage spikes from 300V to 500V can occur momentarily when a relay is switched off. Sensitive electronic equipment can						
87/5	Output (to consumer e.g. driving lamp)	be damaged or malfunctions can occur if these spikes reach the						
87a/4	Alternative output (1st output, break side)	vehicle electrical network without suppression. A relay with a diode eliminates voltage spikes completely.						
30/3	Positive supply (Input from + battery terminal, direct)	uloue etiminates vottage spines completely.						

The Different Types of Relays



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.

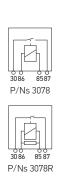
RELAY QUICK REFERENCE CHART

MINI RELAYS - N	ORMALLY 0	FEIN						
Part Number	Voltage	Pins	Function	Protection	Maximum Load	Current Draw	Bracket	Description
3078	12V	4	N/0		30A	140mA	Yes	
3078R	12V	4	N/0	Resistor	50A	140mA	Yes	Terminals 30 and 87 are 9.5mm terminal
3053	12V	4	N/0	Diode	40A	170mA	Yes	
3059	12V	4	N/0	Diode	50A	210mA	Yes	Terminals 30 and 87 are 8.1mm terminal
3082	12V	5	N/0		40A	140mA	Yes	-
3055	12V	5	N/0	Diode	40A	170mA	Yes	
3079	24V	4	N/0		30A	70mA	Yes	
3079R	24V	4	N/0	Resistor	30A	90mA	Yes	-
3054	24V	4	N/0	Diode		90mA	Yes	-
3060	24V	4	N/0	Diode	30A	90mA	Yes	Terminals 30 and 87 are 8.1mm terminal
3083	24V	5	N/0		20A	70mA	No	-
3056	24V	5	N/0	Diode	22A	90mA	Yes	
MINI RELAYS - N	IORMALLY O	PEN FUS	ED					
3076	12V	4	N/0		25A	140mA	Yes	
3077	24V	4	N/0		15A	80mA	Yes	
MINI RELAYS - C	HANGE-OVE	R						
3080	12V	5	N/O-N/C		30-87, 30A/30-87a, 20A	140mA	Yes	
3057	12V	5	N/0-N/C	Diode	30-87, 40A/30-87a, 15A	170mA	Yes	
3081	24V	5	N/O-N/C		30-87, 20A/30-87a, 10A	70mA	Yes	
3058	24V	5	N/0-N/C	 Diode	30-87, 20A/30-87a, 10A	90mA	Yes	_
WEATHERPROOF 3080S	RELAY - CH	1 ANGE-0\ 5	/ER N/0-N/C	Resistor	30-87, 30A/30-87a, 20A	160mA	Yes	Connector P/N 4973S
SOLID STATE RE	LAY - NORM	ALLY OPE	EN .					
3063	12V	4	N/0		22A		No	
HIGH CAPACITY	RELAYS - NO	RMALLY	OPEN					
3084	12V	4	N/0		60A	140mA	Yes	Terminals 30 and 87 are 9.5mm terminal
3061	12V	4	N/0		180A peak (100A continuous)	380mA	Yes	
3085	24V	4	N/0		60A	70mA	Yes	Terminals 30 and 87 are 9.5mm terminal
3062	24V	4	N/0		80A peak (60A continuous)	180mA	Yes	Terrimas so and or are 7.5mm terrimas
MICRO RELAY - I	12V	PEN 4	N/0	Resistor	20A	140mA	No	Terminals 85 and 86 are 4.8mm
	THANGE-OVE	- P						
MICRO REL AV - I								
MICRO RELAY - 0	12V	5	N/O-N/C	Resistor	30-87, 20A/30-87a, 10A	140mA	No	Terminals 85, 86 and 87a are 4.8mm
	12V		N/O-N/C	Resistor	30-87, 20A/30-87a, 10A	140mA	No	Terminals 85, 86 and 87a are 4.8mm
3065	12V		N/0-N/C Latching	Resistor	30-87, 20A/30-87a, 10A 20A	140mA 140mA	No No	Terminals 85, 86 and 87a are 4.8mm Terminals 1, 2 and 6 are 4.8mm
3065 MICRO RELAY - I	12V _ATCHING 12V	5		Resistor				
3065 MICRO RELAY - 1 3064L	12V _ATCHING 12V	5				140mA		
3065 MICRO RELAY - I 3064L TIME CONTROL I	12V ATCHING 12V RELAYS	5	Latching	Contact (20A	140mA A 30min	No	
3065 MICRO RELAY - I 3064L TIME CONTROL I 3086	12V ATCHING 12V RELAYS 12V	5 5	Latching N/0-N/C	Contact (20A opened 10A, Contact closed 20 <i>A</i>	140mA A 30min A 30min	No Yes	

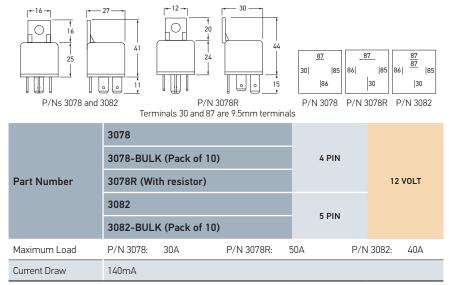
Normally Open Mini Relay



P/Ns 3078 and 3082

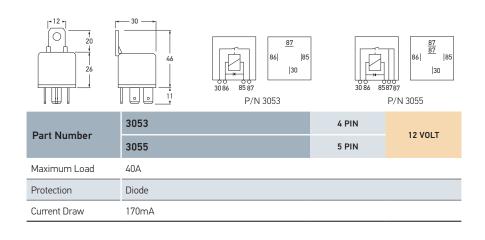


P/Ns 3082



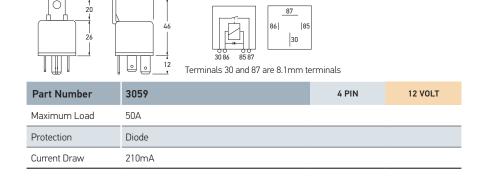
Normally Open Mini Relay with Diode





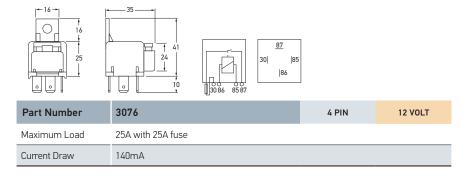
Normally Open Mini Relay with Diode

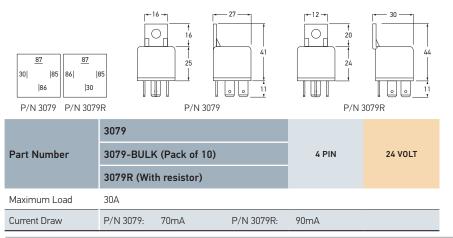




Normally Open Fused Relay







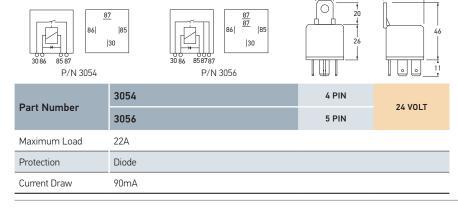
Normally Open Mini Relay





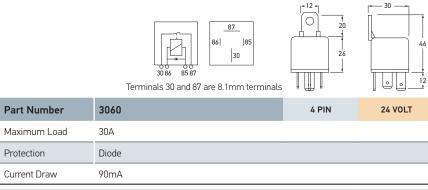
Normally Open Mini Relay - Without Bracket





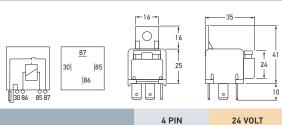
Normally Open Mini Relay With Diode





Normally Open Mini Relay With Diode





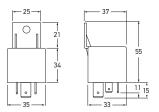
	Щзи 86 - 85 87	⇒ ⊎ 1	
Part Number	3077	4 PIN	24 VOLT
Maximum Load	15A with 15A fuse		
Current Draw	80mA		

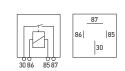
Normally Open Fused Relay



High Capacity Normally Open Relay





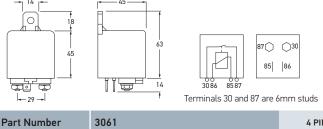


Terminals 30 and 87 are 9.5mm terminals

Part Number	3084	4 PIN	12 VOLT
Maximum Load	60A		
Current Draw	140mA		

High Capacity Normally Open Relay

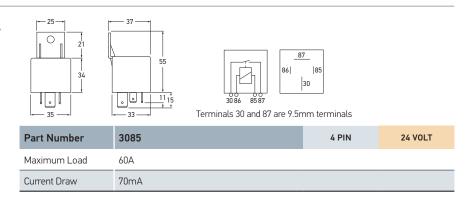




Part Number	3061	4 PIN	12 VOLT
Maximum Load	180A peak current (100A continuous)		
Current Draw	380mA		

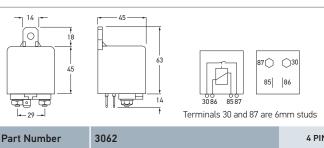
High Capacity Normally Open Relay



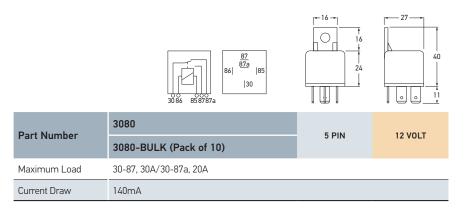


High Capacity Normally Open Relay



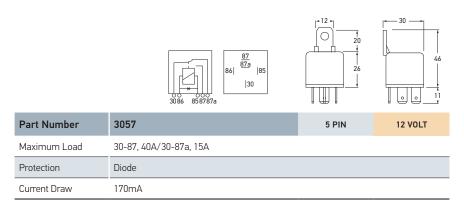


Part Number	3062	4 PIN	24 VOLT
Maximum Load	80A peak current (60A continuous)		
Current Draw	180mA		



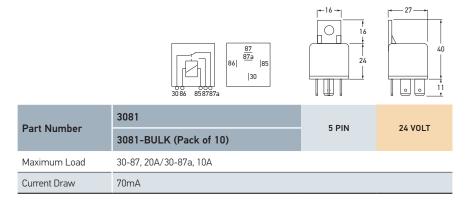
Change-over Relay





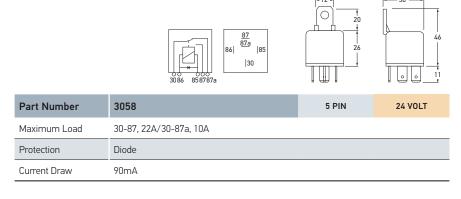
Change-over Relay with Diode





Change-over Relay





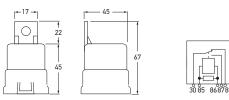
Change-over Relay with Diode



Weatherproof Change-over Relay

Change-over relay with matching plug to form a dust and weatherproof seal. Pre-wired connector with 300mm of 3 x 2.90mm² cable and 2 smaller signal cables (to be purchased seperately).





Part Number	3080S		5 PIN	12 VOLT
Maximum Load	30-87, 30A, 30-87a	, 20A		
Current Draw	160mA			
Spare Part	4973S	Connector with cable		
Protection	Resistor			

30

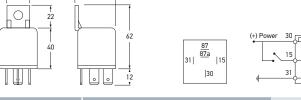


P/N 4973S

Time Control Unit with Drop-out Delay

Relay with manually adjustable drop-out delay function, 0-900 seconds.



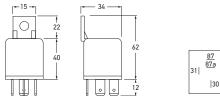


Part Number	3086	5 PIN	12 VOLT			
	3086-24V	3 FIN	24 VOLT			
Maximum Load	imum Load Contact opened 10A Contact closed 20A/30min					
Protection	IP 50 (Protection against dust)					
Switching terminal 15 starts timing.						

Time Control Unit with Pick-up Delay

Relay with manually adjustable pick-up delay function, 0 – 900 seconds.





Part Number	3087	5 PIN	12 VOLT
	3087-24V	5 PIN	24 VOLT
Maximum Load Contact opened 10A Contact closed 20A/30min			
Protection IP 50 (Protection against dust)			
Switching terminal 15 starts timing.			

5 3 3064L Part Number 5 PIN **12 VOLT** Maximum Load 20A Current Draw 0.15A

Latching On/Off Micro Relay

Latching relay that will remain in its open or closed state when power is removed, i.e. it will remain on or off and not automatically return to off. A negative (-) voltage pulse is required on either terminal 1 or 2 to switch on or off.







Part Number	NORMALLY OPEN			
Part Number	3064	4 PIN	12 VOLT	
Maximum Load	20A @ 12V			
Protection	Resistor			



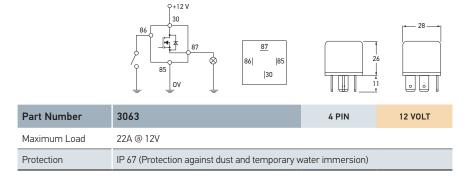
Don't Noveleau	CHANGE-OVER			
Part Number	3065	5 PIN	12 VOLT	
Maximum Load	3-5 20A/3-4 10A			
Protection Resistor				
Terminal designations: 1 = 86. 2 = 85. 3 = 30. 4 = 87a. 5 = 87.				

Micro Relay

Micro relay with parallel resistor. P/N 3064 features two 4.8mm and two 6.3mm blade terminal contacts (terminals 3 and 5). Change-over relay P/N 3065 features three 4.8mm and two 6.3mm blade terminal contacts (terminals 3 and 5).



P/N 3065



FEATURES

- Suitable for resistive loads, lamp loads and inductive loads.
- Pulse width modulation allows regulation of the power for the loads.
- Maximum switching reliability, particularly suited for switching functions relevant for safety.
- Silent switching, e.g. in passenger compartment.
- Resistant to short-circuit and overload.
- Protection against polarity reversal and earth disconnection.
- Shock and vibration-resistant.
- Water-proof, potted design.
- Protection against overheating.
- Low quiescent current.

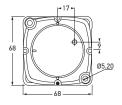
Normally Open (Solid State) Relay

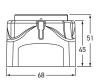
Solid-state relays are modern semi-conductor switches. Satisfies the increasing trend of controlling loads (e.g. fan motors, glow plugs, headlamp and heaters) with power regulation.



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. The relay automatically detects either 12 or 24 volt operation. Very low power consumption (less than 2mA) or none in power storage mode.







Part Number	3099	12/24 VOLT
Voltage	Multivolt™, suitable for 12 and 24 volt systems.	
Mounting	Recess or surface mount.	
Maximum Continuous Load	140A	
Termination	2 x 6mm studs	



Mini Relay Connector

Single screw mounting. Sturdy plastic casing. Supplied with 5 blade terminals. Several holders may be joined together or mated with fuse holder P/N 8704.



Part Number	4973		
Part Number	4973-BULK	PACK OF 50	
Mounting	Single screw mounting.		
To Suit	4 and 5 pin relays with 6.3mm flat pin connectors.		
P/Ns 3076 and 3077 are not suitable for multiple installation using this connector.			

Micro Relay Connector

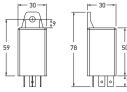
For micro-relays with 5 pole SAE terminal arrangement. For receiving three 4.8mm and two 6.3mm blade terminal connectors. Made of black plastic.



Part Number	4973-M	5 POLE
Socket	5 pole	
To Suit	P/Ns 3064, 3064L and 3065.	







Part Number	3090
Voltage	Multivolt [™] , suitable for 12 and 24 volt systems.
Maximum Continuous Load	20W
To Suit	HELLA LED Safety DayLights™ range.

Features a Safety DayLights $^{\!\scriptscriptstyle{\mathsf{T}}}\!$ 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 [™] (+)
)		

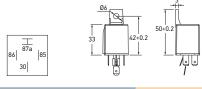
Safety DayLights™ Smart Controller

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.

Safety DayLights™ Smart Controller may not function on hybrid vehicles or vehicles with stop/start systems.





	9.5630.03		12 VOLT
Part Number	9.5636.03		12 4021
	9.5630.04		24 VOLT
	9.5636.04		24 VOLI
To Suit	9.5630.03 P/N 1009, 5619, 5630, 5631 9.5636.03 P/N 5636 9.5630.04 P/N 1009-24V, 5619-24V, 5630-24V, 5631-24V 9.5636.04 P/N 5636-24V		

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING
1A Fuse (S) \$0.00

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

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.



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 bulb 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 bulb 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 bulb filament when it heats up, as in the initial heat-up period the bulbs 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 bulb. 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 bulb.

HELLA New Zealand has been instrumental in laying the groundwork for the development of the HELLA Compatibility System (HCS), which became the blueprint for the new 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 the 24 volt European trucks of tomorrow.

HELLA lamps which incorporate HCS readily comply with ISO 13207-1. I = Current T = Time I LED

The HCS innovation generates a pulse that simulates the current draw equivalent to an incandescent bulb.

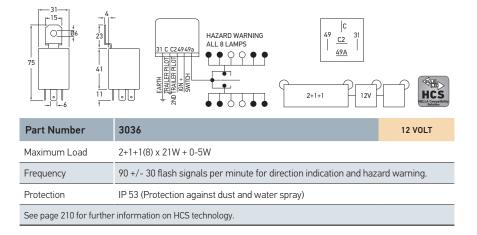


A selection of HCS products.

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 bulb/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W bulb-type lamps.

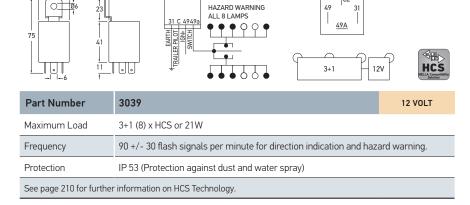




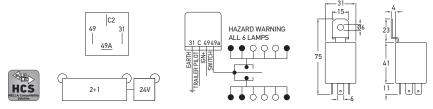
HCS Electronic Flasher Unit - 3+1

LED compatible flasher unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable bulb/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W bulb-type lamps.





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 (+)	

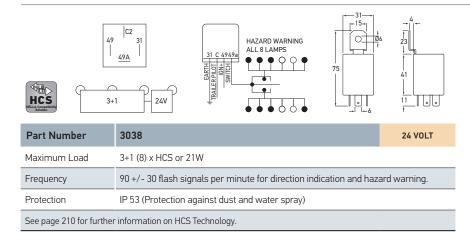


Part Number	3037	24 VOLT	
Maximum Load	2+1 (6) x HCS or 21W + 0-5W		
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.		
Protection	ection IP 53 (Protection against dust and water spray)		
See page 210 for further information on HCS Technology.			

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 bulb/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W bulb-type lamps.

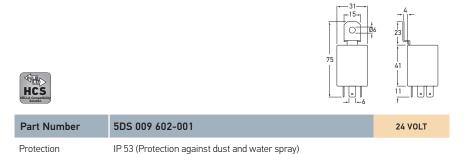




HCS Electronic Flasher Unit - 3+1

LED compatible flasher unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable bulb/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W bulb-type lamps.





HCS Electronic Cold Scan Unit

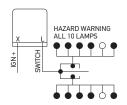
This relay is required if the vehicle is detecting indicator bulb function by scanning while the lamp is not activated (cold scanning). This scan may not be successful if the lamp is replaced with an LED lamp, however if a HELLA LED HCS lamp is used, the relay detects this and satisfies the scanning device to indicate lamp function. One relay required per lamp.



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.







Part Number	3026	2 PIN	12 VOLT
Maximum Load	1-10 x 21W		

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.



P/N 3027

X P L	HAZARD WARNING ALL 10 LAMPS
IGN + PILOT SWITCH	



Part Number	3027	3 PIN	12 VOLT
	3028		24 VOLT
Maximum Load	1-10 x 21W		

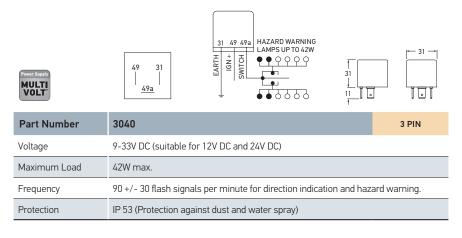
Universal Mounting Bracket

For mounting 32mm diameter HELLA flasher unit P/Ns 3026, 3027, 3028.



Part Number 8	003
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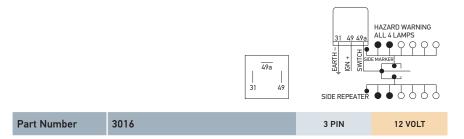
No. of Bulbs



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 bulb and LED loads from 1W to 42W.



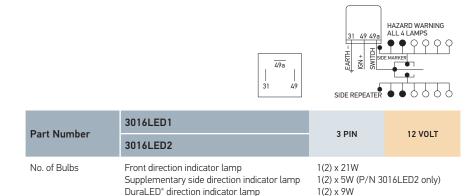


2(4) x 21W + 0 - 5W

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 P/N 5227.







P/N 3016LED2

LED Electronic Flasher Unit

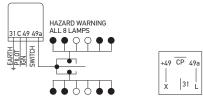
Modified version of P/N 3016 electronic flasher unit. Specifically designed for use with DuraLED $\!\!\!^\circ$ rear direction indicator lamps on motor vehicles such as prime movers, trucks and motor homes, maintaining the mandatory bulb failure warning signal function.



High Capacity Flasher Unit

Heavy duty flasher unit manufactured to take up to 200W loads.

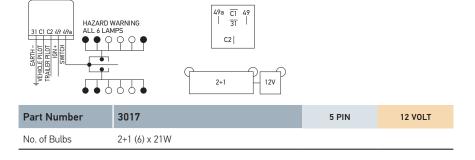




Part Number	3014	4 PIN	12 VOLT
	3015		24 VOLT
Load	10-200W		

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 P/N 5227.

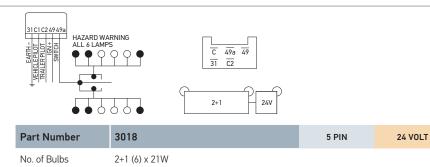


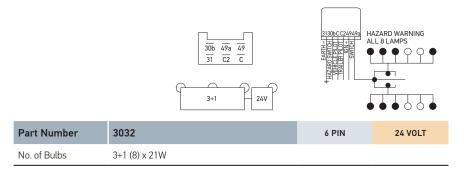


Electronic Flasher Unit - 2+1

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 P/N 5227.



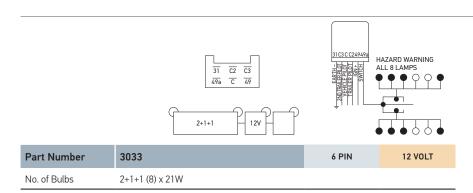




Electronic Flasher Unit - 3+1

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 P/N 5227.

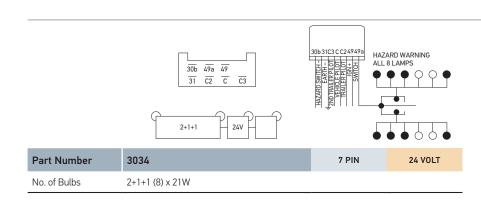




Electronic Flasher Unit - 2+1+1

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.





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. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.



Push-in Wire and Coolsplice Connectors, Fast, Easy and Reliable.

Accessories

All HELLA accessory products are extensively tested for quality, durability and function prior to being offered under the HELLA brand.





Contents

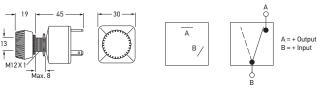
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Rotary Switch - Off-On

Rotary switch with round knob.



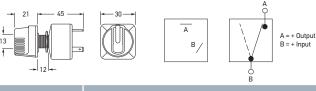


	ь	
Part Number	4020	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V 7.5A @ 24V	
Protection	IP 53 (Protection against dust and water spray)	

Rotary Switch - Off-On

Rotary switch with flat knob.



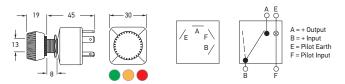


Part Number	4021	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V 7.5A @ 24V	
Protection	IP 53 (Protection against dust and water spray)	

Illuminated Rotary Switch, Off-On - 12 Volt

Illuminated by inbuilt 12V capillary bulb, complete with red, amber and green lenses.



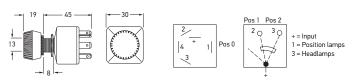


Part Number	4022	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V	
Protection	IP 53 (Protection against dust and water spray)	
Suitable for 12V only.	Bulb not replaceable.	

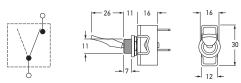
Rotary Headlamp Switch - Off-On-On

Rotary switch with round knob.





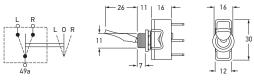
Part Number	4023	OFF-ON-ON
Mounting	12.5mm diameter opening.	
Maximum Load	23A @ 12V 11.5A @ 24V	
Protection	IP 53 (Protection against dust and water spray)	



Part Number	4456	OFF-ON
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	15A @ 12V 7.5A @ 24V	

Toggle Switch - Off-On



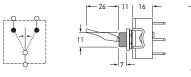


Part Number	4202	ON-OFF-ON
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	15A @ 12V 7.5A @ 24V	

Toggle Switch - On-Off-On

Toggle switch, suitable for controlling direction indicator lamps.



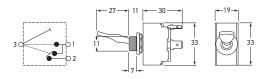


Part Number	4460	(ON)-OFF-(ON)
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	15A @ 12V 7.5A @ 24V	

Momentary Spring Return Switch - (0n)-0ff-(0n)

Momentary on-off-on, spring return aerial switch. Flick toggle with spring return to centre.





Part Number	4056	OFF-ON-ON
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	20A @ 12V 10A @ 24V	

Headlamp Switch - Off-On-On

Three position switch:

Upper = Off

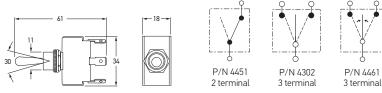
Centre = Position lamps

Lower = Headlamps and position lamps



Metal Shaft Toggle Switch





	4451	OFF-ON
Part Number	4302	ON-OFF-ON
	4461 (Momentary spring return)	(0N)-0FF-(0N)
Mounting	12mm diameter opening.	
For Panels	Up to 5mm thick.	
Maximum Load	20A @ 12V 10A @ 24V	

Metal Shaft Toggle Switch - Off-On



Part Number	4203	0FF-0N
Mounting	12mm diameter opening.	
For Panels	Up to 5mm thick.	
Maximum Load	15A @ 12V 7.5A @ 24V	

Aircraft Style Switch Cover - Red

Red aircraft style switch cover to prevent accidental switch operation.



Part Number	4455	RED
To Suit	P/Ns 4451 and 4203.	

Toggle Boot

To be used with toggle switches.





Part Number	4452	
Part Number	4452-BULK	PACK OF 10
To Suit	Toggle switch P/Ns 4302, 4451 and 4461.	

ACCESSORIES







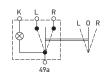


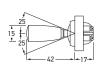
Part Number	4453	OFF-ON
	4454 (Momentary spring return)	OFF-(ON)
Mounting	13mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	8A @ 12V	

Plastic Toggle Switch











Part Number	4206	ON-OFF-ON
Mounting	19mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	6A @ 12V	
Bulb to Suit	12V 292	

Illuminated Toggle Switch, On-Off-On

Three position latching switch for indicators. Illuminates green.

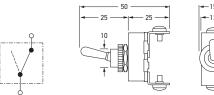




		O
Part Number	4457	OFF-ON
Mounting	12mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	6A @ 12V	

Pre-wired Toggle Switch - Off-On





Part Number	2762	0FF-0N
Mounting	11mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	20A @ 12V 10A @ 24V	
Toggle boot P/N 4452 does not fit this switch.		

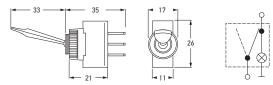
Brass Toggle Switch - Off-On

Chrome toggle and face nut. Brass construction.



CCESSORIES

Illuminated Toggle Switch, Off-On - 12 Volt







P/N 4436

P/N 4435

5	4433	RED
	4434	GREEN
Part Number	4435	AMBER
	4436	BLUE
Mounting	12.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	10A @ 12V	
Suitable for 12V only. Bu	ilb not replaceable.	

Switch Mounting Panel

Single switch mounting panel. Plastic moulded with black grain finish.

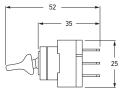




Part Number	4437	SINGLE
Mounting	12.5mm diameter opening.	









D	4421	RED
	4422	GREEN
Part Number	4423	BLUE
	4424	AMBER
Mounting	12.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	10A @ 12V	
Suitable for 12V only. Bulb not replaceable.		

Illuminated Duckbill Switch, Off-On - 12 Volt

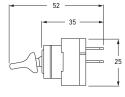


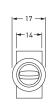


422	P/N 4423	P/N 442
422	P/N 4423	P/N 442









	1,111.125	
Part Number	4420	OFF-ON
	4152	ON-ON
Mounting	12.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	10A @ 12V 5A @ 24V	

Duckbill Switch



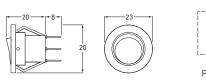


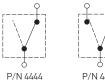
P/N 4152

Rocker Switch

Panel push fit.







Part Number	4444	OFF-ON
Part Number	4447	ON-ON
Mounting	20mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	10A @ 12V	

Illuminated Rocker Switch, Off-On - 12 Volt

Panel push fit.





P/N 4446







Part Number	4445	AMBER
	4446	RED
Mounting	20mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	10A @ 12V	
Suitable for 12V only. Bu		

LED Rocker Switch, Off-On - 12 Volt

Panel push fit.





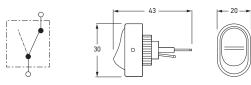




Part Number	4448	RED	
Mounting	20mm diameter opening.		
For Panels	Up to 4mm thick.		
Maximum Load	10A @ 12V		
Suitable for 12V only. LED included, not replaceable.			

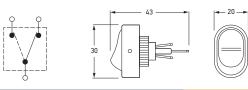
ACCESSORIES

Rocker Switch - Off-On



Part Number	4470 OFF-ON		
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V		

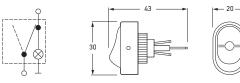




Part Number	4475	ON-ON
Mounting	12mm diameter opening.	
For Panels	Up to 5mm thick.	
Maximum Load	10A @ 12V	

Rocker Switch - On-On





Part Number	4471	AMBER	
	4472	BLUE	
	4473	GREEN	
	4474	RED	
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V		
Suitable for 12V only. Bulb not replaceable.			

Illuminated Rocker Switch, Off-On - 12 Volt



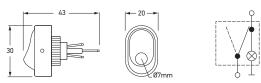


CCESSORIES

Illuminated Rocker Switch, Off-On - 12 Volt







Part Number	4476	AMBER	
	4477	GREEN	
	4478	RED	
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V		
Suitable for 12V only. Bulb not replaceable.			

LED Rocker Switch, Off-On - 12 Volt

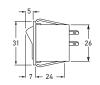




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	4479	AMBER	
Part Number	4480	GREEN	
	4481	RED	
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V		
Suitable for 12V only. LED included, not replaceable.			







Part Number	4426	OFF-ON
Mounting	29 x 12mm opening.	
Maximum Load	10A @ 12V 5A @ 24V	

Rocker Switch - Off-On

Rocker Switch - On-On

Panel push fit.

Panel push fit.







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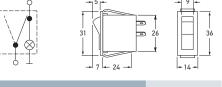
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Part Number	4151	ON-ON
Mounting	29 x 12mm opening.	
Maximum Load	10A @ 12V 5A at 24V	

Illuminated Rocker Switch, Off-On - 12 Volt

Panel push fit.

P/N 4428

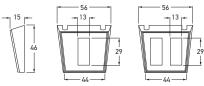


Part Number	4427	RED	
	4428	GREEN	
	4429	BLUE	
	4430	AMBER	
Mounting	29 x 12mm opening.		
Maximum Load	10A @ 12V		
Suitable for 12V only. Bulb not replaceable.			





P/N 4430



Part Number	4431	SINGLE
Part Number	4432	DOUBLE
To Suit	Rocker switch P/Ns 4426, 4427, 4428, 4429, 4430 and 4151.	

Rocker Switch Mounting Panel

P/N 4429

Plastic moulded with black grain finish.



229

CCESSORIES

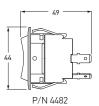
Heavy Duty Rocker Switch

Extremely robust rocker switch featuring push-on terminals and weather resistant black plastic housing. Panel push fit.





P/N 4483







P/N 4483 and 4484

	4482	OFF-ON	
Part Number	4483	ON-OFF-ON	
	4484 (Momentary spring return)	(0N)-0FF-(0N)	
Mounting	20 x 36mm opening.		
For Panels	Up to 4mm thick.		
Maximum Load	25A @ 12V 12.5A @ 24V		







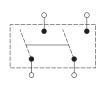
Rocker Switch, Black
- Double Pole

Panel push fit.









Part Number	4485	OFF-ON
Mounting	20 x 35mm opening.	
For Panels	Up to 4mm thick.	
Maximum Load	20A @ 12V (10A per pole)	
	· · · · · · · · · · · · · · · · · · ·	

Part Number

Maximum Load

Mounting
For Panels

4486A

4486G

4486R

20 x 35mm opening.

Up to 4mm thick.

10A @ 12V

Suitable for 12V only. LED included, not replaceable.







AMBER

GREEN

RED

LED Illuminated Rocker Switch, Off-On - 12 Volt

Panel push fit.







P/N 4486G

B6G P/N 4486R





Part Number	4487A	AMBER	
	4487B	BLUE	
	4487G	GREEN	
	4487R	RED	
Mounting	20 x 35mm opening.		
For Panels	Up to 4mm thick.		
Maximum Load	10A @ 12V		
Suitable for 12V only. Bulb not replaceable.			

Illuminated Rocker Switch, Off-On - 12 Volt

Panel push fit.









P/N 4487B

P/N 4487G

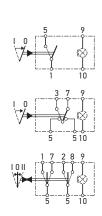
P/N 4487R

HELLA Universal Rocker Switches HELLA universal flush-fit rocker switches are readily adaptable to 12 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 234). Maximum Load 16A @ 12V, 8A @ 24V. Connectors, symbols, mounts and bulb 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			
Part Number	Symbol	Description	Function
6EH 007 832-011	LOCATION	Suitable for use with location light.	
6EH 007 832-021	PILOT	Suitable for use with location and pilot light.	ON-OFF
	LOCATION		
6EH 007 832-041	PILOT	With mechanism for blocking operation. Suitable for use with location light	
	LOCATION	and pilot light.	



MOMENTARY SPRING RETURN SWITCHES			
6GM 007 832-191	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 007 832-251	LOCATION	Suitable for use with location light.	(ON)-OFF-(ON)

CHANGE-OVER SWITCHES					
Part Number	Symbol	Description	Function		
6FH 007 832-051		Without location light, without pilot light.		0 1 7	
6FH 007 832-061	LOCATION	Suitable for use with location light.	ON-ON	5 10	
6FH 007 832-101	PILOT	Suitable for use with location light and pilot light.		1 7 2 8 10	
6FH 007 832-161		Without location light, without pilot light.	ON-OFF-ON	1011 1 7 2 8	
	PILOT	Suitable for use with location light		1 5 9	
6RH 007 832-351	LOCATION	and pilot light.		3 10	
6RH 007 832-377	PILOT	Suitable for use with location light and pilot light.		1 3 2 4 9	
OKH UU/ 632-3//	LOCATION			5 6 10	
6RH 007 832-381		Without location light, without pilot light.	OFF-ON-ON	11 1 0 2 6 1 5 4 8 3	
6RH 007 832-391	LOCATION	Max. load 16A @ 12V, 8A @ 24V. Suitable for use with location light, without pilot light.		3 7 10	
6RH 007 832-441	LOCATION	Suitable for use with location light.		2 10	
6RH 007 832-461	LOCATION	Suitable for use with location light.		1 68 9 1 68 9 3 2 10	
6RH 007 832-411	LOCATION	Suitable for use with location light.	OFF-ON- MOMENTARY ON	11 10 4 2 7 9	
6HH 007 832-281	PILOT	Max. load 10A @ 12V and 24V. Without location light. Includes pre-fitted 12V bulb. Hazard flasher switch.	IIAZARR	2 8 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
//// 007 002 224	PILOT	With location light and pilot light.	HAZARD	2 8 3 10 1 0 9 9 9 8	
6HH 007 832-301	LOCATION	Includes pre-fitted 24V bulb. Hazard flasher switch.		4 63 1 7	

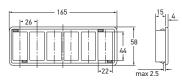




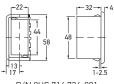
See page 236 for the range of coloured symbols.

Accessories for Switches in Model Range 007 832-...

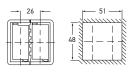




Part Number	MOUNTING PANELS		
	8HG 713 626-001 (156.1 x 48.2mm)	SIX SWITCHES	
	8HG 714 504-001 (77.6 x 48.2mm)	THREE SWITCHES	







P/N 8HG 716 734-001

P/N 8HG 716 735-001

Part Number	MODULAR MOUNTING-PANEL SYSTEM		
	8HG 716 734-001	END PIECE	
	8HG 716 735-001	MIDDLE PIECE	

Two end pieces are required to make a mounting panel.

By adding middle pieces, this panel can be extended as required.





P/N 8HG 716 735-001



Dout Number	BLANKING PLUG FOR EMPTY SWITCH APERTURES
Part Number	9HB 713 629-001



Part Number	WARNING LIGHTS		
	2AA 713 628-021		12 VOLT
	2AA 713 628-031		24 VOLT
	2AA 713 628-04	1 (LED)	12/24 VOLT
Bulbs to Suit	12V 24V	W121.2 W241.2	





Part Number	WARNING LIGHTS		
	9FF 713 627-0	001	12 VOLT
	9FF 713 627-0	011	24 VOLT
	9FF 713 627-0	031 (LED)	12/24 VOLT
Bulbs to Suit	12V 24V	W121.2 W241.2	

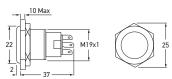


Part Number	CONNECTORS	
	8JA 713 631-001 (For switch)	8 POLE
	8JA 715 600-001 (For bulb holder)	2 POLE
	8573 (For connectors - Pack of 100)	BRASS TERMINALS





SYMBOL CARDS FOR	R SWITCHES	007 832			
Part Number	Symbol	Symbol Card	Part Number	Symbol	Symbol Card
9XT 713 630-001	Green	Without symbol	9XT 714 300-201	- +	Battery
9XT 713 630-011	Black	Without symbol	9XT 714 300-191	~ <u></u>	Temperature
9XT 713 630-021	Red	Without symbol	9XT 713 630-181	4	Window lift
9XT 713 630-031	Yellow	Without symbol	9XT 713 630-101	P	Windscreen
9XT 713 630-301	∌D	Light	9XT 713 630-121	\$	Window wiper/wash
9XT 714 300-131	≣ D	Main beam	9XT 713 630-131	1	Windscreen wash
9XT 713 630-351	\$0	Fog lamp	9XT 713 630-231	333	Heated rear window
9XT 713 630-421	∌Ď	Work lamp front	9XT 713 630-481	4	Heated outside mirror
9XT 713 630-701	<u></u>	Work lamp rear	9XT 713 630-521	⊘ ⊧	Defroster
9XT 714 300-141	\$ \$	Flasher lamp	9XT 713 630-461		Air horn
9XT 713 630-391		Warning lamp	9XT 713 630-291	₹	Fresh air
9XT 713 630-511	公	Map lamp	9XT 713 630-681	*	Roof fan
9XT 713 630-491	恋	Driving compartment lighting	9XT 713 630-201	000	Heater
9XT 713 630-641	<i>\$</i> ;⊡	Boot lighting	9XT 713 630-221	%	Heater fan
9XT 713 630-261	-\\\\-	Main light	9XT 713 630-401	\$	Fast
9XT 713 630-371	<i>jiii</i>	Work light	9XT 713 630-691	1990 A	Slow
9XT 713 630-281	Ĭ.	Rotating beacon	9XT 713 630-551	1	Front door
9XT 713 630-711	Ţ	Rotating beacon	9XT 713 630-561	2 ▶	Rear door
9XT 714 300-181	ميّے،	Lubrication	9XT 713 630-621		Lower
9XT 714 300-011	(P)	Parking brake	9XT 714 300-051		Change-over tanks
Interior Lighting			Fan		
9XT 713 630-271	於於	High	9XT 713 630-251		Fast
9XT 714 300-031	₹	Medium			
9XT 713 630-501	$\overline{\mathcal{A}}$	Low	9XT 713 630-531	<i>3</i> 75	Slow



	12 VOLT	24 VOLT		
Part Number	8HG 958 455-001	8HG 958 455-101	RED	
	8HG 958 455-011	8HG 958 455-111	BLUE	
Mounting	19mm diameter opening.			
Maximum Load	5A			
Protection	IP 67 (Protection against dust and temporary water immersion)			
For Panels	Up to 10mm thick.			

12 VOLT

8HG 958 455-201

8HG 958 455-211

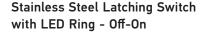
Up to 10mm thick.

Part Number

Maximum Load Protection

Mounting

For Panels



Exterior 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.

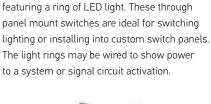




P/N 8HG 958 455-011

Stainless Steel Momentary Switch with LED Ring - Off-(On) Exterior durable, 304 stainless steel switches

24 VOLT 8HG 958 455-301 RED 8HG 958 455-311 BLUE 19mm diameter opening. IP 67 (Protection against dust and temporary water immersion)



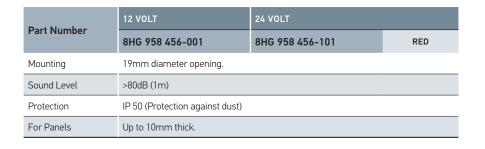




P/N 8HG 958 455-211

Stainless Steel Buzzer with LED Ring

Exterior durable, 304 stainless steel warning buzzer to match stainless steel switches (above). Also feature a ring of LED light.





Momentary Spring Return Switch - Off-(On)

Off-momentary on push button (spring return).





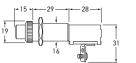


Part Number	4507	OFF-(ON)
Mounting	12mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	6A @ 12V	

Momentary Spring Return Push Button Starter Switch - Off-(On)

Brass construction. Chrome plated face nut and button. Off-momentary on push button (spring return).









Part Number	2763	OFF-(ON)
Mounting	16mm diameter opening.	
For Panels	Up to 25mm thick.	
Maximum Load	20A @ 12V 10A @ 24V	

Foot Operated Dipper Switch

Push on terminals. Latching spring return mechanism.





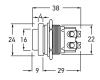




Part Number	4100	ON-ON
Mounting	Surface mount.	
Maximum Load	12A @ 12V 6A @ 24V	









Momentary Spring Return Push Button Switch - Off-(On)

Off-momentary on push button (spring return) switch.



Part Number	4501	OFF-(ON)
Mounting	22.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	16A @ 12V 8A @ 24V	







Part Number	4502	OFF-(ON)
Mounting	Surface mount.	
Maximum Load	10A @ 12V 5A @ 24V	

Momentary Spring Return Push Button Switch - Off-(On)

Chrome body. Off-momentary on push button (spring return) switch.







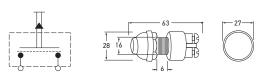


Part Number	4503	OFF-(ON)
Mounting	22.5mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	16A @ 12V 8A @ 24V	
Do not remove rubber cap/front face nut when fitting.		

Momentary Spring Return Push Button Switch - Off-(On)

Water resistant push button type switch with rubber cap. Off-momentary on push button (spring return).





Part Number	4506	OFF-(ON)
Mounting	16mm diameter opening.	
For Panels	Up to 10mm thick.	
Maximum Load	60A @ 12V 40A @ 24V	

Momentary Spring Return Push Button Switch - Off-(On)

Water resistant starter switch.

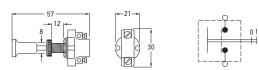
Off-momentary on push button (spring return).



Long Reach Switch - Off-On

Two position long reach switch.



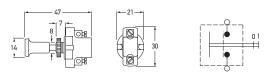


Part Number	4400	OFF-ON
Mounting	9mm diameter opening.	
For Panels	Up to 12mm thick.	
Maximum Load	10A @ 12V 5A @ 24V	

Short Reach Switch - Off-On

Two position short reach switch.



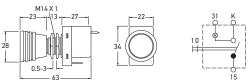


Part Number	4403 OFF-ON			
Mounting	9mm diameter opening.			
For Panels	Up to 2mm thick.			
Maximum Load	10A @ 12V 5A @ 24V			

Illuminated Switch - Off-On

Knob incorporates red or green pilot lamp.



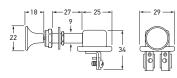






Part Number	4411	GREEN	
	4412	RED	
Mounting	14mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V 5A @ 24V		
Bulb to Suit	12V W121.2 24V W241.2		



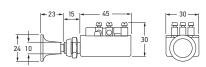


Part Number	2761 OFF-ON			
Mounting	10mm diameter opening.			
For Panels	Up to 25mm thick.			
Maximum Load	20A @ 12V 10A @ 24V			

Brass Switch - Off-On

Chrome knob and face nut. Brass construction.



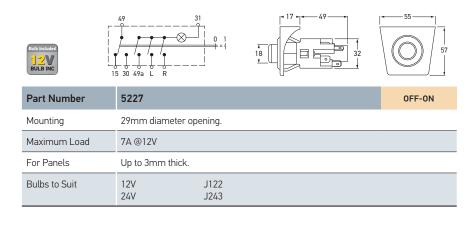


Part Number	4055 OFF-ON-ON		
Mounting	11mm diameter opening.		
For Panels	Up to 10mm thick.		
Maximum Load	10A @ 12V 5A @ 24V		

Headlamp Switch - Off-On-On

Three position headlamp switch without pilot lamp. Features black grip and 20 amp glass fuse.





Hazard Warning Switch

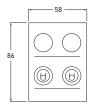
For cars, trucks, buses with and without trailers. Black plastic mounting panel. Red knob with pilot lamp. Includes 8 pole multiple adaptor. Push-on 6mm terminals supplied. Wiring diagram and instructions are included.



Micro Switch Panel - LED Backlight

Micro switch panel modules can be added together horizontally or vertically giving numerous installation options. Each module also has red and green LED backlighting. Circular labels allow vertical, horizontal, left or right mounting.





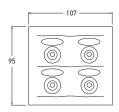


Part Number	2687	2 X OFF-ON	
	2688	1 X 0FF-0N 1 X 0N-0FF-0N	
	2689	1 X OFF-ON 1 X (ON)-OFF-(ON)	
Voltage	Multivolt™, suitable for 12 and 24 volt systems.		
Housing	Impact resistant plastic.		
Switches	Toggle, momentary or 3 way (on-off-on).		
Maximum Load	20A @ 12V		

Compact Switch Panel - Off-On

Splash proof switch panel protected with neoprene rubber boots. Inline fuse holders with fuses behind panel.



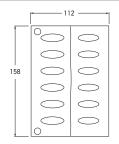


Part Number	2690 (4 way)	OFF-ON
	2691 (6 way)	OFF-ON
Housing	Impact resistant plastic.	
Switches	4 or 6 off-on toggle switches.	
Maximum Load	20A @ 12V	

Switch Panel, LED Backlight - Off-On

Splash proof switch panel featuring LED backlit labels. Protected by neoprene rubber boots. Removable cover plate over switches conceals screws.



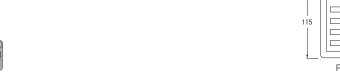




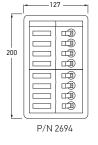
Part Number	2692 (6 way) OFF-ON		
Voltage	Multivolt [™] , suitable for 12 and 24 volt systems.		
Housing	Impact resistant plastic.		
Switches	6 off-on toggle switches.		
Maximum Load	20A @ 12V		

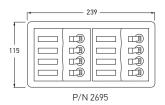






	2693 (4 way)		
Part Number	2694 (8 way vertical)		OFF-ON
	2695 (8 way horizontal)		
Voltage	Multivolt [™] , suitable for 12 and 24 volt systems.		
Configuration	4 Way 1 x 5A/2 x 10A/1 x 15A 8 Way 2 x 5A/2 x 10A/3 x 15A/1 x 20A		





Switch Panel With Integrated Circuit Breakers and LED Backlight

Pre-wired switch panel with integrated circuit breakers and LED backlit labels.
Pre-wired and suitable for 12 or 24V systems.
Powder coated aluminium base plate.





Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key. For interrupting circuits (prevents theft and short circuit).







Part Number	4650 OFF-ON		OFF-ON
Mounting	24mm diameter opening		
Maximum Load	12V 24V	1000A for up to 10 seconds. 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.		
Spare Part	4652	Spare key	
Switch not designed for Marine applications.			

Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key.







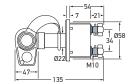
Part Number	4640		OFF-ON
Mounting	Recess or surface mount.		
Maximum Load	12/24V 1250A for up to 10 seconds		
Maximum Continuous Load	12/24V	275A	
Termination	2 x 10mm studs.		
Spare Part	4641	Spare key	

Battery Master Switch

Suitable for cars and medium sized trucks, with a continuous rating of 250 amps.

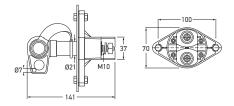
Provides effective protection against theft and fire in case of accidents. With sealing cap when not in use which doubles as a key holder.







Part Number	4649		OFF-ON
Mounting	22mm diameter opening.		
Maximum Load	24V 2000A for 5 seconds		
Maximum Continuous Load	12/24V	250A	
Termination	2 x 10mm studs.		
Protection	IP 65 (Protection against dust and water jets)		

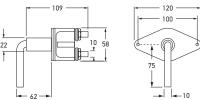


Part Number	4648	4648		
Mounting	22mm diamete	22mm diameter opening.		
Maximum Load	24V	24V 2500A for 10 seconds		
Maximum Continuous Load	12/24V	500A		
Termination	2 x 10mm studs.			
Protection	IP 65 (Protection against dust and water jets)			

High Capacity Battery Master Switch

Suitable for trucks and other commercial machinery, with a high continuous rating of 500 amps. Provides effective protection against theft and fire in case of accidents. With sealing cap when not in use which doubles as a key holder.





		02 21	
Part Number	4653		OFF-ON
Mounting	22mm diameter op	pening.	
Maximum Load	12V 24V	5000A for 10 seconds. 2500A for 10 seconds	
Maximum Continuous Load	12/24V 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.		

Heavy Duty Battery Master Switch

For trucks, buses and earth moving equipment. Complete with removable key.

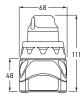


Battery Master Switch

Battery master switch with threaded collar. Suitable for cars and medium sized trucks. Complete with removable key, labelled handle and removable back cover. For interrupting circuits (prevents theft and short circuit).









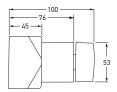
Part Number	4722		OFF-ON
Mounting	Recess or surface mount. 25mm diameter opening.		
Maximum Load	12/24V 1250A for up to 10 seconds.		
Maximum Continuous Load	12/24V	275A	
Termination	2 x 10mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		

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.





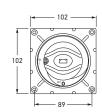


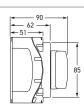
Part Number	4724		OFF-ON
Mounting	Recess or surface mount. 55mm diameter opening.		
Voltage	12/24V		
Power Consumption	2W @ 12V when op	perating, 0.25W static.	
Maximum Load	12/24V	1250A for up to 10 seconds.	
Maximum Continuous Load	12/24V	275A	
Termination	2 x 10mm studs.		
Cable Length	500mm		

Heavy Duty Battery Master Switch

For commercial use. Features sliding contact for self cleaning.

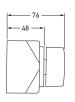






Part Number	4720		OFF-ON
Mounting	Recess or surface mount. 85mm diameter opening.		
Maximum Load	12/24V 2500A for up to 10 seconds.		
Maximum Continuous Load	12/24V	600A	
Termination	2 x 12mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		



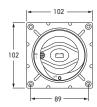


Battery Selector Switch

Battery switch to select either from two power sources or combine together. Will also isolate from the power sources.



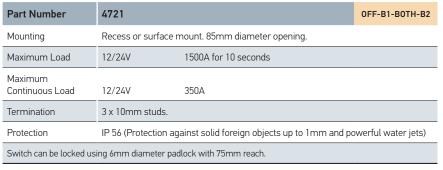
Part Number	4723		OFF-B1-B0TH-B2
Mounting	Recess or surface mount.		
Maximum Load	12/24V 1000A for up to 10 seconds.		
Maximum Continuous Load	12/24V	200A	
Termination	3 x 5/16" studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		





Battery Selector Switch

Battery switch to select either from two power sources or combine together. Will also isolate from the power sources.

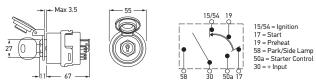




Diesel Pre-heating Starter Switch

Pre-heating starter switch supplied with two keys. Key removes in park and off.





Part Number	4005
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	Р	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.



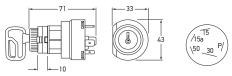


Part Number	4008
Mounting	19mm diameter opening.
For Panels	Up to 19mm thick.
Maximum Load	@12V ignition 25A, start 12A, accessory 15A.
Spare Part	Blank key number Silica BH4.
Function	Four position switch (accessory, off, ignition, start).

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.





Part Number	4008HD
Mounting	19mm diameter opening.
For Panels	Up to 10mm thick.
Maximum Load	@12V park 20A, ignition 20A, start 25A.
Function	Four position switch (park, off, ignition, start). Key removes in park and off.

Part Number

Mounting

For Panels

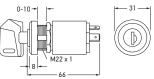
Function

Maximum Load





Four position switch (accessory, off, ignition, start).

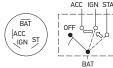


	75 = Acces	8 — M22 × 1 66 —
4009		22MM SHAFT
4010		18MM SHAFT
4009 4010	22.5mm diameter ope 18.5mm diameter ope	3
Up to 19m	nm thick.	
@12V igni	ition 25A, start 50A, accessory 20	A.

Ignition and Starter Switch

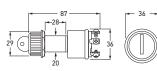
Two keys supplied. Start-lockout mechanism to prevent accidental engagement of starter.











Part Number	2766
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)

Ignition and Starter Switch

Four position switch with spring loaded return. Four screw terminals.

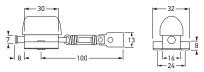


CCESSORIES

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.



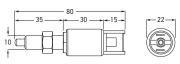


Part Number	4560	OFF-ON
Maximum Load	10A @ 12V 5A @ 24V	

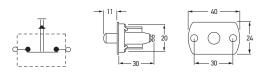
Stop Lamp Switch - On-Off

Thread M10 x 1.25. Suits most Japanese vehicles.





Part Number	4562	ON-OFF
Maximum Load	10A @ 12V	

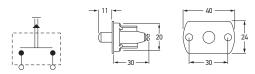


Part Number	4550	ON-OFF
Mounting	21mm diameter opening.	
Maximum Load	2A @ 12V 1A @ 24V	

Door Contact Switch - On-Off

Switch closes circuit if door is opened.



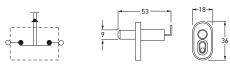


Part Number	4551	OFF-ON
Mounting	21mm diameter opening.	
Maximum Load	2A @ 12V 1A @ 24V	

Door Contact Switch - Off-On

Switch opens circuit if door is opened. May be used as safety cut-off switch.



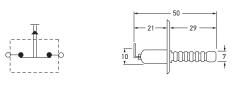


Part Number	4553 ON-OFF	
Mounting	12mm diameter opening and screw.	
Maximum Load	3.5A @ 12V	
Plunger automatically adjusts to door gap on initial operation.		

Door Contact Switch - On-Off

Switch closes circuit if door is opened. Corrosion proof black plastic. Rubber seal. Push-on terminal.





Part Number	4554	ON-OFF
Mounting	10mm diameter opening and screw.	
Maximum Load	5A @ 12V	

Door Contact Switch - On-Off

Extended arm which may be cut to length to suit opening.

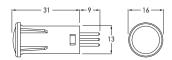


Pilot Lamp - 12 Volt

Panel push fit pilot lamp with non-replaceable bulb. See page 253 for function descriptions.







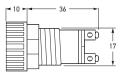
5 . W . I	2708	RED
	2709	GREEN
Part Number	2710	BLUE
	2711	AMBER
Mounting	12.5mm diameter opening.	
Voltage	12V	
Suitable for 12V only. Bulb not replaceable.		

Pilot Lamp

Pilot lamp utilizing bayonet based bulb for use under heavy duty conditions. See page 253 for function descriptions.





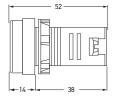






Part Number	2712	RED
	2713	GREEN
	2714	BLUE
	2715	AMBER

Mounting	17mm diameter opening.	
Bulbs to Suit	12V 24V	H122 H242





LED Pilot Lamp

Heavy duty multi-chip LED pilot lamp featuring shock-resistant one-piece construction for long service life and polycarbonate lens. See below for function descriptions.

	2716 2716-24V	RED	
	2/10-244		
	2717	GREEN	
	2717-24V	J.,,	
Part Number	2718	AMBER	
rai (Nullibei	2718-24V	AMREK	
	2719	WHITE	
	2719-24V		
	2720	BLUE	
	2720-24V	BLUE	
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.		





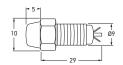


/N 2717





P/N 2719 P/N 2720



LED Pilot Lamp, Chrome Body - 12 Volt

Pilot lamp featuring chrome body and available in four colour variants. See below for function descriptions.

5	2721	RED
	2722	GREEN
Part Number	2723	BLUE
	2724	AMBER
Mounting	8mm diameter opening.	
For Panels	Up to 10mm thick.	
Suitable for 12V only. LED included, not replaceable.		
Suitable for 12V only. LED included, not replaceable.		







P/N 2722

P/N 2723

P/N 2724

RED	Ignition, handbrake and hazard warning lamps
GREEN	Indicator lamps
BLUE	Main beam and auxiliary headlamps
AMBER	Fog lamps

Trailer Connector Wiring Specifications

Cable Entry View









5 Pole Socket

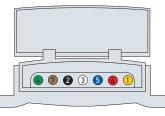
5 Pole Plug

7 Pole Socket

7 Pole Plug

5 POLE CONNECTOR WIRING SPECIFICATIONS		
Terminal Number	Connect to	
2	Left-hand flasher lamps	
3	Earth return	
5	Right-hand flasher lamps	
6	Stop lamps	
7	Rear position, number plate and clearance lamps	

Front View





7 Pole Flat Socket

7 Pole Flat Plug

7 POLE CONNECTOR WIRING SPECIFICATIONS		
Terminal Number	Connect to	
1	Left-hand flasher lamps	
2	Reversing lamps	
3	Earth return	
4	Right-hand flasher lamps	
5	Service brakes (or Auxiliary)	
6	Stop lamps	
7	Rear position, number plate and clearance lamps	
Where service brakes are not fitted, terminal no.5 may be used for auxiliaries.		

Trailer Plug Holder

Minimises potential damage to plug, to suit P/Ns 4902 and 4911.



Part Number	8000
Mounting	Simple screw mounting on caravan/trailer drawbar or any convenient location.

Trailer Socket Bracket

Zinc plated steel. To suit P/Ns 4901 and 4912.



art Number	8005
------------	------

Trailer Socket Bracket

Zinc plated steel. To suit P/Ns 4901 and 4912.



art Number	802

7 Pole Plastic Socket

Black plastic socket with removable contact set. P/N 4901X with disconnecting contact for rear fog or rear parking sensors.

Part Number	4901	
Part Number	4901X	
Maximum Load	16A @ 12V with 1.5mm² cable (total). 25A @ 12V with 2.5mm² cable (total).	
Accessory	9.4901.05 Gasket with cable exit	



P/N 9.4901.05

7 Pole Plastic Plug

Black plastic plug with strain relief.

Part Number	4902
Maximum Load	16A @ 12V with 1.5mm² cable (total) 25A @ 12V with 2.5mm² cable (total)



7 Pole Plastic Socket

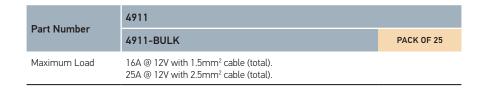
Simply stores in boot until required. Requires no permanent bumper mounting.



Part Number 4909 Maximum Load 16A @ 12V with 1.5mm² cable (total) 25A @ 12V with 2.5mm² cable (total)

7 Pole Metal Plug

Solid metal plug with cable strain relief.





7 Pole Metal Socket

Solid metal socket with removable contact set.

Part Number	4912	
Part Number	4912-BULK	PACK OF 25
Maximum Load	16A @ 12V with 1.5mm² cable (total). 25A @ 12V with 2.5mm² cable (total).	



7 Pole Flat Socket

Impact resistant, UV stabilised plastic spring loaded lid. Nickel plated contacts for excellent electrical performance.



Part Number	4920	
Part Number	4920-BULK	PACK OF 50
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Flat Plug

Impact resistant, UV stabilised plastic. Nickel plated contacts for excellent electrical performance.



A921		
Part Number	4921-BULK	PACK OF 50
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

Flat Trailer Plug Holder

Flat plug holder to suit P/N 4921.



	Don't Number	8009	
Part Number	8009-BULK	PACK OF 20	

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5/7 Pole ABS Socket

Made of black fibreglass reinforced nylon.



Part Number	8JB 007 645-021		CRIMP
Part Number	8JB 007 645-031		SCREW
Mounting	54mm diameter opening.		
Maximum Load	25A @ 24V (total)		
Cable	Suitable for cable 9 - 16mm in diameter.		
Spare Parts	9MK 726 762-831 Crimp contact set – 5 x 1.5mm², 2 x 4.0mm², 2 x 6.0mm², 2 x Blanks.		





Part Number	8JA 007 644-041		CRIMP
	8JA 007 644-051		SCREW
Maximum Load	25A @ 24V (total)		
Spare Parts		Crimp contact set – 5 x 1.5mm², 2 x 4.0mm², 2 x 6.0mm², 2 x Blanks.	
Cable	Suitable for cable 11 - 13mm in diameter.		

5/7 Pole ABS Plug

Made of black fibreglass reinforced nylon.



Plug-in Socket Tester

Designed for testing ABS sockets (ISO 1185).



Part Number 8PD 004 508-031

Crimp Tool

Professional crimping tool for crimp contact pins and sleeves measuring from 1.5-6mm².





GGVSEB/ADF

Part Number	8KA 007 648-001 (ABS)		5 PIN
Part Number	8KA 007 648-021 (EBS)		7 PIN
Cable	5 Pin 7 Pin	3 x 1.5mm ² + 2 x 4.0mm ² 5 x 1.5mm ² + 2 x 4.0mm ²	
Cable Length	Up to 4.0m		

ABS/EBS Spiral Cable - 24 Volt

Spirally coiled cable with 2 plugs and guard grommets. Extremely resistant to high and low temperatures as well as weathering. High resistance to oils and chemicals. Made to withstand repeated bending.



7 Pole Heavy Duty Plug and Socket

Plug and socket made from metal, with screw terminals (ISO 1185).



Part Number	4907	SOCKET
	4908	PLUG
Maximum Load	15A @ 24V with 1.5mm² cable (total) 20A @ 24V with 2.5mm² cable (total)	
Cable	Suitable for cable 9.5 - 12.5mm in diameter.	



P/N 4908

13 Pole Plug and Socket

Socket with lid made from black plastic (ISO 11 446). Screw contacts.



Part Number	8JB 005 949-001	SOCKET
	8JA 005 951-001	PLUG
Maximum Load	16A @ 24V with 1.5mm² cable (total) 25A @ 24V with 2.5mm² cable (total)	



P/N 8JA 005 951-001

Part Number

Maximum Load

13 Pole to 7 Pole Adaptors

Adaptors for connecting a 13 pole vehicle socket with a 7 pole trailer plug.



Part Number	8JA 005 952-001
Maximum Load	16A @ 12V (total)
To suit late model vehicles with 13 pole plugs to standard round 7 pole, 250mm long.	

8JA 008 969-001

16A @ 12V (total) To suit late model vehicles with 13 pole plugs to standard round 7 pole.



Part Number	8JA 005 952-005
Maximum Load	16A @ 12V (total)
To suit late model vehicl	es with 13 pole plugs to standard flat 7 pole, 250mm long.







Part Number	8JA 007 241-021	SCREW
	8JA 007 241-031	CRIMP
Maximum Load	16A @ 24V with 1.5mm² cable (total) 25A @ 24V with 2.5mm² cable (total)	
Cable	Suitable for cable diameter measuring 12 - 18mm.	

15 Pole Plastic Plug

Plastic plug with rubber gasket and nickel-plated pins. Featuring fibre glass reinforced polyamide housing and mechanical strain relief. Secure arrest with rust resistant metal bail (ISO 12 098).





Part Number	8JB 007 242-011	SCREW
	8JB 007 242-021	CRIMP
Maximum Load	16A @ 24V with 1.5mm² cable (total) 25A @ 24V with 2.5mm² cable (total)	
Cable	Suitable for cable diameter measuring 12 - 18mm.	

15 Pole Plastic Socket

Plastic socket with lid, rubber gasket and nickel-plated pins. Featuring fibre glass reinforced polyamide housing. PC gland for cable exit.





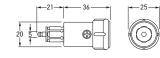
Part Number	8KA 007 648-041
Cable	12 x 1.5mm² plus 3 x 2.5mm² leads.
Cable Size	4m (stretched).

15 Pole Spiral Cable - 24 Volt

Spirally coiled cable with 2 plugs and guard grommets. Extremely resistant to high and low temperatures as well as weathering. Maximum resistance to oils and chemicals. Made to withstand repeated bending.



2 Pole Plug

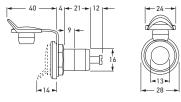




Part Number	4914	PLUG
Maximum Load	32A @ 12V 16A @ 24V	
Sockets to Suit	P/Ns 4915, 4916, 4917 and 4918.	

2 Pole Socket with Cover



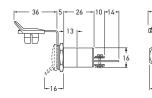


Part Number	4915	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Socket with Cover



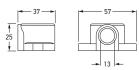




Part Number	4916	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Surface Mount Socket

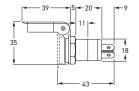




Part Number	4917	SOCKET
Mounting	Surface mount.	
Maximum Load	32A @ 12V 16A @ 24V	

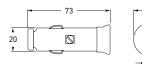
2 Pole Socket with Metal Earth Tab and Cover







Part Number	4918	SOCKET
Mounting	22mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	



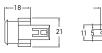
Part Number	4950	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Socket to Suit	4943-R	

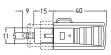
2 Pole Power Plug

Suitable for standard cigarette sockets.



2 Pole Universal Power/DIN Plug

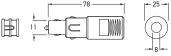






Part Number	4951	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Sockets to Suit	P/Ns 4915, 4916, 4917, 4918 and 4943-R.	





Part Number	4952	PLUG
Maximum Load	8A @ 12V	
Sockets to Suit	P/Ns 4915, 4916, 4917, 4918 and 4943-R.	

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).



2 Pole Power Socket

2 pole lighter size power socket with protective cover for connection of a variety of electrical accessories.



Part Number	4943-R	SOCKET
Maximum Load	15A @ 12V	

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.



Part Number	4939	SOCKET
Maximum Load	10A	



Super Tone Horn - Set of 2

Traffic blaster, generates a penetrating strong tone. Robust housing in a first-class design with striking grille. P/N 6037 also suitable for off-road use.

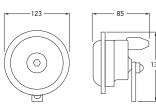


P/N 6036





Rear view



	6036		12 VOLT	
Part Number	6037		12 VOLI	
	6037-24V		24 VOLT	
Power Consumption	6036 6037 6037-24V	66W x 2 78W x 2 84W x 2		
Frequency	P/N 6036 P/N 6037/6037-24V	300/500Hz 375/500Hz		
Sound Level	118dB			

Twin Tone Scroll Horn - Set of 2

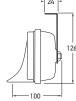
Includes 12 volt relay.





Packaging

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97 ((((((((((((((((((((
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110	



Part Number	6004		12 VOLT
Power Consumption	72W x 2		
Voltage	12V		
Frequency	High Tone Low Tone	500Hz 400Hz	
Sound Level	Combined 110dE	@ 2.0m	
·	•	·	

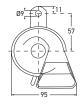
Twin Tone Scroll Horn - Set of 2

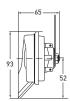
Galvanised metal housing and plastic trumpet. Safe from corrosion.





Packaging





Part Number	6005	12 VOLT
Power Consumption	72W x 2	
Voltage	12V	
Frequency	High Tone 500Hz Low Tone 400Hz	
Sound Level	Combined 110dB @ 2.0m	

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Low Tone Disc Horn

Single bolt mount. 92mm diameter.

Part Number	6001	12 VOLT
	6002	24 VOLT
Power Consumption	72W	
Frequency	335Hz	
Sound Level	110dB @ 2.0m	



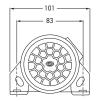
High Tone Disc Horn

Single bolt mount. 92mm diameter.

Part Number	6003	12 VOLT
	6020	24 VOLT
Power Consumption	72W	
Frequency	435Hz	
Sound Level	110dB @ 2.0m	









Part Number	6012		102dB
Mounting	Integrated universa	al mounting bracket for upright, pendant or su	urface mounting.
Voltage	12-24V		
Current Draw	0.3A		
Frequency	Back-up alarm High Tone Low Tone	100 - 1500Hz 1000 - 1500Hz 80Hz (+/- 37%)	
Sound Level	102 +/- 4dB at 1.2n	n	
Temperature Range	-40°C to +85°C		
Protection	IP 66 (Protection ag	gainst dust and high pressure washing)	
Spare Part	6041	Activating switch (see page 265)	
Compliance	SAE J994 Type F		

Multivolt™ Reversing Alarm and Signal Horn

Heavy duty reversing alarm with integrated, dual-tone signal horn. Reverse polarity and transient voltage spike protection.





P/N 6041

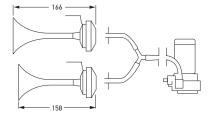
Dual Trumpet Air Horn Kit

Installation accessories included.





Blister packaging

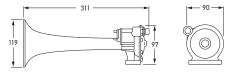


Part Number	6014	12 VOLT
	6027	24 VOLT
Mounting	Installation accessories included.	
Current Draw	20A @ 12V 10A @ 24V	
Frequency	840/795Hz	
Sound Level	117dB	
Operating Pressure	110Kpa (16psi)	

Compressed Air Operated Horn

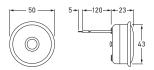
Ideal for trucks and buses. Grey shock-proof and corrosion resistant trumpet. This horn is designed to operate directly from the truck's air supply via the existing horn-button or separate switch.





Part Number	6025	12 VOLT
	6026	24 VOLT
Power Consumption	36W @ 12V, 48W @ 24V	
Frequency	400Hz	
Sound Level	118dB (at 2.0m)	
Operating Pressure	620-860Pa (90 - 125psi)	
Air Tube: 10mm internal	diameter	

264



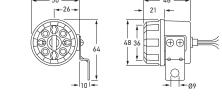
Part Number	6021		85dB
	6022		osub
Voltage	P/N 6021 P/N 6022	12V 24V	
Power Consumption	6W		
Current Draw	12V 24V	Less than 50mA Less than 25mA	
Sound Level	85dB		

Warning Buzzer

Piercing continuous sound. Suitable for a variety of applications e.g. headlamp, oil, handbrake, indicator, temperature, door close/open, brake fluid, etc.







Part Number	6023	89dB
Voltage	12-36V	
Current Draw	Less than 50mA.	
Sound Level	89 +/- 2dB (at 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.



Activating Switch

Single direction. Off-on switch. Suits all reversing alarms and buzzers.

Part Number	6041	OFF-ON
Mounting	Adjacent to the gear shift lever or linkage.	
Protection	IP 55 (Protection against dust and water jets)	



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.





P/N 9.6008.06







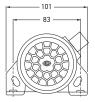
	6008		90dB
	6009		97dB
Part Number	6010		107dB
	6011		97dB
Mounting	Integrated universal mounting brack	et for upright, pendant or su	urface mounting.
Voltage	12-24V (P/N 6011 - 12-48V)		
Current Draw	P/N 6011 0.1A P/N 6008/6009 0.2A P/N 6010 0.3A		
Frequency	60 signals per minute (± 20%).		
Sound Level	P/N 6008 90 ± 4dB @ 1.2m P/N 6009 97 ± 4dB @ 1.2m P/N 6010 107 ± 4dB @ 1.2m P/N 6011 97 ± 4dB @ 1.2m		
Temperature	Operating range -40°C to 85°C.		
Protection	IP 66 (Protection against dust and high pressure washing)		
Spare Part	9.6008.06 Plug and lea	d	
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.









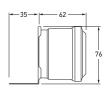


Part Number	6013	82-102dB	
Mounting	Integrated universal mounting bracket for upright, pendant or s	urface mounting.	
Voltage	12-24V		
Current Draw	0.4A		
Frequency	60 signals per minute (± 20%).		
Sound Level	82 - 102 ± 4dB @ 1.2m		
Temperature	Operating range -40°C to 85°C.		
Protection	IP 66 (Protection against dust and high pressure washing)		
Spare Part	9.6008.06 Plug and lead		
Compliance	SAE J994		









	6042	87dB	
Part Number	6043	97dB	
	6044	112dB	
Mounting	Universal mounting comes complete with heavy-gauge plated steel mounting bracket. Can be installed on positive and negative ground vehicles.		
Voltage	12-24V (P/N 6043/6044 - 12-48V)		
Current Draw	Less than 0.20A		
Frequency	80 signals per minute +/- 20%		
Sound Level	P/N 6042 87dB @ 1.2m P/N 6043 97dB @ 1.2m P/N 6044 112dB @ 1.2m		
Temperature	Operating range -40°C to 74°C		
Protection	Protection against dust and high pressure washing		
Compliance	SAE J994		

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.



Broadband Reversing Alarm

Reversing alarm with multi-frequency broadband sound.





Part Number	6050-SA	77-97dB
Mounting	Integrated universal mounting bracket for upright, pendant or st	urface mounting.
Voltage	12-24V	
Current Draw	Less than 1A.	
Frequency	White noise/broadband.	
Sound Level	P/N 6050-SA 77-97 ± 4dB @ 1.2m	
Temperature	Operating range -40 to 85°C.	
Protection	IP 68 (Protection against dust and water immersion)	
Compliance	SAE J994 (€	

Broadband Reversing Alarm

Reversing alarm with multi-frequency broadband sound.





Part Number	6051	92dB
	6052	97dB
Mounting	Integrated universal mounting bracket for upright, pendant or st	urface mounting.
Voltage	12-24V	
Current Draw	Max. 0.5A	
Frequency	White noise/broadband.	
Sound Level	P/N 6051 92 ± 4dB @ 1.2m P/N 6052 97 ± 4dB @ 1.2m	
Temperature	Operating range -40 to 85°C.	
Protection	IP 68 (Protection against dust and water immersion)	
Compliance	SAE J994	







Part Number	6047	82-107dB AUTO
Mounting	Universal mounting brackets.	
Voltage	12-48V	
Current draw	Less than 0.25A	
Frequency	80 signals per minute.	
Sound level	82 to 107dB @ 1.2m	
Temperature	-40°C to 77°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.





Part Number	6048	87-112dB AUTO
Mounting	Universal mounting brackets.	
Voltage	12-24V	
Current draw	Less than 0.50A	
Frequency	80 signals per minute.	
Sound level	87 to 112dB @ 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.





Part Number	6049	107/112dB MANUAL
Mounting	Universal mounting brackets.	
Voltage	12-24V	
Current draw	Less than 0.8A	
Frequency	80 signals per minute.	
Sound level	107 or 112dB @ 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.		

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.

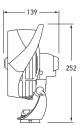


Oscillating Turbo 2.0 Fan - Two Speed

Highly regarded HELLA turbo fans are strengthened by the arrival of the Turbo 2.0 series, now featuring an oscillating function to deliver refreshingly cool air circulation on board. Turbo 2.0 fans continue with HELLA's benchmark quiet operation, low power consumption and proven durable materials.







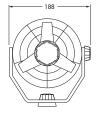
Part Number	8EV 003 366 012 (Black)	12 VOLT
Part Number	8EV 003 366-022 (White)	
Switch	Integrated 2 stage rotary	
Output	Speed 1: 70 litre/sec. Speed 2: 95 litre/sec.	
Power Consumption	<4W (<0.33A@12V)	
Cable Length	Pre-wired with 1.8m of cable.	

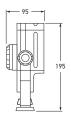


Turbo Fan

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.







Part Number	8EV 003 361-002	12 VOLT	
	8EV 003 361-022 (White)	12 VOLI	
	8EV 003 361-012	24 VOLT	
Power Consumption	6.5W		
Cable Length	Pre-wired with 140mm of cable.		
Min. Service Life	5000 hours (tested under extreme conditions)		

CRIMPING TOOL - INSULATED TERMINALS
Part Number

8271

Specially designed for the handyman and hobbyist, a useful crimping tool that cuts cable, strips cable insulation and crimps all popular insulated terminals.

Part Number CRIMPING TOOL - INSULATED TERMINALS

8272

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.

Part Number CRIMPING TOOL - INSULATED TERMINALS

8273

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for insulated terminals.

Part Number CRIMPING TOOL - NON-INSULATED TERMINALS

8274

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for open barrel non-insulated terminals.

Part Number CRIMPING TOOL - DT TERMINALS

8275

Specially designed crimping tool with multiple jaws for an even crimp of DT terminals. See pages 272-273 for DT connectors.

Part Number CRIMPING TOOL - SUPER SEAL TERMINALS

Crimping tool designed for use with super seal connector terminals. See pages 274-275 for super seal connectors.

8298

Part Number CRIMPING TOOL - ABS TERMINALS

8PE 863 807-001

Crimping tool designed for use with ABS connectors. See page 257 for ABS plugs, sockets and connectors.





2 Pole Plug and Socket

Supplied with 4 solid copper crimp contacts and 2 locking wedges. Bulk pack supplied with 2 pole connectors and contacts to suit.



Part Number	2 POLE PLUG AND SOCKET	
	4960	
	2 POLE PLUG	
	4960MF	PACK OF 10
	2 POLE SOCKET	
	4960FM	PACK OF 10
	2 POLE PLUG KIT	
	4960-P	

3 Pole Plug and Socket

Supplied with 6 solid copper crimp contacts and 2 locking wedges.



Part Number	4961

4 Pole Plug and Socket

Supplied with 8 solid copper crimp contacts and 2 locking wedges.



art Number	4962
ai t i vui i i bei	4/02

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6 Pole Plug and Socket

Supplied with 12 solid copper crimp contacts and 2 locking wedges.

Part Number	4963
	6 PIN PLUG KIT



8 Pole Plug and Socket

Supplied with 16 solid copper crimp contacts and 2 locking wedges.

Part Number	4964	
-------------	------	--



12 Pole Plug and Socket

Supplied with 24 solid copper crimp contacts and 2 locking wedges.

Part Number

4965



Crimp centred between the inspection hole and crimp barrel end.

Visual Inspection Checklist

- √ N0 damaged wire strands.
- √ N0 missing wire strands.
- ✓ ALL strands entered into contact barrel.

techfeedback@hella.co.nz

Super Seal Connectors

Super seal 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. Plug and socket kits come complete with terminals and seals.







P/N 4981-S

	1 POLE PLUG AND SOCKET		
Part Number	4981-P (Pack of 4)	PLUG	
	4981-S (Pack of 4)	SOCKET	



P/N 4982-P



P/N 4982-S

Part Number	2 POLE PLUG AND SOCKET		
	4982 (Kit)		PLUG AND SOCKET
	4982-P (Pack of 4)		PLUG
	4982-S (Pack of	4)	SOCKET
Spare Part	9.4982.05	Rubber sealing boot – cable support	



P/N 4983-P



P/N 4983-S

Part Number	3 POLE PLUG AND SOCKET		
	4983 (Kit)		PLUG AND SOCKET
	4983-P (Pack of 3)		PLUG
	4983-S (Pack	c of 3)	SOCKET
Spare Part	9.4983.05	Rubber sealing boot – cable support	







P/N 4984-S

Part Number	4 POLE PLUG AND SOCKET		
	4984 (Kit)	PLUG AND SOCKET	
	4984-P (Pack of 3)	PLUG	
	4984-S (Pack of 3)	SOCKET	



P/N 4985-P



P/N 4985-S

	5 POLE PLUG AND SOCKET				
Part Number	4985-P (Pack of 2)	PLUG			
	4985-S (Pack of 2)	SOCKET			



P/N 4986-P

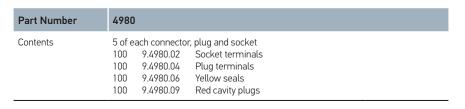


P/N 4986-S

Part Number	6 POLE PLUG AND SOCKET		
	4986-P (Pack of 2)	PLUG	
	4986-S (Pack of 2)	SOCKET	

Super Seal Connector Kit

Kit contains a variety of super seal connectors.





	FEMALE TERMINA	LS FOR PLUG - PACK OF 50
Part Number	9.4980.01	
	9.4980.02	
To Suit	. ,	0.35 - 0.50mm² cable 0.50 - 1.50mm² cable



	MALE TERMINALS	S FOR SOCKET - PACK OF 50
Part Number	9.4980.03	
	9.4980.04	
To Suit	P/N 9.4980.03 P/N 9.4980.04	0.35 - 0.50mm² cable 0.50 - 1.50mm² cable



	SEALS FOR PLUG/SOCKET - PACK OF 50				
Part Number	9.4980.05	GREEN SEAL			
	9.4980.06	YELLOW SEAL			
	9.4980.07	RED SEAL			
	9.4980.09		RED CAVITY PLUG (NO HOLE)		
To Suit	P/N 9.4980.05 P/N 9.4980.06 P/N 9.4980.07 P/N 9.4980.09	Cable insulation 1.2 - 1.6mm diameter Cable insulation 1.7 - 2.4mm diameter Cable insulation 2.5 - 3.3mm diameter Red cavity plug (no hole)			



	RUBBER SEALING	G BOOT - CABLE SUPPORT
Part Number	9.4982.05	
	9.4983.05	
To Suit	P/N 9.4982.05 P/N 9.4983.05	2 pin connector 3 pin connector



		SUPER SEAL TOOLS		
Part Number	9.4980.20	CONTACT EXTRACTION TOOL		
	9.4980.21	SECONDARY LOCK TOOL		



Extraction tools for the popular super seal range of connectors, to assist in disassembly if required.

Dout Number	CRIMPING TOOL - SUPER SEAL TERMINALS
Part Number	8298

Crimping tool designed for use with super seal connector terminals.



PUSH-ON FEM	MALE TERMINALS			
Part Number	Туре	Quantity Per Pack	Size	Cable
8200	BLISTER PACK	20	/ 20000	2.5 to 3mm cable
8500	BULK PACK	100	6.3mm	0.75 to 1.13mm ² cable
8201	BLISTER PACK	20	/ 20000	4mm cable.
8501	BULK PACK	100	6.3mm	1.84mm² cable
8202	BLISTER PACK	15	4.2mm	
8502	BULK PACK	100	6.3mm	_ 5 to 6mm cable
8203	BLISTER PACK	12	9.5mm	2.9 to 4.59mm ² cable
8503	BULK PACK	100	7.311111	
FULLY INSUL	ATED FEMALE TERMIN	ALS		
8204	BLISTER PACK	12	/ 2	2.5 to 3mm cable
8504	BULK PACK	100	6.3mm	0.75 to 1.13mm² cable
8205	BLISTER PACK	12		4mm cable.
8505	BULK PACK	100	6.3mm	1.84mm² cable
PUSH-ON 2-W	AY MALE AND FEMALI	E TERMINALS		
8210	BLISTER PACK	15		2.5 to 3mm cable
8510	BULK PACK	100	6.3mm	0.75 to 1.13mm ² cable
8211	BLISTER PACK	12		4mm cable.
8511	BULK PACK	100	6.3mm	1.84mm ² cable
8212	BLISTER PACK	15		
8512	BULK PACK	100	6.3mm	
BLADE MALE	TERMINALS			
8213	BLISTER PACK	15		2.5 to 3mm cable
8513	BULK PACK	100	6.3mm	0.75 to 1.13mm ² cable
8214	BLISTER PACK	12		4mm cable.
8514	BULK PACK	100	6.3mm	1.84mm² cable
8215	BLISTER PACK	10		5 to 6mm cable
8515	BULK PACK	100	6.3mm	2.9 to 4.59mm ² cable
BULLET SING	LE MALE CONNECTORS	5		
8220	BLISTER PACK	12		2.5 to 3mm cable
8520	BULK PACK	100		0.75 to 1.13mm ² cable
8221	BLISTER PACK	14		4mm cable.
8521	BULK PACK	100		1.84mm ² cable
BULLET SING	LE FEMALE CONNECTO)RS		
8222	BLISTER PACK	12		2.5 to 3mm cable
8522	BULK PACK	100		0.75 to 1.13mm ² cable
	BLISTER PACK	14		4mm cable.
8223				

Part Number	Туре	Quantity Per Pack	Size	Cable
224	BLISTER PACK	13		Suited for brass
524	BULK PACK	100		bullet terminals.
230	BLISTER PACK	15		2.5 to 3mm cable
3530	BULK PACK	100		0.75 to 1.13mm² cable
231	BLISTER PACK	15		4mm cable.
531	BULK PACK	100		1.84mm² cable
3232	BLISTER PACK	10		5 to 6mm cable
3532	BULK PACK	100		2.9 to 4.59mm ² cable
UICK CONNECT	CABLE CONNECTOR	RS		
235	BLISTER PACK	15		
3535	BULK PACK	50		
Vith the use of plie	rs, connects splices an	d insulates 0.75 t	o 1.13mm² (2.5 t	o 3mm) cable.
YE TERMINALS				
240	BLISTER PACK	25		
540	BULK PACK	100	4.3mm	
3241	BLISTER PACK	20	_	- 2.5 to 3mm cable
3541	BULK PACK	100	5mm	0.75 to 1.13mm² cable
8242	BLISTER PACK	15	4.0	_
3542	BULK PACK	100	6.3mm	
3243	BLISTER PACK	20	-	
3543	BULK PACK	100	5mm	
3244	BLISTER PACK	20	/ 2	- 4mm cable.
3544	BULK PACK	100	6.3mm	1.84mm² cable
3245	BLISTER PACK	15	0 /	
3545	BULK PACK	100	8.4mm	
8246	BLISTER PACK	12	(2====	
8546	BULK PACK	100	6.3mm	_
8247	BLISTER PACK	12	9 /·mm	_
8547	BULK PACK	100	8.4mm	_ 5 to 6mm cable
3248	BLISTER PACK	10	0.5~~	2.9 to 4.59mm² cable
8548	BULK PACK	100	9.5mm	
3249	BLISTER PACK	10	- Erroro	_
3549	BULK PACK	100	5mm	

BULK PACK

8573

100

6.3mm

1.84mm² cable

Insulated Terminal Assortment

Pack of 16 and 31 popular HELLA connectors/terminals.



Dout Number	8280	PACK OF 16
Part Number	8281	PACK OF 31

Garage/Auto Electrical Assortment Kit - 188 Piece

Assortment containing 12 types of HELLA connectors/terminals specifically designed to meet the requirements of the automotive industry.



Part Number	8282					
Contents	A quantity of 12 complete packs. Part Number Description Quantity					
	8200	Push-on female terminal	20			
	8201	Push-on female terminal	20			
	8202 Push-on female terminal					
	8203	Push-on female terminal	12			
	8210	Push-on 2-way male and female terminal	15			
	8211	Push-on 2-way male and female terminal	12			
	8230 Cable connector		15			
	8231	Cable connector	15			
	8232	2 Cable connector				
	8241 Eye terminal		20			
	8244	Eye terminal	20			
	8247	Eye terminal	12			

Insulated Terminal and Connector Kit - 800 Piece

Assortment containing 16 types of HELLA connectors/terminals specifically designed to meet the requirements of the automotive industry. Kit includes crimp tool P/N 8272.



Part Number	8284			
Contents	16 types of HELLA connectors/terminals.			
	Part Number	Description	Quantity	
	8200	Push-on female terminal	50	
	8201	Push-on female terminal	50	
	8204	Fully Insulated female terminal	50	
	8205	Fully Insulated female terminal	50	
	8213	Blade male terminal	50	
	8214	Blade male terminal	50	
	8220	Bullet single male connector	50	
	8221	Bullet single male connector	50	
	8222	Bullet single female connector	50	
	8223	Bullet single female connector	50	
	8230	Cable connector	50	
	8231	Cable connector	50	
	8235	Quick connect cable connector	50	
	8241	Eye terminal	50	
	8244	Eye terminal	50	
	8247	Eye terminal	50	

Crimping tool – Insulated terminals

8272

Part Number	8234S Clear		PACK OF 4
	8234SY Yellow		PACK OF 4
Conductors	2 in - 2 out.		
Cable	8234S 8234SY	0.82mm ² 0.5mm ²	
Max. Insulation Size	7.4mmØ		_
Max. Current	8234S 8234SY	5A 3.5A	
Protection		gainst dust and water jets) gainst dust and temporary water immersion)	







1. Buttons are raised (as shipped).

2. Insert wire and press buttons down to connect.

3. Wiring complete.

CoolSplice Sealed Connector

This connector can easily make a permanent wire-to-wire cable termination. Designed for a single use, it allows for positive and negative conductors in the same connector (2 in and 2 out, and insulated from each other).

Both sides can be terminated separately and independently from each other, making the connector suitable on a pig-tail. No special tools are required, a standard pair of pliers will do.

The CoolSplice connector is UL and KEMA approved. It is recommended that the connector is housed inside an enclosure if used outdoors.



Heat Shrink Insulated Crimp Terminals - Pack of 10

Fully insulated cable terminals with shrink-on nylon cap either with hot air gun or other heat source. Shrinking temperature 135°C.

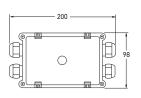
Part Number	Type	Colour	Cable Size	Description
8204S	BLADE	RED	0.5 - 1mm²	To suit blade terminals
8205S	RECEPTACLES	BLUE	1.5 - 2.5mm²	6.3 x 0.8mm. Fully insulated.
8213S	BLADE	RED	0.5 - 1mm²	Size of blade terminal
8214S	TERMINALS	BLUE	1.5 - 2.5mm²	6.3 x 0.8mm.
8240S	RING	RED	0.5 - 1mm²	To ovik M/ mino
8236S	CONNECTORS	BLUE	1.5 - 2.5mm²	· To suit M4 pins.
8241S	RING CONNECTORS	RED	0.5 - 1mm²	
8243S		BLUE	1.5 - 2.5mm²	To suit M5 pins.
8249S		YELLOW	4 - 6mm²	
8244S	RING	BLUE	1.5 - 2.5mm²	To ovik M/ mino
8246S	CONNECTORS	YELLOW	4 - 6mm²	To suit M6 pins.
8245S	RING	BLUE	1.5 - 2.5mm²	· To suit M8 pins.
8247S	CONNECTORS	YELLOW	4 - 6mm²	то ѕин мо ріпѕ.
8230S		RED	0.5 - 1mm²	
8231S	BUTT CONNECTORS	BLUE	1.5 - 2.5mm²	
8232S		YELLOW	4 - 6mm²	



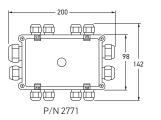
Cable Junction Box

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.





P/N 2770







Part Number	2770		4 OUTLETS
	2771		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)		

14 separate connection groups.



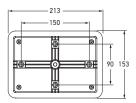
Plug Cartridge

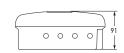
Connecting cartridge

Junction Box - Heavy Duty

Heavy duty nylon junction box. Box can be opened without tools via a single stainless steel bolt. Large sealing gasket withstands high pressure water blasting. Internal mounting plate for fitment of connector blocks and/or relays by self-tapping screws. Large size allows for multiple connections.







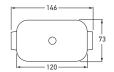
Part Number 2755

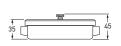


Cable Junction Box

8 Screw connections.







Part Number	2757
Cable	Suitable for medium cable up to 6mm² cross-sectional area.

Cable Junction Box

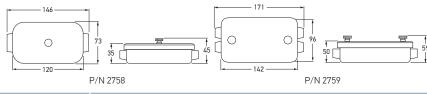
280

8 pole, 8 double flat plug connection.





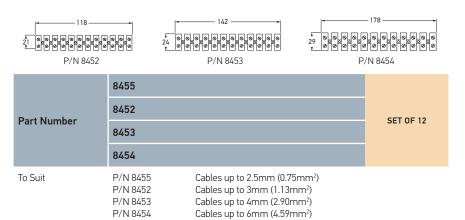
P/N 2758

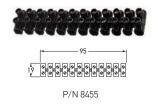


Part Number	2758	
	2759	
To Suit	P/N 2758 P/N 2759	Suitable for medium cable up to 6mm ² cross-sectional area. Suitable for heavy cable up to 10mm ² cross-sectional area.

Cable Connectors

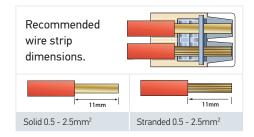
Set of 12 brass terminals. Flexible plastic.





300000000000	300000000000000000000000000000000000000	***************************************
P/N 8452	P/N 8453	P/N 8454

Part Number	8250-2 (2 Pole)	PACK OF 8
	8250-4 (4 Pole)	PACK OF 6
	8250-6 (6 Pole)	PACK OF 4
Cable	Suitable for cable 0.5mm² - 2.5mm² cross-sectional area.	
Max. Current	24A @ 24V	





Push-in Wire Connectors

Push-in wire connectors used for fast, easy and reliable connection and distribution of cables and conductors. The cables are commonly connected together inside the connector.

Available in 2, 4 and 6 pole versions and colour coded for easy identification, these connectors are suitable for a wide variety of applications. They are made from non-corrosive materials and are recommended for use in a clean and dry environment to prevent corrosion.



Part Number	4991	1 POLE
	4992	2 POLE
	4993	3 POLE
	4994	4 POLE
	4995	6 POLE
	4996	8 POLE
Max. Load	10A per terminal.	
Max. Cable Size	2.0mm ²	



Connector Kits

White connector kits. Includes brass terminals.



Self Bonding Rubber Tape

- Black

Self bonding adhesive tape. Supple, waterproof, permanently resilient and high stretch. This self bonding adhesive tape is used for assembling cable sleeves and repairing damaged cable and leads and is also suitable for sealing hoses. For optimum insulation and self bonding, a minimum 50% overlap and tensile stretch of at least 50% is recommended.



Part Number	8300	19MM X 5M
Tape Thickness	1.0 +/- 0.2mm	
Elongation at Break	55%	
Temperature Range	-40°C to 105°C	

Insulation Tape - Black

Black insulation tape. Made from lead free PVC. Suitable for fine wire, cables and applications requiring non-corrosive tape.



Part Number	8312	18MM X 20M
Tape Thickness	0.18mm	
Elongation at Break	215%	

Duct Tape - Black

Premium quality plastic coated rayon fabric backing, with a high tack aggressive rubber based adhesive on one side.



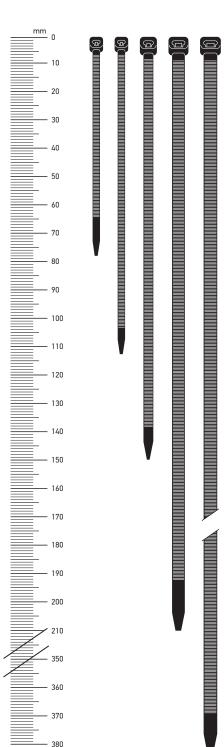
Part Number	8320	48MM X 30M
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Nylon Cable Ties

100% 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	78mm	2.5mm		
8342	103mm	2.5mm		
8343	143mm	3.2mm		
8344	191mm	4.8mm		
8345	368mm	4.8mm		
8346	378mm	7.6mm		

BLACK UV RESISTANT CABLE TIES				
Quantity 10 Per Pack	Quantity 100 Per Pack	Quantity 1000 Per Pack	Length	Width
8331UV	8341UV		80mm	2.5mm
	8342UV	8342UV-BULK	103mm	2.5mm
8333UV	8343UV	8343UV-BULK	147mm	3.2mm
8334UV	8344UV	8344UV-BULK	208mm	4.6mm
8335UV	8345UV	8345UV-BULK	390mm	4.8mm
8336UV	8346UV	8346UV-BULK	380mm	7.6mm



Standard Blade Fuses (ATS)

- Pack of 10







8771 8772 8773	TAN	5A	
	8772	BROWN	7.5A
	8773	RED	10A
Part Number	8774	BLUE	15A
	8775	YELLOW	20A
	8776	WHITE	25A
	8777	GREEN	30A

Motorist Fuse Assortment (ATS)

P/N 8776

P/N 8777

- Pack of 10

P/N 8775

10 popular blade fuses – ideal for the glove box.



Part Number	8779
Contents	1 x 7.5A 2 x 10A 2 x 15A 2 x 20A 2 x 25A 1 x 30A

Mini Blade Fuses (ATN) - Pack of 10

10 popular blade fuses – ideal for the glove box.





	Est.	
5 /1 / 0555 / 11 / 11	D /N OFF /N 41N II	





Part Number	8771MINI	TAN	5A
	8772MINI	BROWN	7.5A
	8773MINI	RED	10A
	8774MINI	BLUE	15A
	8775MINI	YELLOW	20A
	8776MINI	WHITE	25A
	8777MINI	GREEN	30A

Low Profile Blade Fuses (ATT)

- Pack of 10



	8771LP	TAN	5A
	8772LP	BROWN	7.5A
	8773LP	RED	10A
Part Number	8774LP	BLUE	15A
	8775LP	YELLOW	20A
	8776LP	WHITE	25A
	8777LP	GREEN	30A





	8790	YELLOW	20A
	8791	GREEN	30A
	8792	ORANGE	40A
Part Number	8793	RED	50A
	8794	BLUE	60A
	8796	BROWN	70A
	8795	WHITE	80A

Maxi Blade Fuses (ATM)

- Single Pack







CCESSORIE

Glass Fuses (3AG) - Pack of 5

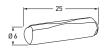




	8755	3 AMP
	8756	5 AMP
	8757	7.5 AMP
Part Number	8754	10 AMP
Part Number	8758	15 AMP
	8759	20 AMP
	8760	25 AMP
	8761	30 AMP

Ceramic Fuses - Pack of 5





Part Number	8750	8 AMP
	8753	16 AMP
	8751	25 AMP



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	PURPLE	3A
	8737	GREEN	6A
Don't Novel or	8738	RED	10A
Part Number	8739	BLUE	15A
	8740	YELLOW	20A
	8741	WHITE	25A
Voltage	Max 28V (Min 10V)		

P/N 8737	P/N 8738	P/N 8739	P/N 8740	P/N 8741

Auxiliary Blade Fuse Holder

Add on fuse holder. Fuse holder allows you to piggy back off the original fuse with an additional holder and separate fused circuit. Comes complete with 4 fuses (3A, 5A, 7.5A and 10A).

Part Number	8701	MINI
	8703	STANDARD/ATS
To Suit	Mobile phones, stereos, amplifiers, navigation systems and fri	idges.



Pre-wired Blade Fuse Holders

	8713	MINI
Part Number	8714	STANDARD
	8715	MAXI







P/N 8714

P/N 8715

Pre-wired Glass Fuse Holders

Part Number	8765	MAX. 30A
	8766	MAX. 10A



Glass Fuse Holder - Panel Mount

Part Number	8768	SOLDER TERMINALS
	8769	PUSH-ON TERMINALS
Mounting	15mm diameter opening.	





P/N 8769

Single Blade Fuse Holder

Several holders may be joined together or mated with P/N 4973 (relay holder). Comes complete with 2 terminals.



Part Number	8704
Cable	Suitable for cable up to 2.5mm² cross sectional area.

Single Maxi Blade Fuse Holder

Splash-proof fuse holder with plastic cover. For loads up to 60A. Complete with 2 sets of terminals, set one for 2.5 - 6mm² and set two for 5 - 10mm².

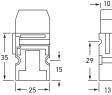


Part Number	8707
Cable	Suitable for cables up to 2.5mm² - 10mm² cross sectional area.

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.





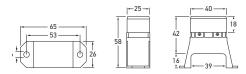
Part Number	8718
Cable	Suitable for cable up to 2.90mm ² cross sectional area.

Single In-line Blade Fuse Holder

20 amps maximum. Complete with 15A blade fuse. Quick connect type, manufactured by 3M U.S.A.



Part Number	8719
Cable	Suitable for cable up to 1.84mm² cross sectional area.

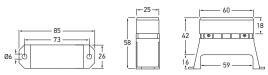


Part Number	8720	
	8720-S	SIDE CONNECTORS
Number of Fuses	4	
Fuse Type	2 x 10A 2 x 15A	

Blade Fuse Box - 4 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.



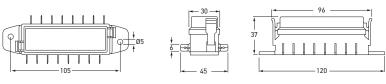


Part Number	8721	
	8721-S	SIDE CONNECTORS
Number of Fuses	6	
Fuse Type	3 x 10A 3 x 15A	

Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.





Part Number	8722	
	8722-S	SIDE CONNECTORS
Number of Fuses	8	
Fuse Type	4 x 10A 4 x 15A	

Blade Fuse Box - 8 Fuses

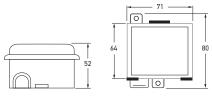
Black plastic housing with transparent snap-fit lid. Flat plug connections.



Blade Fuse Box - 12 Fuses

Black plastic housing with transparent snap fit lid incorporating sealing gasket. Provision for storing 4 spare fuses. Special sealing gland for cable entry.



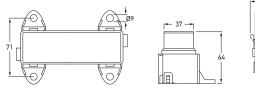


Part Number	8723
Number of Fuses	12
Fuse Type	4 x 10A 4 x 15A 2 x 20A 2 x 25A

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).





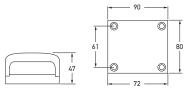
Part Number	8724
Number of Fuses	16
Fuse Type	6 x 10A 6 x 15A 2 x 20A 2 X 25A

135 123

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.





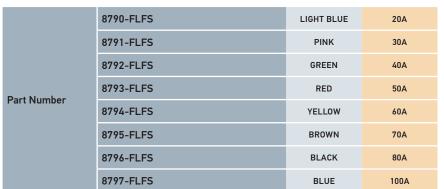
Part Number	8725
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

ACCESSORIES

Fusible Link - Female



Female plug-in fuse link.















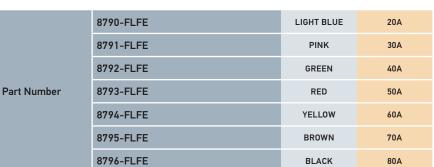


P/N 8791-FLFS P/N 8792-FLFS P/N 8793-FLFS P/N 8794-FLFS P/N 8795-FLFS P/N 8796-FLFS

Mini Fusible Link - Female



Female mini plug-in fuse link.











techfeedback@hella.co.nz

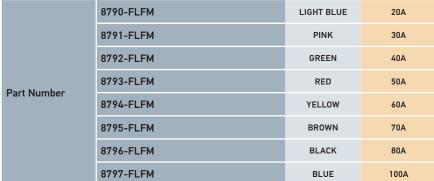
Mini Fusible Link - Female

Mini female plug-in fuse link.





P/N 8797-FLFM















P/N 8791-FLFM P/N 8792-FLFM P/N 8793-FLFM P/N 8794-FLFM P/N 8795-FLFM P/N 8796-FLFM

Fusible Link with Lock Tab - Female

Female plug-in fuse link with lock.



P/N 8792-FLMKP



Part Number	8792-FLMKP	RED	45A
	8794-FLMKP	BLACK	65A
	8796-FLMKP	GREY	75A





P/N 8794-FLMKP P/N 8796-FLMKP

Mini Fusible Link with Lock Tab - Female

Mini female plug-in fuse link with lock.



P/N 8790-FLMNP



Part Number	8790-FLMNP	BROWN	25A
Part Number	8791-FLMNP	GREEN	30A



P/N 8791-FLMNP





Fusible Link - Male

Male bolt-in fuse link.



Fusible Link, Male - L-Type Long

P/N 8797-FLB

Fusible Link, Male - L-Type Short

P/N 8797-FLBS

Male L-type fuse link with short leg.

P/N 8790-FLBS

Male L-type fuse link with long leg.

P/N 8790-FLB

	8790-FLM	LIGHT BLUE	20A
	8791-FLM	PINK	30A
	8792-FLM	GREEN	40A
Part Number	8793-FLM	RED	50A
	8794-FLM	YELLOW	60A
	8795-FLM	BROWN	70A
	8796-FLM	BLACK	80A
	8797-FLM	BLUE	100A
	8798-FLM	WHITE	120A















P/N 8791-FLM P/N 8792-FLM P/N 8793-FLM P/N 8794-FLM P/N 8795-FLM P/N 8796-FLM P/N 8798-FLM

	8790-FLB	LIGHT BLUE	20A
	8791-FLB	PINK	30A
	8792-FLB	GREEN	40A
Part Number	8793-FLB	RED	50A
	8794-FLB	YELLOW	60A
	8795-FLB	BROWN	70A
	8796-FLB	BLACK	80A
	8797-FLB	BLUE	100A
	8798-FLB	WHITE	120A















P/N 8791-FLB P/N 8792-FLB P/N 8793-FLB P/N 8794-FLB P/N 8795-FLB P/N 8796-FLB P/N 8798-FLB

	8790-FLBS	LIGHT BLUE	20A
	8791-FLBS	PINK	30A
	8792-FLBS	GREEN	40A
Part Number	8793-FLBS	RED	50A
	8794-FLBS	YELLOW	60A
	8795-FLBS	BROWN	70A
	8796-FLBS	BLACK	80A
	8797-FLBS	BLUE	100A
	8798-FLBS	WHITE	120A















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Contents

HELLA Workshop

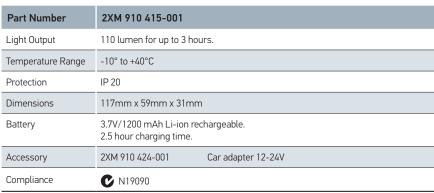
LED Inspection Lamp - Miniform	296
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HELLA LED Inspection Lamps have been designed with the workshop in mind. With high power efficient LEDs providing evenly spread natural light; a range of styles designed for a variety of situations; and construction to last − HELLA Inspection Lamps will become your most valued workplace tool. → High power LEDs. → Easy to use. → Impact and shock resistant. → Natural light − colour similar to daylight. → Low current consumption, high efficacy. → Strong, sturdy and resistant to water, oil and chemicals.

LED Inspection Lamp - Miniform

Multifunctional pocket sized rechargeable LED inspection lamp. Features a strong magnetic base, retractable swivel hook and a flexible 180° head for powerful uniform lighting at any angle. Complete with 240V charger.











180° flexible head



P/N 2XM 910 424-001

swivel hook





Part Number	2XM 910 414-001	
Light Output	Main: 220 lumen for up to 4 hours Spot (top): 40 lumen for up to 8 hours	
Temperature Range	-10° to +40°C	
Protection	IP 68 (Protection against dust and temporary water submersion)	
Dimensions	055mm x 280mm	
Battery	3.7V/2000 mAh Li-ion rechargeable. 3-4 hour charging time.	
Compliance	♥ N19090	

LED IP 68 Inspection Lamp - Sun

Induction rechargeable high power LED inspection lamp and flashlight. 6 x 0.5W high power LEDs project a soft white, natural and intense light similar to daylight. Sun illuminates an area four times wider than traditional LED inspection lights by spreading light in an 80° arc. Easy charging is achieved with an induction charge base. Also features an adjustable and retractable suspension hook and LED charge indicator. Complete with 240V charger.





Part Number	2XM 910 412-001	
Light Output	200 lumen for up to 3 hours.	
Temperature Range	-10° to +40°C	
Protection	IP 65 (Protection against dust and water jets)	
Dimensions	63mm x 190mm x 38mm	
Battery	3.7V/2200 mAh Li-ion rechargeable. 4 hour charging time.	
Accessory	2XM 910 424-001 Car adapter 12-24V	
Compliance	€ N19090	



P/N 2XM 910 424-001

LED Inspection Lamp - Uniform

Rechargeable LED inspection lamp featuring rubber housing, intelligent battery indicator, swivel hook and magnetic-based charging unit. Delivers a powerful and uniform light output. Complete with 240V charger.

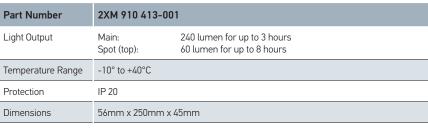


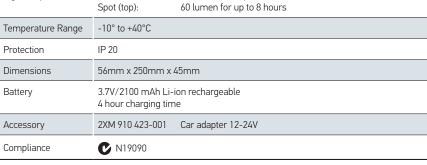


Shown in charger

LED Magnetic Inspection Lamp - Mag 3

High power rechargeable LED inspection lamp and torch. Features 3 strong magnets, 2 swivel hooks, and a 180° flexible head for powerful lighting at any angle. Complete with 240V charger.







P/N 2XM 910 423-001





2 swivel hooks





Part Number	2XM 910 427-001	
Light Output	Main: Spot (top):	180 lumen for up to 4 hours 80 lumen for up to 6 hours
Temperature Range	-10° to +40°C	
Protection	IP 54 (Protection ag	ainst dust and water splash)
Dimensions	025mm x 475mm	
Battery	7.4V/1400 mAh Li-i 4 hour charging tim	3
Accessories	2XM 910 418-001 2XM 910 419-001 2XM 910 420-001 2XM 910 421-001	Flexible arm suction clip Flexible arm magnet clip Clip holder Magnet holder
Compliance	€ N19090	



LED Inspection Lamp - Line Light R

Rechargeable inspection lamp with top spot light. Features strong protective rubber grip, clip holder with hook and magnet, slim 25mm diameter and a flexible suspension holder with both hook and magnet for precise positioning. Additional suspension solutions are available as accessories. 75° beam angle can be rotated in the holder to avoid blinding. Complete with 240V charger.



Part Number	2XM 910 428-001	
Light Output	600 lumen.	
Power Consumption	5W	
Temperature Range	-10° to +40°C	
Voltage	240V AC/50Hz	
Cable Length	Pre-wired with 5m of cable.	
Protection	IP 54 (Protection against dust and water splash)	
Dimensions	025mm x 1025mm	
Accessories	2XM 910 418-001 Flexible arm suction clip 2XM 910 419-001 Flexible arm magnet clip 2XM 910 420-001 Clip holder 2XM 910 421-001 Magnet holder	
Compliance	№ N19090	



 $P/N\ 2XM\ 910\ 418-001 \quad P/N\ 2XM\ 910\ 419-001 \quad P/N\ 2XM\ 910\ 420-001 \quad P/N\ 2XM\ 910\ 421-001$

LED Bonnet Lamp - Line Light

Powerful bonnet lamp providing bright illumination of the entire engine bay.
Line light bonnet lamp is supplied with an adjustable 1.2–1.7m telescopic holder and a soft cover to protect vehicle paintwork.



LED Pen Light - Flash Pen

Powerful 1W LED pencil flashlight with soft slide focus function, providing a 15° to 70° beam angle range. Solid metal construction.





Part Number	2XM 910 416-001
Light Output	80 lumen for up to 8 hours.
Temperature Range	-10° to +40°C
Dimensions	016mm x 142mm
Protection	IP 54 (Protection against dust and water splash)
2	1

2 x AAA batteries included.



LED Pen Light - Mag Pen

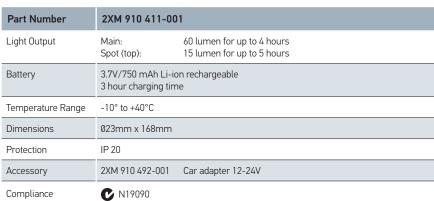
Rechargeable pencil LED inspection lamp with spot flashlight. Features pocket clip, rubber housing and magnetic mount, this is the ideal inspection tool for difficult access areas. Complete with 240V charger.





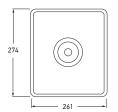


P/N 2XM 910 492-001











LED Work Lamp - Nova 30

Highly shockproof and innovative, high output 30W LED work lamp for the professional workshop. Features protective rubber frame and flexible stand that allows for angle adjustment and suspension.

Part Number	2XM 910 426-001	
Light Output	3300 lumen.	
Power Consumption	32W	
Temperature Range	-10° to +40°C	
Voltage	240V AC/50Hz	
Cable Length	Pre-wired with 5m of cable.	
Protection	IP 67 (Protection against dust and water splash)	
Compliance	C N19090	





Side view



302

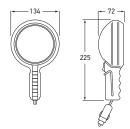
Hand Held Spot Lamp - Blue Body

Blue hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and on-off switch.





P/N 9.1520.06



Part Number	LONG RANGE HAND HELD SPOT LAMP		
Part Number	1520		12 VOLT
Voltage	12V sealed bea	m included.	
Power Consumption	100W		
Spare Parts	1089 9.1520.06 9.1520.07	Sealed beam Switch - on-off Spiral cable	

Part Number	HAND HELD SPOT LAMP		
Part Number	1521		12 VOLT
Voltage	12V sealed beam included.		
Power Consumption	30W		
Spare Parts	1087 9.1520.06 9.1520.07	Sealed beam Switch - on-off Spiral cable	

Part Number	HAND HELD SPOT LAMP		
Part Number	1525		24 VOLT
Voltage	24V sealed beam included.		
Power Consumption	50W		
Spare Parts	1092 9.1520.06 9.1520.07	Sealed beam Switch - on-off Spiral cable	

Hand Held Spot Lamp - Black Body

Black hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and momentary pressure contact on-off switch.





Part Number	LONG RANGE HAND HELD SPOT LAMP			
Part Number	1524		12 VOLT	
Voltage	12V sealed beam included.			
Power Consumption	100W			
Spare Parts	1089 9.1524.06 9.1520.07	Sealed beam Switch - momentary Spiral cable		

Part Number	HAND HELD SPOT LAMP			
Part Number	1524S		24 VOLT	
Voltage	24V Sealed bea	m included.		
Power Consumption	50W			
Spare Parts	1092 9.1524.06 9.1520.07	Sealed beam Switch - momentary Spiral cable		







Part Number	1H3 998 502-00	1H3 998 502-001	
Protection	IP X6K (Protection a	against powerful water jets at increased pres	ssure)
Bulbs to suit	12V YC1255 YC12100	24V YC2470 (2 bulbs)	
Spare Parts	9.2864.01 9.2864.08	Insert Mounting bracket	

	55W					
2V	100W					
	Both					-
		0	100	300	500	700 800
4V	70W					-
. - + ∨	2x70W					
		0	100	300	500	700 800

Hand Held Spot Lamp - 12 Volt

Waterproof close range search lamp with twin Free-Form (FF) reflectors. 2 bulbs (55W and 100W) with separate switches provide optimum illumination of the immediate vicinity. Precise illumination at a distance, or both. Spiral cable and plug will extend to 3.5m.





P/N 9.2864.08

Part Number 7037

Measuring Tolerance Less than +/-1%.

 ${\color{blue} \textbf{Does not measure Glycol concentration. Measures freezing point depression of Glycol-based coolant.} \\$

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.











1. Digital indication of illuminance.

2. Laser alignment (DLX version).

3. Spirit level for accurate testing on uneven floors (DLX version).

HELLA BEAMSETTERS

Regulatory authorities use the HELLA Beamsetter range as the industry benchmark for design and accuracy. Fully supported within New Zealand by HELLA with calibration service, spare parts and repair service. The Beamsetter range is well known for its ease of use, durability and quality.

The HELLA Beamsetter is a precision workshop instrument designed to accurately check vehicle headlamps. It was developed especially for use in professional workshops and vehicle testing stations.

The HELLA Beamsetter provides high accuracy in lighting checks and is also able to test the latest technology headlamps. The Beamsetter box, the heart of the unit, is constructed of impact-resistant, corrosion proof plastic which even withstands the aggressive fluids used in workshops. Its functional design allows quick, precise and simple headlamp adjustment.

HELLA Beamsetter

Standard Beamsetter with digital voltage and lux readings.

Part Number	SEG 700L
Also Available	HELLA's Beamsetter calibration service designed to calibrate your Beamsetter in line with the manufacturer's standard and to comply with industry ISO Certification.

HELLA Beamsetter - Deluxe

Deluxe Beamsetter with digital voltage and lux readings.

Part Number	SEG 700DLX	DELUXE
Features	Digital indication of illuminance. Laser alignment. Height adjustment lever complete with spiri uneven floors.	t level for
Also Available	HELLA's Beamsetter calibration service design your Beamsetter in line with the manufacturer to comply with industry ISO Certification.	

HELLA BEAMSET	TTER SPARE PARTS	
Spare Parts	9EV 861 038-001 9ST 861 074-001 9XS 862 004-001 9XS 861 736-001	Window Locking knob Wheel set Rail kit 1.5 metres (uses standard wheels)

BEAMSETTER CALIBRATION ENQUIRIES PLEASE CONTACT:

HELLA-New Zealand Limited 81-83 Ben Lomond Crescent, Pakuranga, PO Box 51-427, Auckland 2140, New Zealand

Tel: +64 (0) 9 577 0366 Fax: +64 (0) 9 576 8202 nzsales@hella.co.nz

Sales/Customer Service:

Wide band sight aligner.Combination volt and light output meter.

Sturdy base.

Features include:

- → Large viewing screen.
- → Easy height adjustment.
- → Spare parts availability.





Automotive Bulbs

HELLA's automotive bulbs are renowned for their uncompromising adherence to the highest quality and safety standards.





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SUPERIOR ILLUMINATION

HELLA offers the most comprehensive range of automotive bulbs to suit almost any function, from passenger vehicle to heavy duty applications. The range includes incandescent, halogen and HID bulbs.



At HELLA, we have been designing, developing and manufacturing automotive lighting solutions since the motorcar was first produced.

Today HELLA automotive bulbs are renowned for their uncompromising adherence to the highest quality and safety standards. There's a HELLA bulb to suit almost every requirement.

Incandescent Bulbs

Incandescent bulbs produce light when an electric current passes through a thin filament, heating it and causing it to emit light. Incandescent bulbs become progressively dimmer over the course of their service life; heating the filament results in its erosion, vapour from this erosion condenses on the cooler glass and reduces transmission through the glass casing.

Halogen Bulbs

Halogen bulbs contain a gas mixture which consists of halogen compounds (usually compounds of iodine or bromine). Much like the incandescent bulb, light is produced by passing a current through a tungsten filament, heating it which causes it to emit light. When particles burn off the filament, they are returned by a chemical process assisted by the halogen in the bulb. This results in a relatively consistent brightness over the course of the bulb's service life. Halogen bulbs are approximately 50% more efficient than an incandescent bulb.

Xenon Gas Discharge Bulbs

Xenon bulbs produce light when an electric arc is ignited between two electrodes and subsequently passes through Xenon gas. This technology is significantly more energy efficient than the incandescent or the halogen bulb. The colour temperature emitted is comparable to daylight. As the human eye has evolved to see in daylight, Xenon lighting causes less eye strain than other bulb types, making it a more convenient and safer night lighting option. Xenon based forward lighting further assists safe driving at night by increasing the reflections of road signs and markings.

Advantages of Xenon Lighting

- → Over twice the light output compared to standard halogen bulbs.
- → 77% less power consumption than standard halogen bulbs.
- → Light colour very similar to daylight reduces strain on the eye.
- → Steady brightness levels even if power supply varies.
- Impact and vibration resistant light arc ensures a bulb service life five times longer than standard bulbs.

Maximising Bulb Life

To maximise the operational life of an automotive bulb there are some important points to consider.

Rule of Thumb:

- → 5% overvoltage halves the bulb life.
- → Headlamp bulbs are rated at 13.2 volts. Signal and marker bulbs are rated at 13.5 volts.
- → The light output of a tungsten filament light source is dependent on voltage.
- → Low voltage causes low output and lower operational life of halogen bulbs as regeneration does not occur.
- Overvoltage causes excessive tungsten erosion and significantly shortens bulb life.



Truckstar®

Truckstar® bulbs are a new generation of highperformance halogen bulbs specifically designed to cope with the heavy duty demands of 24 volt heavy commercial transport applications.

Utilising innovative single-coil filaments,
Truckstar® halogen bulbs offer significantly
increased service life of up to 100% when
compared to standard halogen bulbs. They
also feature superior vibration resistance
during extended periods of operation, leading
to reduced vehicle servicing costs and downtime.

In addition to extended service life and improved durability, Truckstar® halogen bulbs provide up to 100% increased illumination of the road ahead when compared to a standard halogen bulb. This results in improved vision and clearer visibility of objects and traffic situations in the distance ahead, effectively reducing eyestrain and driver fatigue, adding valuable seconds to driver reaction times for improved night driving safety.

Safe for Modern Headlamps

All halogen bulb filaments produce UV radiation. If the glass casing of the bulb does not filter the UV radiation it will be harmful to the polycarbonate lenses used on most of today's vehicles.

Excessive UV radiation from the halogen or HID bulb will result in discolouration and substantially diminished light transmission of the headlamp lens. All HELLA halogen and HID automotive bulbs are UV-reduced and are safe for use in modern headlamps with polycarbonate lenses.

Replacement Bulbs

The New Zealand lighting rules state that all certified legal lamps (headlamps or tail lamps) must be fitted with an approved light source to remain legal, if the light source is replaced.

Most HELLA bulbs will be marked with an 'E mark' to show compliance. Some bulbs, to suit older vehicles or imports not originally destined for our market, may have different standards such as JIS (Japanese Industrial Standard). HELLA shows compliant bulbs under the category column in the bulb section

LED Replacement Bulbs

LED replacement bulbs are generally illegal for use in marker, signal and headlights as they do not come with a compliance marking.

To avoid failing a Warrant/Certificate of Fitness inspection, all lighting equipment must comply with the law and meet approved standards.

LIGHT OUTPUT	
Operating Voltage %	Light Output %
85	53
90	67
95	83
100	100

Based on a mean operating voltage of 100% = 13.5V or 28V.

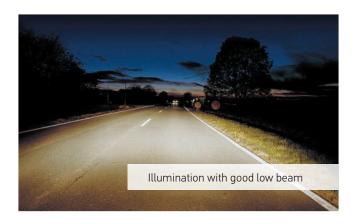
As the operating voltage drops, so does the light output. If voltage drops from 13.5V to 12.8V (-5%) then light output drops to 83%.

Hours of testing ensures a quality product HELLA is renowned for.



XENON GAS DISCHARGE LAMPS

Xenon based front lighting systems are among the best lighting systems available in terms of both quality and quantity.





The Xenon gas discharge, or high intensity discharge (HID) bulb illuminates via a light arc that is ignited between two electrodes. This technology requires a complex electronic ballast.

To optimise and maintain a safe lighting system, additional system features are often required e.g. headlamp cleaning systems, automatic headlight range adjustment and levelling systems for ECE type approved systems.

Advantages of Xenon Light Compared to Halogen Bulbs:

- → Over twice the luminous flux (light quantity/light power).
- → Superior light performance (photometric efficiency).
- → Significantly lower power consumption of only 35W (plus 7W for ballast).
- → Lower thermal load on the system.
- → Considerably longer service life.
- → Light colour is closer to daylight.

Additional Regulations for Xenon Low Beam

In the ECE region, headlights with Xenon low beams may only be used in conjunction with automatic or dynamic headlight range adjustment and levelling system as well as a headlight cleaning system. This regulation takes into account the intense luminous performance of the Xenon bulb and is designed to ensure the safety of all road users.

How They Work

A sophisticated ballast supplies the ignition voltage required to ignite the gas between two electrodes. This ignition voltage can be up to 30kV in 4th generation ballasts. Inside the bulb is a mixture of inert Xenon gas, metals and metal halides, which are ionised upon ignition resulting in a powerful light arc.

During the controlled supply of alternating current (at approx. 400Hz) the liquid and solid substances evaporate, due to high internal temperatures. The lamp only achieves its full brightness after a few seconds when all the components have been ionised. To prevent destruction of the lamp through uncontrolled increases in current, the current is limited by a ballast. Once the full light output has been reached, an operating voltage (not the ignition voltage) of only 85V is necessary to maintain the physical process. The luminous flux, light output, luminance and service life of Xenon HID bulbs significantly surpasses halogen bulbs.





D2R







D1R

D1S

Fault Diagnosis

Check whether the ballast is attempting to ignite the bulb after the light has been switched on. Ignition attempts can be heard clearly near the headlight.

If ignition attempts are unsuccessful, the Xenon bulb should be checked by swapping it with one from the other headlight and the process tried again. If no ignition attempt is carried out, the fuse should be checked.

If the fuse is functional, check the voltage and ground supply directly at the ballast. Voltage must be at least 9V for 12V systems. If the voltage ground supplies and the Xenon bulbs are functional a faulty ballast is likely to be cause of the problem.

Colour Match HID Bulbs

As HID bulbs age, the colour temperature increases resulting in a whiter light. When an HID bulb is replaced with a new bulb it can look yellow compared to the original bulb, and will whiten with use. If a white light from installation is desired, a colour match bulb may be used (D2R-5K, D2S-5K) which will be a closer match to the older bulb from the first use. These bulbs are ECE compliant.

Xenon Gas Discharge (HID) Conversions

Available online and from some importers HID conversion kits, which enable the buyer to swap the halogen bulb and replace it with a non-compliant HID bulb. This illegal and dangerous combination can cause excessive glare and poses a considerable hazard for other road users. These conversion kits are illegal to use on public roads in New Zealand.

(Refer to http://www.nzta.govt.nz and 'Get your lights right')

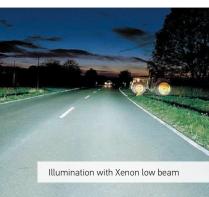
	HALOGEN BULB (H7)	GAS DISCHARGE LAMP (HID)	
Light source:	Filament	Light arc	
Luminance:	1450 cd/m ²	3000 cd/m ²	
Capacity:	55W	35W	
Energy balance:	8% light radiation 92% heat radiation	28% light radiation 58% heat radiation 14% UV radiation	
Service life:	Approx. 500 hours	Approx. 2500 hours	
Vibration-proof:	To a certain extent	Yes	
Ignition voltage:	No	Yes 23000V (3rd generation)	
Electronic control:	No	Yes	

Tips for Dealing with HID Electronic Ballasts

A faulty ballast leads to complete headlight failure. Possible causes for failure of the ballast are:

- → Lack of voltage/sufficient current supply.
- → Lack of ground connection.
- → Faulty electronics of the device.
- → Internal short-circuits.





QUICK REFERENCE BULB GUIDE





CONVENTIONAL SIGNAL AND MARKER BULBS								
BAYONET	WEDGE	FESTOON	PLASTIC					
X								
PΔGF 326	PΔGF 328	PΔGE 332	PΔGF 327					

QUICK REFERENCE UPGRADE BULB GUIDE



COOL BLUE (CB) AND BLUE VISION (BV) - WHITER (UP TO 4200°K)

These bulbs come close to emulating the colour of a Xenon HID lamp. The high colour temperature of the Cool Blue bulbs creates the crisp white light which provides illumination that is conspicuous while being easy on the eye

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	Н1	C1255CB	ADR COMPLIANCE	12V	55W	P14.5s	320
D	НЗ	YC1255CB	ADR COMPLIANCE	12V	55W	PK22s	321
	H4	XD1260/55CB	ADR COMPLIANCE	12V	60/55W	P43t	318
	Н7	CA1255CB	ADR COMPLIANCE	12V	55W	PX26d	319
ight v	HB3	CB1265CB	ADR COMPLIANCE	12V	65W	P20d	323
3	HB4	CC1255CB	ADR COMPLIANCE	12V	55W	P22d	323
	T4W	HL124BV	ADR COMPLIANCE	12V	4W	BA9s	331
	W5W	W125BV	ADR COMPLIANCE	12V	5W	W2.1 x 9.5d	329

LONGLIFE (LL) - UP TO TWICE THE LIFE



LongLife (LL) bulbs are increasing in popularity for applications such as taxis and drivers using headlamps during the day. Many new vehicles now come equipped with LongLife bulbs as a standard fitment. The bulbs will provide safe and legal light performance and can be rated at twice or greater the service life of standard bulbs.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	Н1	C1255LL	ADR COMPLIANCE	12V	55W	P14.5s	320
	Н3	YC1255LL	ADR COMPLIANCE	12V	55W	PK22s	321
	H4	XD1260/55LL	ADR COMPLANCE	12V	60/55W	P43t	318
	H7	CA1255LL	ADR COMPLIANCE	12V	55W	PX26d	319
	R5W	G125LL	ADR COMPLANCE	12V	5W	BA15s	330
	C5W	L125LL	ADR COMPLANCE	12V	5W	SV8.5-8	332
	P21W	R1221LL	ADR COMPLIANCE	12V	21W	BA15s	326
	P21/5W	S1221/5VLL	ADR COMPLIANCE	12V	21/5W	BAY15d	327
	W5W	W125LL	ADR COMPLIANCE	12V	5W	W2.1 x 9.5d	329
	894	CF1237-894	SAE COMPLUNCE	12V	37.5W	PGJ13	324
	898	CF1237-898	SAE COMPLUNCE	12V	37.5W	PGJ13	324



XENON (X) - UP TO + 30% BRIGHTER

This bulb outshines a standard headlamp bulb by achieving up to 30% greater illumination on the road in the 50-75m range allowing better orientation and earlier reaction to hazards.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	Н1	C1255X	ADR COMPLIANCE	12V	55W	P14.5s	320
	НЗ	YC1255X	ADR COMPLIANCE	12V	55W	PK22s	321
	H4	XD1260/55X	ADR COMPLIANCE	12V	60/55W	P43t	318
(De-)	H7	CA1255X	ADR COMPLANCE	12V	55W	PX26d	319
	H11	CG1255X	ADR COMPLIANCE	12V	55W	PGJ19-2	322



XENON ULTRA (XU) - UP TO + 60% BRIGHTER

Xenon Ultra bulbs take lighting even further by providing up to 60% more illumination on the road than a standard headlamp bulb while emitting a 10-20m longer beam.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	H1	C1255XU	ADR COMPLIANCE	12V	55W	P14.5s	320
	H4	XD1260/55XU	ADR COMPLIANCE	12V	60/55W	P43t	318
	H7	CA1255XU	ADR COMPLIANCE	12V	55W	PX26d	319

Lifetime and performance gains are compared to standard versions of the bulb. Greater performance is measured between 50 and 75m in front of vehicle.



ULTRA PLUS (UP) - UP TO + 110% BRIGHTER

Ultra Plus bulbs are the ideal bulbs for drivers looking to increase safety with more light on the road. This halogen bulb produces up to 110% more light on the road, has a beam that is up to 35 metres longer and provides light that is up to 10% whiter than a standard bulb.

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	Н1	C1255UP	ADR COMPLIANCE	12V	55W	P14.5s	320
	Н3	YC1255UP	ADR COMPLANCE	12V	55W	PK22s	321
	H4	XD1260/55UP	ADR COMPLIANCE	12V	60/55W	P43t	318
(Comments	H7	CA1255UP	ADR COMPLIANCE	12V	55W	PX26d	319
in the second	HB3	CB1265UP	ADR COMPLANCE	12V	65W	P20d	323
****	HB4	CC1255UP	ADR COMPLIANCE	12V	55W	P22d	323
100	H11	CG1255UP	ADR COMPLIANCE	12V	55W	PGJ19-2	322

Truckstar Pro

TRUCKSTAR® PRO - UP TO 2.5 TIMES THE LIFETIME AND 100% GREATER ILLUMINATION.

 $At night, truck drivers need the best possible light on the road ahead. Truck star ^{\circ} Pro \ out-performs \ conventional$ 24V bulbs, allowing drivers to concentrate on the essentials. With their extremely long life and robust construction, these bulbs save on replacements and downtime, reducing fleet costs

UPGRADE BULBS							
Bulb	Category	Part Number		Voltage	Power Consumption	Base	Page
	Н1	C2470TS	ADR COMPLIANCE	24V	70W	P14.5s	320
	НЗ	YC2470TS	ADR COMPLIANCE	24V	70W	PK22s	321
	H4	XD2475/70TS	ADR COMPLIANCE	24V	75/70W	P43t	318
(Company	H7	CA2470TS	ADR COMPLIANCE	24V	70W	PX26d	319
	R5W	G245-TS	ADR COMPLIANCE	24V	5W	BA15s	330
	R10W	G2410-TS	ADR COMPLIANCE	24V	10W	BA15s	330
	T4W	HL244-TS	ADR COMPLIANCE	24V	4W	BA9s	331
	P21W	R2421-TS	ADR COMPLIANCE	24V	21W	BA15s	326





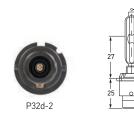






D2 - COLOUR MATCH BULBS								
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category				
D2R	12/24V	35W	P32d-3	D2R				
D2R-5K Whiter	12/24V	35W	P32d-3	D2R				





D2S		12/24V	35W	P32d-2	D2S
D2S-5K	Whiter	12/24V	35W	P32d-2	D2S

See page 311 for further information on colour match bulbs (5K). See page 146 for information on power packs and ballast leads.





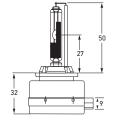
P32d-2/3

D2S - SUITABLE FOR WORK LAMPS (AMBER)						
Part Number	lumber Voltage Power Consumption Base Ca					
HMXN4YEL	12/24V					

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AUTOMOTIVE BULBS

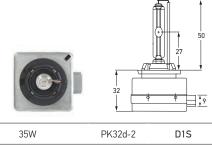




D1					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
D1R	12/24V	35W	PK32d-3	D1R	



P/N D1R



See page 146 for information on power packs and ballast leads.

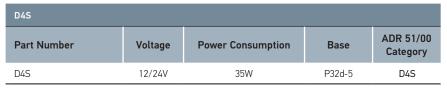
12/24V

D1S



P/N D1S







AUTOMOTIVE BULBS



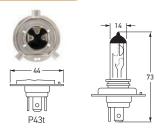
P/N XD1260/55UP



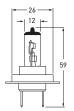
P/N XD1260/55X



P/N XD2475/70



HALOGEN BULBS - H4						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
XD1260/55	12V	60/55W	P43t	H4		
XD1260/55-BULK	12V	60/55W	P43t	H4		
XD1260/55LL LongLife	12V	60/55W	P43t	H4		
XD1260/55X Plus 30%	12V	60/55W	P43t	H4		
XD1260/55X-BULK Plus 30%	12V	60/55W	P43t	H4		
XD1260/55XU Plus 60%	12V	60/55W	P43t	H4		
XD1260/55UP Plus 110%	12V	60/55W	P43t	H4		
XD1260/55CB Whiter	12V	60/55W	P43t	H4		
XD12100/90	12V	100/90W	P43t			
XD12100/90-BULK	12V	100/90W	P43t			
XD2475/70	24V	75/70W	P43t	H4		
XD2475/70-BULK	24V	75/70W	P43t	H4		
XD2475/70TS Truckstar)	24V	75/70W	P43t	H4		
XD2475/70TSBULK (Truckstar)	24V	75/70W	P43t	H4		
XD24100/90	24V	100/90W	P43t			
XD24100/90-BULK	24V	100/90W	P43t			
Bulk packs supplied in single ca	artons.					





HALOGEN BULBS - H7						
Part Number	Part Number		Power Consumption	Base	ADR 51/00 Category	
CA1255		12V	55W	PX26d	H7	
CA1255-BULK		12V	55W	PX26d	H7	
CA1255LL	LongLife	12V	55W	PX26d	H7	
CA1255X	Plus 30%	12V	55W	PX26d	H7	
CA1255XU	Plus 60%	12V	55W	PX26d	H7	
CA1255UP	Plus 110%	12V	55W	PX26d	H7	
CA1255CB	Whiter	12V	55W	PX26d	H7	
CA2470		24V	70W	PX26d	H7	
CA2470-BULK		24V	70W	PX26d	H7	
CA2470TS	Truckstar Pro	24V	70W	PX26d	H7	
CA2470TS-BULK	Truckstar Pro	24V	70W	PX26d	H7	
Bulk packs supplied	in single ca	rtons.				







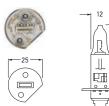
P/N C1255



P/N C1255UP

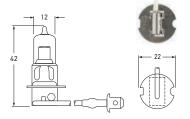


P/N C1255CB



HALOGEN BULBS - H1					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
C1255	12V	55W	P14.5s	H1	
C1255-BULK	12V	55W	P14.5s	H1	
C1255LL LongLife	12V	55W	P14.5s	H1	
C1255X Plus 30%	12V	55W	P14.5s	H1	
C1255XU Plus 60%	12V	55W	P14.5s	H1	
C1255UP Plus	12V	55W	P14.5s	H1	
C1255CB Whiter	12V	55W	P14.5s	H1	
C12100	12V	100W	P14.5s		
C2470	24V	70W	P14.5s	H1	
C2470-BULK	24V	70W	P14.5s	H1	
C2455	24V	55W	P14.5s		
C2455-BULK	24V	55W	P14.5s	-	
C2470TS Truckstar	24V	70W	P14.5s	H1	
C2470TS-BULK Truckstar	24V	70W	P14.5s	H1	
C24100	24V	100W	P14.5s		
C24100-BULK	24V	100W	P14.5s	-	
Bulk packs supplied in single ca	artons.				





HALOGEN BULBS - H3					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
YC1255	12V	55W	PK22s	Н3	
YC1255-BULK	12V	55W	PK22s	H3	
YC1235	12V	35W	PK22s		
YC1255LL LongLife	12V	55W	PK22s	Н3	
YC1255X Plus 30%	12V	55W	PK22s	Н3	
YC1255UP Plus	12V	55W	PK22s	H3	
YC1255CB Whiter	12V	12V 55W PK22s		H3	
YC12100	12V	100W	PK22s		
YC12100-BULK	12V	100W	PK22s		
YC2470	24V	70W	PK22s	H3	
YC2470-BULK	24V	70W	PK22s	H3	
YC2455	24V	55W	PK22s		
YC2455-BULK	24V	55W	PK22s		
YC2470TS Truckstar	24V	70W	PK22s	H3	
YC2470TS-BULK Truckstar	24V	70W	PK22s	H3	
YC24100	24V	100W	PK22s	,	
YC24100-BULK	24V	100W	PK22s		
Bulk packs supplied in single	cartons.				



P/N YC1255UP



P/N YC2470TS



HALOGEN BULBS - H2						
Part Number	Voltage	ADR 51/00 Category				
CD1255	12V	12V 55W		H2		
CD2470	24V	70W	X511	H2		



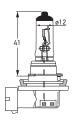
P/N CD2470





P/N CE1235



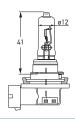


HALOGEN BULBS - H8						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
CE1235	12V	35W	PGJ19-1	H8		



P/N CF1265



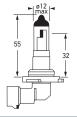


HALOGEN BULBS - H9						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
CF1265	12V	65W	PGJ19-5	H9		



P/N CH1242



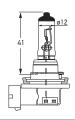


HALOGEN BULBS - H10				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CH1242	12V	42W	PY20d	H10



P/N CG

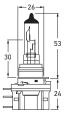




N CG1255	HALOGEN BUL	.BS - H11				
A	Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category
	CG1255		12V	55W	PGJ19-2	H11
	CG1255X	Plus 30%	12V	55W	PGJ19-2	H11
700	CG1255UP	Plus 110%	12V	55W	PGJ19-2	H11
- 17	CG1255CB	Whiter	12V	55W	PGJ19-2	H11
1055110	CG2470		24V	70W	PGJ19-2	H11
CG1255UP					*	-

322





DAYTIME RUNNING LAMP AND FOG LAMP BULB				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
XH1215/55	12V	15/55W	PGJ23t-1	H15



P/N XH1215/55



HALOGEN BULBS - HB3				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
CB1265	12V	65W	P20d	HB3
CB1265UP Plus	12V	65W	P20d	HB3
CB1265CB Whiter) 12V	65W	P20d	HB3



P/N CB1265UP



HALOGEN BULB					
Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category
CC1255		12V	55W	P22d	HB4
CC1255UP	Plus 110%	12V	55W	P22d	HB4
CC1255CB	Whiter	12V	55W	P22d	HB4



P/N CC1255UP



P/Ns CF1237-CF1237-894, CF12 CF1227-889



P/N CF1227-880

HALOGEN BULBS - 800 SERIES



P/N CF1227-881



P/N CF1227-889



P/N CF1227-890

	Part Number	Picture	Voltage	Power Consumption	Base	ADR 51/00 Category
	CF1227-880	4	12V	27W	PG13	880
7-862, 1250-886,	CF1227-881	2	12V	27W	PGJ13	881
89.	CF1227-889	1	12V	27W	PGJ13	889
	CF1227-890	3	12V	27W	PG13	890



P/Ns CF1227-881, CF1227-H27W/2 CF1237-896, CF1237-898.



P/N CF1227-H27W/1



P/N CF1227-H27W/2

CF1227-H27W/1	4	12V	27W	PG13	H27W/1
CF1227-H27W/2	2	12V	27W	PGJ13	H27W/2







P/N CF1237-862/894



P/N CF1237-893



P/N CF1237-896/898

CF1237-862		1	12V	37.5W	PGJ13	862
CF1237-893		4	12V	37.5W	PG13	893
CF1237-894	LongLife	1	12V	37.5W	PGJ13	894
CF1237-896		2	12V	37.5W	PGJ13	896
CF1237-898	LongLife	2	12V	37.5W	PGJ13	898



P/Ns CF1227-880, CF1227-H27W/1, CF1237-893.



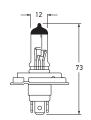
P/N CF1250-885



P/N CF1250-886

CF1250-885	3	12V	50W	PG13	885
CF1250-886	1	12V	50W	PGJ13	886

AUTOMOTIVE BULBS





HALOGEN HEADLAMP BULBS							
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category			
XE1260/55	12V	60/55W	P45t-41				
XE2475/70	24V	70/75W	P45t-41				



P/N XE1260/55

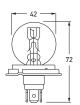




HEADLAMP BULBS						
Part Number Voltage		Power Consumption	Base	ADR 51/00 Category		
1235/35	12V	35/35W	BA15d			



9	
P/N	1235/35

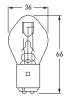


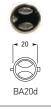


		ı		P45t-41
A1245/40	12V	45/40W	P45t-41	R2
A2455/50	24V	55/50W	P45t-41	R2



P/N A1245/40





B1245/40	12V	45/40W	BA20d



AUTOMOTIVE BULBS



P/N R1221

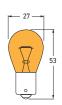


P/N RY1221









BAYONET INDICATOR AND STOP LAMP BULBS					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
R1221	12V	21W	BA15s	P21W	
R1221-BULK	12V	21W	BA15s	P21W	
R1221LL LongLife	12V	21W	BA15s	P21W	
RY1221	12V	21W	BAU15s	PY21W	
RY1221-BULK	12V	21W	BAU15s	PY21W	
R2418	24V	18W	BA15s		
R2421	24V	21W	BA15s	P21W	
R2421-BULK	24V	21W	BA15s	P21W	
R2421-TS Truckstar	24V	21W	BA15s	P21W	
RY2421	24V	21W	BAU15s	PY21W	
Bulk bulbs (other than Halogen) are sold in packs of 10.					



P/N FD1221



			5.451	
FD1221	12V	21W	BA15d	PY21W

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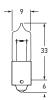


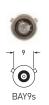
BAYONET STOP AND TAIL LAMP BULBS					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
S1221/5V	12V	21/5W	BAY15d	P21/5W	
S1221/5V-BULK	12V	21/5W	BAY15d	P21/5W	
S1221/5VLL LongLife	12V	21/5W	BAY15d	P21/5W	
S2421/5V	24V	21/5W	BAY15d	P21/5W	
S2421/5V-BULK	24V	21/5W	BAY15d	P21/5W	
Bulk bulbs (other than Halogen) are sold in packs of 10.					





BAYONET EUROPEAN STOP AND TAIL LAMP BULBS					
Part Number Voltage Power Consumption Base Cate					
SZ1221/4	12V	21/4W	BAZ15d	P21/4W	





BAYONET HALOGEN INDICATOR AND STOP LAMP BULBS					
Part Number Voltage Power Consumption Base Ca					
RQ1221	12V	21W	BAY9s	H21W	
RQ2421	24V	21W	BAY9s	H21W	





PLASTIC BASED BULBS					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
WP1227	12V	27W	W2.5 x 16d	P27W	
WP1227/7	12V	27/7W	W2.5 x 16q	P27/7W	
WPA1227/7	12V	27/7W	W2.5 x 16q	P27/7W	



P/N S1221/5V









P/N WP1227/7

P/N WPA1227/7





P/N CAP1221











WEDGE BASE BULBS					
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	
CAP1221	12V	21W	W3 x 16d	W21W	
CAP1221-BULK	12V	21W	W3 x 16d	W21W	
CAPY1221	12V	21W	W3 x 16d	WY21W	
CAP1221/5	12V	21/5W	W3 x 16q	W21/5W	
CAP1221/5-BULK	12V	21/5W	W3 x 16q	W21/5W	
Bulk bulbs (other than Halogen) are sold in packs of 10.					







W121.2	12V	1.2W	W2 x 4.6d	
W121.2-BULK	12V	1.2W	W2 x 4.6d	
WBL122	12V	2W	W2 x 4.6d	
WS122	12V	2W	W2 x 4.6d	
W241.2	24V	1.2W	W2 x 4.6d	
W241.2-BULK	24V	1.2W	W2 x 4.6d	
WS242	24V	2W	W2 x 4.6d	

WS1212

W1216

W1221







				W2.1 x 9
WEDGE BASE BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/0 Category
W122	12V	2W	W2.1 x 9.5d	
W123	12V	3W	W2.1 x 9.5d	W3W
W125	12V	5W	W2.1 x 9.5d	W5W

W3W
W5W
W5W
W5W
W5W
WY5W
W3W
W5W
W5W
W2.1 x 9.5d



P/N W12



P/N W125BV



P/N WY125



W2.1 x 9.5d

W2.1 x 9.5d

W2.1 x 9.5d



W16W



LED RETROFITS					
Part Number	Voltage	Power Consumption	Base	Temperature	
WLED125	12V	1W	W2.1x9.5d	6000°K	
WLED125-WW	12V	1W	W2.1x9.5d	4000°K	
Not for use in marker and signal lamps. WW = warm white.					

12W

16W

21W

12V

12V

12V







P/N G125







REAR POSITION, MARKER AND CLEARANCE BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
G125	12V	5W	BA15s	R5W
G125-BULK	12V	5W	BA15s	R5W
G125LL LongLife	12V	5W	BA15s	R5W
G1210	12V	10W	BA15s	R10W
G1210-BULK	12V	10W	BA15s	R10W
G245	24V	5W	BA15s	R5W
G245-BULK	24V	5W	BA15s	R5W
G245-TS Truckstar	24V	5W	BA15s	R5W
G2410	24V	10W	BA15s	R10W
G2410-BULK	24V	10W	BA15s	R10W
G2410-TS Truckstar	24V	10W	BA15s	R10W

Bulk bulbs (other than Halogen) are sold in packs of 10.



P/N GD125







GD125	12V	5W	BA15d	R5W
GD245	24V	5W	BA15d	R5W









P/N HL124

P/N HL124BV



PILOT/DASH BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
HL124	12V	4W	BA9s	T4W
HL124-BULK	12V	4W	BA9s	T4W
HL124BV Whiter	12V	4W	BA9s	T4W
HL244	24V	4W	BA9s	T4W
HL244-BULK	24V	4W	BA9s	T4W
HL244-TS Truckstar	24V	4W	BA9s	T4W
HL247	24V	7W	BA9s	











H122	12V	2W	BA9s	
H123	12V	3W	BA9s	
H123-BULK	12V	3W	BA9s	
H126	12V	6W	BA9s	
H126-BULK	12V	6W	BA9s	
H1210	12V	10W	BA9s	
H242	24V	2W	BA9s	
H242-BULK	24V	2W	BA9s	
Bulk bulbs (other than Halogen)	are sold in packs	s of 10.		

0
P/N H126

LED RETROFITS				
Part Number	Voltage	Power Consumption	Base	Temperature
HLLED124	12V	1W	BA9s	6000°K
HLLED124-WW	12V	1W	BA9s	4000°K
Not for use in marker and signa	al lamps. WW = v	varm white.		





P/N K1221



P/N K2410

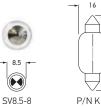


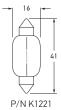
P/N L125LL

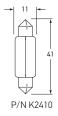


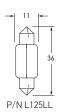
P/N M123



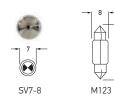




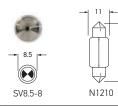




FESTOON BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
K1210	12V	10W	SV8.5-8	
K1210-BULK	12V	10W	SV8.5-8	
K1221	12V	21W	SV8.5-8	C21W
K1221-BULK	12V	21W	SV8.5-8	C21W
K2410	24V	10W	SV8.5-8	
K2410-BULK	24V	10W	SV8.5-8	_
K2421	24V	21W	SV8.5-8	
K2421-BULK	24V	21W	SV8.5-8	
L125	12V	5W	SV8.5-8	C5W
L125-BULK	12V	5W	SV8.5-8	C5W
L125LL LongLife	12V	5W	SV8.5-8	C5W
L1210	12V	10W	SV8.5-8	
L245	24V	5W	SV8.5-8	C5W
L245-BULK	24V	5W	SV8.5-8	C5W
L2410	24V	10W	SV8.5-8	
L2410-BULK	24V	10W	SV8.5-8	



M123	12V	3W	SV7-8	
M123-BULK	12V	3W	SV7-8	
M243	24V	3W	SV7-8	
M2//3-RIII K	2///	3W	SV7-8	



N1210	12V	10W	SV8.5-8	
N1210-BULK	12V	10W	SV8.5-8	

Bulk bulbs (other than Halogen) are sold in packs of 10.







MINIATURE BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
J122	12V	2W	BA7s	
J243	24V	3W	BA7s	









DASHBOARD BULBS				
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
WD121.2-BULK	12V	1.2W	B8.5d	
WD241.2-BULK	24V	1.2W	B8.5d	
Bulk bulbs (other than Halogen) are sold in packs of 10.				

Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category
WD121.2-BULK	12V	1.2W	B8.5d	
WD241.2-BULK	24V	1.2W	B8.5d	
Bulk bulbs (other than Halogen) are sold in pack	s of 10.		

LED RETROFITS					
Part Number	Voltage	Power Consumption	Base	Temperature	
LLED125	12V	1W	SV8.5-8	6000°K	
LLED125-WW	12V	1W	SV8.5-8	4000°K	







P/N YL125



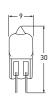




HALOGEN/INTERIOR BULBS										
Part Number	Voltage	ADR 51/00 Category								
YL125	12V	5W	BA9s							
YL126	12V	6W	BAX9s	H6W						
YL1210	12V	10W	BA9s							
YL1220	12V	20W	BA9s	-						





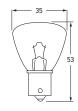


12V	5W	G4	
12V	10W	G4	
12V	20W	G4	
24V	10W	G4	
24V	20W	G4	
	12V 12V	12V 10W 12V 20W	12V 10W G4 12V 20W G4 24V 10W G4



P/N U1245

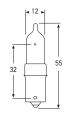




SPECIAL BULBS FOR EMERGENCY FLASHER AND REVOLVING LAMPS										
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category						
U1245	12V	45W	BA15s							
U2445	24V	45W	BA15s							





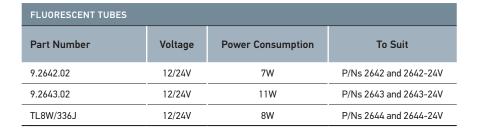




YL1250TF	12V	50W	BA15s	









STROBE TUBES										
Part Number	Voltage	Power Consumption	Base	To Suit						
XN000	12-72V	2 Joules	Circuit Board	Firebolt						
XN451	12-48V	8 Joules	Circuit Board	Pulsator 451						
XN602	12-48V	12 Joules	Circuit Board	602 Series						
XN850	12-48V	12 Joules	Circuit Board	851 Series						
XN6000	12/24V	10+2 Joules		KLX Junior						
XN7000	12/24V	10+2 Joules	X1	KLX 7000						







P/N XN451







P/N XN850

P/N XN6000

P/N XN7000

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.



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.

HELLA	Engineering Drawing No.	A.D.R. No.	Function	
Part No.		48/00	Number Plate Lamp	
2550	001386-28		Number Plate Lamp	
2551	001386-29	48/00	Number Plate Lamp	
2553	951068-02	48/00	Number Plate Lamp	
	950921-00	48/00		
2554	001389-10	48/00	Number Plate Lamp	
2555	001367-10	48/00	Number Plate Lam	

3. Look up the part number on the chart on page 340 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 (page 340). 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

ADR 48/00

ADR 6/00: Cat.2

ADR 49/00

ADR 49/00

ADR 47/00

ADR 1/00

Rear End Outline Lamps Number Plate Lamps

Rear Direction Indicators

Rear Position Lamps

Stop Lamps

Rear Retro Reflectors

Reversing Lamps

SIDE

8 ADR 47/00

Side Retro Reflectors

ADR 45/01 or 74/00 Side Markers

ADR 6/00

Supplementary Side Direction Indicators

FRONT

11 ADR 49/00

ADR 45/01

ADR 6/00: Cat.1

ADR 50/00

ADR 46/00

ADR 49/00

ADR 47/00

ADR 76/00

Front End Outline Lamps

Cab Markers (optional)

Front Direction Indicators

Front Fog Lamps (optional)

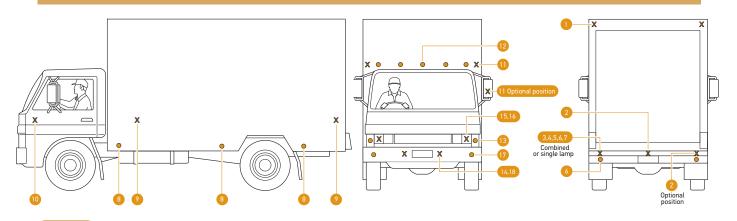
Headlamps

Front Position Lamps

Front Retro Reflectors

Daytime Running Lamps (optional)

SMALL TRUCK



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.



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.

HELLA	Engineering Drawing No.	A.D.R. No.	Function	
Part No.		48/00	Number Plate Lamp	
2550	001386-28	48/00	Number Plate Lamp	
2551	001386-29		Number Plate Lamp	
2553	951068+02	48/00	Number Plate Lamp	
	950921-00	48/00		
2554	001389-10	48/00	Number Plate Lamp	
2555	001307-03	48/00	Number Plate Lam	

3. Look up the part number on the chart on page 340 for complete ADR information.

Simpler ADR Compliance

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To simplify the ADR approval process for smaller manufacturers and individual home-builders, HELLA has made a consolidated Summary

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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 (page 340). 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

ADR 48/00

ADR 6/00: Cat.2

ADR 49/00

ADR 49/00

ADR 1/00

ADR 47/00

Rear End Outline Lamps Number Plate Lamps

Rear Direction Indicators

Rear Position Lamps

Stop Lamps

Rear Retro Reflectors

Reversing Lamps

SIDE

8 ADR 47/00

Side Retro Reflectors

ADR 45/01 or 74/00 Side Markers ADR 6/00

Supplementary Side Direction Indicators

FRONT

11 ADR 49/00

ADR 45/01

ADR 6/00: Cat.1

ADR 50/00

ADR 46/00

ADR 49/00

ADR 47/00

ADR 76/00

Front End Outline Lamps

Cab Markers (optional) Front Direction Indicators

Front Fog Lamps (optional)

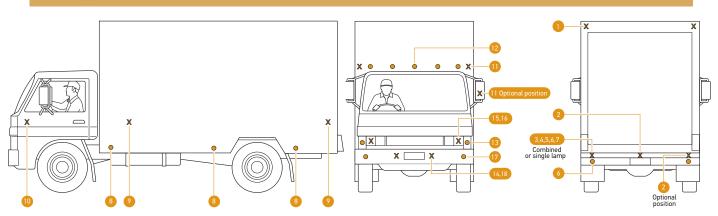
Headlamps

Front Position Lamps

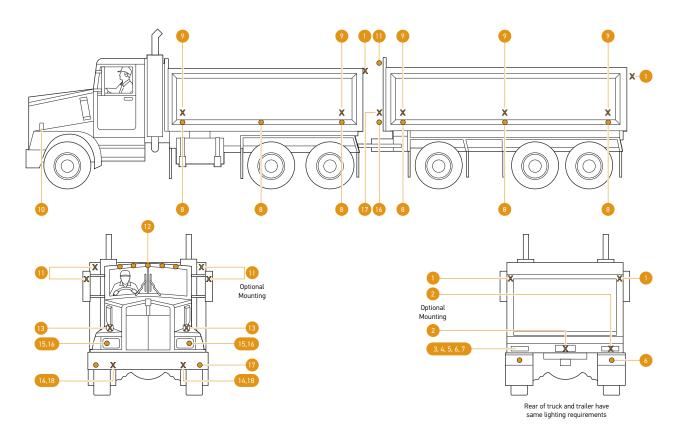
Front Retro Reflectors

Daytime Running Lamps (optional)

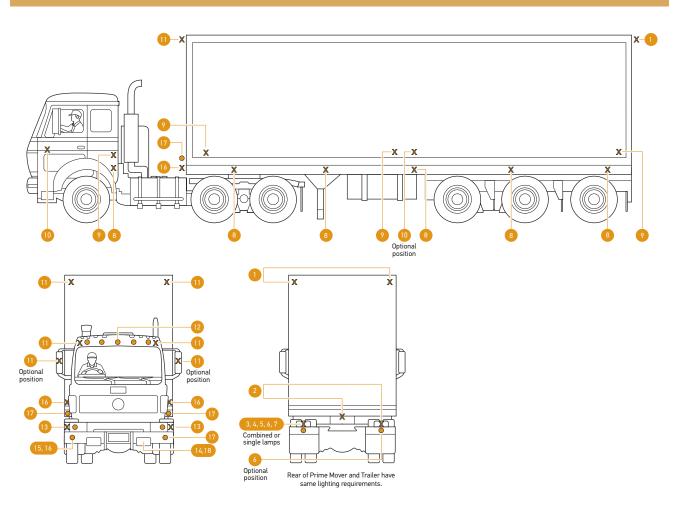
SMALL TRUCK



SINGLE TRAILER



SEMI TRAILER



REAR

ADR 49/00 Rear End Outline Lamps
 ADR 48/00 Number Plate Lamps
 ADR 6/00: Cat.2 Rear Direction Indicators
 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

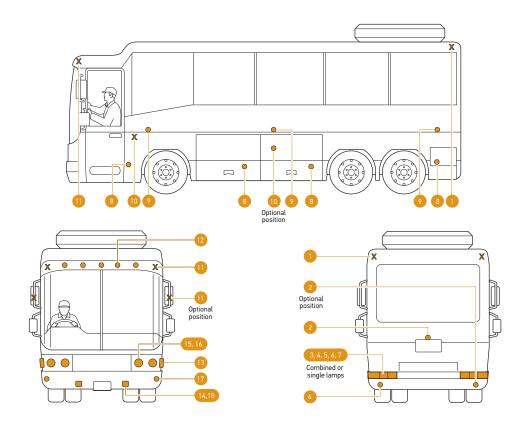
11 ADR 49/00 Front End Outline Lamps
 12 ADR 45/01 Cab Markers (optional)
 13 ADR 6/00: Cat.1 Front Direction Indicators
 14 ADR 50/00 Front Fog Lamps (optional)

15 ADR 46/00 Headlamps

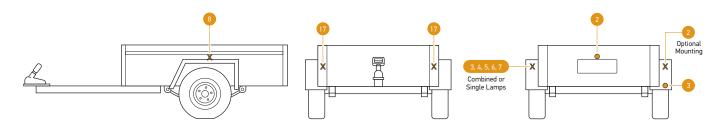
ADR 49/00 Front Position Lamps
ADR 47/00 Front Retro Reflectors

18 ADR 76/00 Daytime Running Lamps (optional)

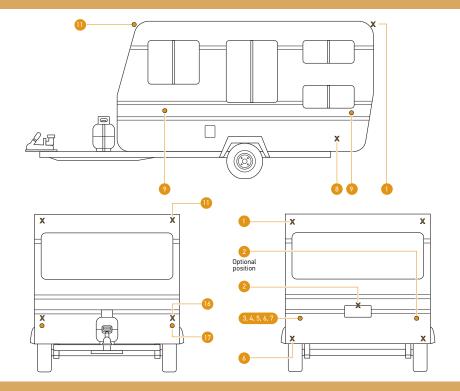
COACH



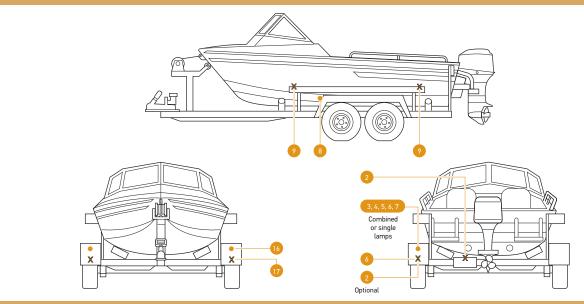
SMALL TRAILER



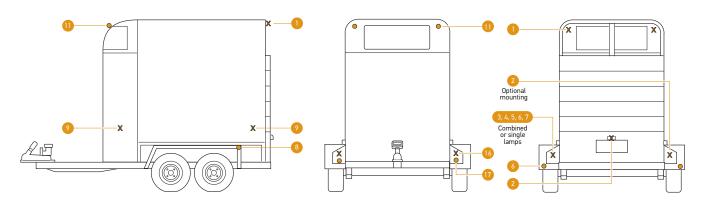
CARAVAN



BOAT TRAILER



HORSE FLOAT



HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1000	012614-00	76/00	Daytime Running Lamp	R1221	P21W	DRL*1000*B	27424	911-353-51	RL 008701
		6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*1001*A	15230		016086
1001	950957-00	46/00	Headlamp	XD1260/55	H4	HL*1001*A	15232	911-351-00	(Turn Signal) 17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*1001*A	15231		(Headlamp)
1003	980608-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1003*A	41607	980-703-11	9060
1004	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R- 000002	980-703-10	E24 0002 (0670)
1005 1005-24V	980680-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R- 000001	980-703-12 980-703-24	E24 0001 (0680)
1006	980690-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1006*A	42763	980-703-47	0690
		76/00	Daytime Running Lamp						
1007-24V	980690-40	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-53	0690
1008	980680-11						E24 87R-	980-703-68	E24 0001
1008-24V	980680-61	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	000001	980-703-69	(0680)
1009	980880-00					DRL*1009*A	44200		
1009-24V	980880-10	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009-24V*A	44202	958-780-04	0880
1009V	980880-40					1009V*DRL*C	45962		
1009V-24V	980880-50	76/00	Daytime Running Lamp	LED	N/A LED	1009-24VDRLC	45965	958-780-92	0880 B
1013	980970-00					DRL*1013*A	44776		
1013-24V	980970-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1013-24V*A	44783	958-780-44	0970
1013-244		46/00	Headlamp	XD1260/55	H4	HL*1027*A	15311		
1027	003434-18	49/00	Front Position Lamp	HL124	T4W	FP*1027*A	15317	911-352-79	17016
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 T4W	HL*1030*A FP*1030*A	32009	911-353-79	917
10/1	002177 0/	49/00	Front Position Lamp (1030 only)	HL124			32014	011 251 0/	
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
4050		49/00	Front Position Lamp	HL124	T4W	FP*1044*A	15074	011 051 14	
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^1U54^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
1033115		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 &	002395-13 (950519-00) &	46/00	Headlamp	XD1260/55	H4	HL*1058*A	15096	911-351-18	53
1058HD	002395-26	49/00	Front Position Lamp	HL124	T4W	FP*1058*A	15097		
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
1124	001951-10	50/00	Front Fog Lamp	YC1255	Н3	N/A ECE	03B E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R19
1125	001952-10	50/00	Front Fog Lamp	YC1255	Н3	N/A ECE	03B E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R19

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1126	001953-10	50/00	Front Fog Lamp	YC1255	Н3	N/A ECE	03B E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R19
1145CHROME	002608-02	50/00	Front Fog Lamp	YC1255	H3	FF*1145*A	31075	911-351-37	915
1162	004700-02	50/00	Front Fog Lamp	YC1255	H3	FF*1162*A	15136	911-351-38	8390R19
1178	009094-00	50/00	Front Fog Lamp	CA1255	H7	FF*1178*A	34092	911-353-96	02 1901
1178CHROME	009094-01			_					
1304	956327-01	46/00	High Beam Headlamp	CD1255	H2	HL*1304*A	15115	911-351-40	24462R8
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	Н3	HL*1309*A	15132	911-351-44	0444410R8
1309CHROME	003590-41								
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	Н3	HL*1311*A	15254	911-351-46	0444444
1311BLUE			15.1.0				20100	011 050 //	1/50000
1316CHROME	002537-19	46/00	High Beam Headlamp	YC1255	H3	HL*1316*A	30100	911-353-64	14520R8
1318	008773-00	46/00	High Beam Headlamp	CA1255	H7	HL*1318*A	32057	911-353-82	1655
1318BLUE	008773-06						0.4000	044 050 ::	
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	НЗ	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	НЗ	N/A ECE	HR 01 12.5 E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R112
1363	004700-15	46/00	High Beam Headlamp	CD1255	H2	HL*1363*A	15141	911-351-51	34518R8
1364	004700-43	46/00	High Beam Headlamp	CD1255	H2	HL*1364*A	15353	911-353-05	0434518
1371	008273-00	46/00	High Beam Headlamp	C1255	H1	HL*1371*A	26741	911-353-40	04HR 999
1373	008273-04	77/00	High Beam Headlamp	XN4000	D2S	HL*1373*A	26742	911-353-41	00DR 999
1378	009094-02								
1378BLUE	009094-171	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	DIS	N/A ECE	E1 002087	HKG 460 818-21 & Refer ADR 13/00	E1 002087
1200LED	011002 001	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 40 E1 3161	HKG 460 818-26 & Refer ADR	E1 3161
1389LED	011002-001	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	PL 02 A E1 3161	13/00	E1 3101
1401	951215-02	1/00	Reversing Lamp	R1221	P21W	RL*1401*A	15202	911-351-52	91999
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
		1/00	Reversing Lamp	R1221	P21W	RL*1406*A	15130		
1406	003236-31	49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*1406*B	15292	911-351-54	8728R23
1408	997506-40	1/00	Reversing Spotlamp	YC1255	H3	RL*1408*A	37918	911-355-11	23005
1409	005700-19	1/00	Reversing Spotlamp	YC1255	H3	RL*1409*B	38593	911-355-13	2185
1410	005860-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1410*A	37919	911-355-12	2186
1413	002694-00	1/00	Reversing Lamp	R1221	P21W	RL*1413*A	15129	911-351-57	8708R23
1430-H	959070-50					RL*1430-H*A	36417		
1430-V	959070-55	1/00	Reversing Lamp	LED	N/A LED	RL*1430-V*A	36418	959-150-10	9060
				_			204.0		-

Math	HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
	1433	959820-00	1/00	Reversing Lamp	LED	N/A LED	RL*1433*A	33190	959-149-69	9020
	1446-H	959041-30					RL*1446-H*A	35980		
Name Mathem 600 montpolar control of the control of t	1446-V	959041-40	1/00	Reversing Lamp	LED	N/A LED	RL*1446-V*A	36243	959-149-95	9040
	1459	959930-12	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-19	9930
Money Mone			1/00	Reversing Lamp	LED	N/A LED	RL*1461*A	45442		
March Part March Part March Part	1461	980762-01	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633	958-780-72	0760
140	1465	959930-00	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-04	
	1467	959930-11	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-18	— 9930
200 1012 1012 1010	1490	959010-50	1/00	Reversing Lamp	LED	N/A LED	RL*1490*A	36253	959-150-16	9010
Page	2000	901227-24	49/00	·	L125	C5W	FP*2000*A	15243	911-351-58	45633
2009 19071-26 2009 2	2006	910315-04	45/01	Side Marker Lamp	L125	C5W	SM*2006*A	15148	911-351-60	910320
Mathematical Process			45/01	Side Marker Lamp			SM*2009*A	15245		
2009-1-19 1900	2009	900711-26	49/00	Front Position Lamp	- L125	C5W	FP*2009*A	15307	911-351-63	900627
Part			45/01	Cab Marker Lamp			CM*2019*A	15217		
2020 90711-29 49700 Front End Outline Lamp 128 Fig. Fig. 128-22 1	2019	950059-04	49/00	Front End Outline Lamp	- GD125	R5W	FE0*2019*A	15356	911-351-66	950065
Part			6/00: Cat 5	Supp. Side Direction Indicator Lamp			DI*2020*A	15303		
	2020	900711-29	49/00	Front End Outline Lamp	L125	C5W	FE0*2020*A	25815	911-352-78	900626
1985 1985			45/01	Cab Marker Lamp			CM*2026*A	25025		
2027 2027 2027 2029 2019 201 2010 2010 2029 2029 2019 201 2010 2010 2029 2010 20	2026	959660-30	6/00: Cat 5	Supp. Side Direction Indicator Lamp	- LED	N/A LED	SDI*2026*A	25725	959-149-17	9560
2022 90139-11 85701 546 54			45/01	Cab Marker Lamp		-	CM*2027*A	42856		
2030 900139-02 4000 Cat 5 Supp. Side Direction Indicator Lamp LED N/A LED SDP/20307A 15146 911-351-70 910049 2031 959700-00 4000 Cat 5 Supp. Side Direction Indicator Lamp LED N/A LED SDP/20317A 30788 959-149-55 9700 2033 959700-20 45701 Side Marker Lamp LED N/A LED SDP/20317A 31432 959-149-55 9700 2036 900139-04 45701 Side Marker Lamp LED CSW SMP/20377A 31542 959-149-58 9700 2037 900139-05 46701 Side Marker Lamp L125 CSW SMP/20377A 15164 991-351-72 910049 2038 90139-05 46701 Side Marker Lamp M123 N/A Type M123 SMP/2047A 15192 991-351-74 91089 2042 905055-01 45701 Side Marker Lamp M123 N/A Type M123 SMP/2047A 15192 991-351-74 91089 2043 976463-09 1/00 Reversing Lamp R1221 P21W R120467A 15300 991-351-83 91089 2044 905055-02 46700 Supp. Side Direction Indicator Lamp M123 N/A Type M123 D1720467A 15300 991-351-83 91089 2046 978807-02 46700 Reversing Lamp R1221 P21W R120467A 15300 991-351-83 91089 2047 983439-00 46700 Reversing Lamp R1221 P21W R120467A 15302 911-352-89 HNZ01 2048 983439-00 46700 Side Marker Lamp SM1 LED N/A LED SMP/2047A 27481 2051 979970-10 46700 Front End Outline Lamp LED N/A LED SMP/2047A 27481 2051 979970-10 46700 Front End Outline Lamp LED N/A LED SMP/2057A 27481 2051 979970-50 46700 Front End Outline Lamp LED N/A LED SMP/2057A 46630 999-149-14 9600 2054 979990-30 46700 Front End Outline Lamp LED N/A LED FDP/2054YA 46630 999-149-36 6400 2054 979990-30 46700 Front End Outline Lamp LED N/A LED FDP/2054YA 46530 999-149-36 6400 2055 979990-30 46700 Front End Outline Lamp LED N/A LED FDP/2054YA 46530 999-149-36 6400 2056 979990-30 46700 Front End Outline Lamp LED N/A LED FDP/2054YA 45630 999-149-36 6400 2056 979990-30 46700 Front E	2027 & 2027P	980660-00	6/00: Cat 5	Supp. Side Direction Indicator Lamp	- LED	N/A LED	SDI*2027*A	42857	980-703-13	6600
2031 99700-00 6/00-Cat5 Supp. Side Direction Indicator Lamp LED N/A LED SDP/20311A 30768 997-169-55 9700 2033 99700-20 45/01 Side Marker Lamp LED N/A LED SMP/20337A 51/32 997-149-58 9700 2037 900139-04 45/01 Side Marker Lamp L125 CSW SMP/2037A 51/34 911-351-73 910049 910339 91039-05 45/01 Side Marker Lamp L125 CSW SMP/2037A 51/34 911-351-73 910049 910339 91039-05 45/01 Side Marker Lamp L125 CSW FL/20387A 15/14 911-351-73 910049 910442	2029	900139-01	45/01	Side Marker Lamp	L125	C5W	SM*2029*A	15143	911-351-69	910049
2033 957700-20	2030	900139-02	6/00: Cat 5	Supp. Side Direction Indicator Lamp	L125	C5W	FL*2030*A	15146	911-351-70	910049
2037 900139-04 45/01 Side Marker Lamp	2031	959700-00	6/00: Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	SDI*2031*A	30768	959-149-55	9700
2038 900139-05 6/00. Cat Supp. Side Direction Indicator Lamp M123 N/A Type M123 SM*2042*A 15196 911-351-73 910049	2033	959700-20	45/01	Side Marker Lamp	LED	N/A LED		31432	959-149-58	9700
2042 905055-01 45/01 Side Marker Lamp M123 N/A Type M123 SM-2042*A 15192 911-351-74 910089 2043 91065-02 6/00-Ca15 Supp. Side Direction Indicator Lamp R1221 P21W RL*2043*A 15111 911-351-75 R.D. 48138 2044 905055-02 6/00-Ca15 Supp. Side Direction Indicator Lamp R1221 P21W RL*2044*A 16360 911-351-83 910089 2046 958607-02 49/00 Front End Outline Lamp or Front End Outline Lamp or Front End Outline Lamp or R125 R5W FP*2046*A 15329 911-352-89 HNZ01 2047 963639-00 49/00 Front End Outline Lamp LED N/A LED SM*2047*A 27321 27321 8405054 8405055-01 8405055-01 84900 Front End Outline Lamp LED N/A LED SM*2047*A 27321 9405055-01 95950-00 49/00 Front End Outline Lamp LED N/A LED SM*2047*A 27481 940505564 95950-00 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2053*A 24743 959-149-16 9560 95950-00 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED FP*2054X*A 40677 959-150-80 9560 95950-00 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED FP*2054X*A 40677 959-150-80 9560 95950-30 49/00 Front End Outline Lamp LED N/A LED FP*2054X*A 40677 959-149-26 E4 02 7597 95950-00 49/00 Front End Outline Lamp LED N/A LED FP*2056X*A 27380 959-149-26 E4 02 7597 95950-00 49/00 Front End Outline Lamp LED N/A LED FP*2056X*A 40677 959-149-38 9590 9560 9	2037	900139-04	45/01	Side Marker Lamp	L125		SM*2037*A	15144	911-351-72	910049
2043 910643-09 1/00 Reversing Lamp R1221 P21W R1-2043*A 15111 911-351-75 RD.68158 2044 90505-02 6/00; Ca15 Supp. Side Direction Indicator Lamp M123 N/A Type M123 D1*2044*A 16360 911-351-83 910089 2046 958607-02 49/00 Reversing Lamp R1221 P21W R1-2044*A 16360 911-351-83 910089 2047 963639-00 49/00 Front Position Lamp or Front End Outline Lamp Front Position Lamp or Front End Outline Lamp R1221 P21W R1-2044*A 15352 911-352-89 HNZ01 2047 963639-00 74/00 SM1 Side Marker Lamp. SM1 LED N/A LED SM*2047*A 27321 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27321 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27321 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00 74/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00	2038	900139-05	6/00: Cat 5	Supp. Side Direction Indicator Lamp	L125			15196	911-351-73	910049
2043 910643-09 1/00 Reversing Lamp R1221 P21W R1-2043"A 15111 911-351-75 RD.68158 2044 90505-02 6/00:Cat 5 Supp. Side Direction Indicator Lamp M123 N/A Type M123 D1*2044"A 16360 911-351-83 910089 2046 958607-02 49/00 Reversing Lamp R1221 P21W R1-2046*A 15329 2047 963639-00 49/00 Front Position Lamp or Front End Outline Lamp G125 R5W FP*2046"A 15352 911-352-89 HNZ01 2048 963639-01 47/00 Retro Reflector (Amber Side) N/A N/A RE*2047"A 27321 27481 2048 963639-01 49/00 Front Red Outline Lamp LED N/A LED SM*2047"A 27321 27481 2051 959570-10 49/00 Front Red Outline Lamp LED N/A LED SM*2047"A 27321 27481 2053 & 20536Mp 959640-50 45/01 Side Marker Lamp LED N/A LED SM*2053"A 24743 959-150-79 9560 2053 & 20536Mp 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 E240054 959-149-38 9590 2057 95960-00 45/01 Side Marker Lamp LED N/A LED FEO*2054X 27380 959-149-38 9590 2058 2058P 98060-00 45/01 Side Marker Lamp LED N/A LED FEO*2054"A 27432 959-149-38 9590 2059 95955-10 49/00 Front End Outline Lamp LED N/A LED FEO*2054"A 41597 960-703-13 6400 2060 960855-21 49/00 Front End Outline Lamp LED N/A LED FP*2059"A 45233 958-780-67 958-780-70 958-78	2042	905055-01	45/01	Side Marker Lamp	M123	N/A Type M123	SM*2042*A	15192	911-351-74	910089
1/00 Reversing Lamp R1221 P21W Rt.'2046'A 15329 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2047'A 27321 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2047'A 27481 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2047'A 27481 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2037'A 27481 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2037'A 27481 Front Position Lamp or Front End Outline Lamp LED N/A LED SM*2037'A 24743 959-150-79 9560	2043	910663-09	1/00	Reversing Lamp	R1221	P21W	RL*2043*A	15111	911-351-75	R.D.68158
1/00	2044	905055-02	6/00: Cat 5	Supp. Side Direction Indicator Lamp	M123	N/A Type M123	DI*2044*A	16360	911-351-83	910089
2047 2047 27400			1/00	Reversing Lamp	R1221	P21W	RL*2046*A	15329		_
2047 963639-00 47/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00:SMI Side Marker Lamp: SMI LED N/A LED SM*2047*A 27321 74/00:SMI 47/00 Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00: Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00: Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00: Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00: Retro Reflector (Amber Side) N/A N/A RE*2047*A 27481 74/00: Retro Reflector (Amber Side) N/A LED N/A LED FEO*2051X*A 40676 959-150-79 9560 756	2046	958607-02	49/00	'	G125	R5W	FP*2046*A	15352	911-352-89	HNZ01
2048 Possible Po			74/00 SM1	Side Marker Lamp: SM1	LED	N/A LED	SM*2047*A	27321		
2048 Post	2047	963639-00	47/00	Retro Reflector (Amber Side)	N/A	N/A	RE*2047*A	27481		
2051 959570-10 49/00 Front End Outline Lamp LED N/A LED FEO*2051X*A 40676 959-150-79 9560			74/00: SM1	Side Marker Lamp: SM1	LED	N/A LED	SM*2047*A	27321	911-353-34	9605
2051 959570-10 49/00 Front End Outline Lamp LED N/A LED FEO*2051X*A 40676 959-150-79 9560	2048	963639-01	47/00	Retro Reflector (Amber Side)	N/A	N/A	RE*2047*A	27481		
2053GMD 95960-30 45/01 Side Marker Lamp LED N/A LED SM*2053*A 24/43 959-149-16 9580 2054 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 E4 02 7597 2056 959590-30 49/00 Front End Outline Lamp LED N/A LED FE0*2056*A 27380 959-149-26 E4 02 7597 2057 95950-00 45/01 Cab Marker Lamp LED N/A LED CM*2057*A 27432 959-149-28 9590 2058 & 2058P 98060-00 45/01 Side Marker Lamp LED N/A LED SM*2058*A 41597 980-703-13 6600 2059 980855-01 49/00 Front End Outline Lamp LED N/A LED FP*2059*A 45233 958-780-67 0855 2060 980855-	2051	959570-10					FE0*2051X*A	_	959-150-79	9560
Pront End Outline Lamp LED N/A LED Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outline Lamp LED N/A LED Pront End Outline Lamp Pront End Outlin		959660-50	45/01	Side Marker Lamp	LED	N/A LED	SM*2053*A	24743	959-149-16	9560
Pront End Outline Lamp LED N/A LED N/A LED AUZ EZ4 U034 959-149-26 E4 U2 7597	2054	959570-50	49/00	'	LED	N/A LED	FP*2054X*A	40677	959-150-80	9560
2057 959650-00 45/01 Cab Marker Lamp LED N/A LED CM*2057*A 27432 959-149-42 9650 2058 & 2058P 980660-00 45/01 Side Marker Lamp LED N/A LED SM*2058*A 41597 980-703-13 6600 2059 980855-01 49/00 Front Position Lamp or Front End Outline Lamp 2060 980855-20 49/00 Front End Outline Lamp 2060 P80855-21 49/00 Front Position Lamp or Front End Outline Lamp 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp 2062 & 2062P 980660-30 49/00 Front Position Lamp or Front End Outline Lamp 2063 990761-25 49/00 Front Position Lamp or Front Position Lamp or Front End Outline Lamp 2064	2055	959590-40	49/00		LED	N/A LED	N/A ECE	A 02 E24 0054	959-149-26	E4 02 7597
2058 & 2058P 980660-00 45/01 Side Marker Lamp LED N/A LED SM*2058*A 41597 980-703-13 6600 2059 980855-01 49/00 Front Position Lamp or Front End Outline Lamp 2060 980855-20 49/00 Front End Outline Lamp LED N/A LED FP*2059*A 45233 958-780-67 0855 2060 980855-20 49/00 Front End Outline Lamp LED N/A LED FE0*2060*A 45630 958-780-70 0855 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED TBA TBA 958-780-95 6600 2062 & 2062P 980660-30 49/00 Front Position Lamp or Front Position Lamp or Front Position Lamp Pront Position Lamp or Front Position Lamp or LED N/A LED TBA TBA 958-780-96 6600	2056	959590-30	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2056*A	27380	959-149-38	9590
2059 980855-01 49/00 Front Position Lamp or Front End Outline Lamp 2060 980855-20 49/00 Front End Outline Lamp 2061 & 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp 2062 & 2062P 980660-30 49/00 Front Position Lamp or Front End Outline Lamp 2063 980855-21 49/00 Front Position Lamp or Front End Outline Lamp 2064 & 2062P 980660-30 49/00 Front Position Lamp or Front End Outline Lamp 2065 Front Position Lamp or Front End Outline Lamp 2066 Front Position Lamp or Front End Outline Lamp 2067 Front Position Lamp or Front Position Lamp or Front End Outline Lamp 2068 PR2063*A 9007/41-25 49/00 Front Position Lamp or Front End Outline Lamp 2068 PR2063*A 9007/41-25 49/00 Front Position Lamp or Front End Outline Lamp 2069 Front Position Lamp or Front Position Lamp or Front Position Lamp or Front End Outline Lamp 2060 PR2063*A 9007/41-25 49/00 Front Position Lamp or Front End Outline Lamp 2060 PR2063*A 9007/41-25 49/00 Front Position Lamp or Front P	2057	959650-00	45/01	Cab Marker Lamp	LED	N/A LED	CM*2057*A	27432	959-149-42	9650
2059S 980855-02 49/00 Front End Outline Lamp LED N/A LED FP*2059*A 45233 958-780-67 0855 2060 980855-20 49/00 Front End Outline Lamp LED N/A LED FE0*2060*A 45630 958-780-70 0855 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED TBA TBA 958-780-95 6600 2062 & 2062P 980660-30 49/00 Front Position Lamp or Front	2058 & 2058P	980660-00	45/01	Side Marker Lamp	LED	N/A LED	SM*2058*A	41597	980-703-13	6600
2059S 980855-02 49/00 Front End Outline Lamp LED N/A LED FP*2039*A 49/233 998-780-67 U895 2060 980855-20 49/00 Front End Outline Lamp LED N/A LED FE0*2060*A 45630 958-780-70 0855 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED TBA TBA 958-780-95 6600 2062 & 2062P 980660-30 49/00 Front Position Lamp LED N/A LED TBA TBA 958-780-96 6600 2063 9007/1-25 49/00 Front Position Lamp or Front Position	2059	980855-01	10.100	Front Position Lamp or	1.55	N/A : 53		/F000	050 500 :=	0055
2060S 980855-21 49/00 Front End Outline Lamp LED N/A LED FE0*2060*A 45630 958-780-70 0855 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED TBA TBA 958-780-95 6600 2062 & 2062P 980660-30 49/00 Front Position Lamp LED N/A LED TBA TBA 958-780-96 6600 2063 & 9007/1-25 69/00 Front Position Lamp or Front Po	2059S	980855-02	49/00		LΕD	N/A LED	FP^2059*A	45233	958-780-67	U855
2060S 980855-21 2061 & 2061P 980660-20 49/00 Front Position Lamp or Front End Outline Lamp LED N/A LED TBA TBA 958-780-95 6600 2062 & 2062P 980660-30 49/00 Front Position Lamp LED N/A LED TBA TBA 958-780-96 6600	2060	980855-20	10.15	5 .5 10 " .				15165	050 555 5	
2062 & 2062P 980660-20 49/00 Front End Outline Lamp LED N/A LED TBA 1BA 958-780-96 6600 2062 & 2062P 980660-30 49/00 Front Position Lamp LED N/A LED TBA TBA 958-780-96 6600 2063 9007/1-25 /9/00 Front Position Lamp or 1125 C5W EP*20/3*Δ 15282 911-351.76 10833	2060S	980855-21	49/00	Front End Outline Lamp	LED	N/A LED	FEU*2060*A	45630	958-780-70	0855
2062 & 2062P 980660-30 49/00 Front Position Lamp LED N/A LED TBA TBA 958-780-96 6600 2063 9007/1-25 69/00 Front Position Lamp or L125 C5W EP*2063*Δ 15282 911-351.76 10833	2061 & 2061P	980660-20	49/00	·	LED	N/A LED	ТВА	ТВА	958-780-95	6600
	2062 & 2062P	980660-30	49/00		LED	N/A LED	TBA	TBA	958-780-96	6600
700/41-25 49/00 Front End Outline Lamp LI29 C5W FP 2003 A 15262 911-351-76 10833	2063	900741-25	49/00		L125	C5W	FP*2063*A	15282	911-351-76	10833
2064 003014-07 49/00 Front Position Lamp or Front End Outline Lamp Front End Outline Lamp										

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2065	001227-24	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2065*A	15244	911-351-78	2254
2066	006679-00	49/00	Front Position Lamp or Front End Outline Lamp	G1210	R10W	FP*2066*A	15253	911-351-79	0121691
2067	006679-01	45/01 49/00	Cab Marker Lamp Front End Outline Lamp	G125	R5W	CM*2067*A FEO*2067*A	15361 15360	911-353-23	TV25
2071	980990-40	49/00	Front End Outline Lamp	LED	N/A LED	2071*FE0M*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*FE0M*C	45944	958-780-89	0990
2076	980990-10	45/01 6/00: Cat 5	Cab Marker Lamp Supp.Side Direction Indicator Lamp	- LED	N/A LED	2076*ECM*C 2076*SDI*C	45810 45811	958-780-89	0990
		6/00: Cat 5	Supp.Side Direction Indicator Lamp	L125		DI*2077*A	15204		
2077	901227-06	49/00	Front End Outline Lamp	L125	C5W	FE0*2077*A	25617	911-351-80	910001
		47/00	Rear Position Lamp or				23017		
2078	901227-23	49/00	Rear End Outline Lamp	- L125	C5W	RR*2078*A	15250	911-351-81	910001
		6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2084*A	15226		
2084	950905-00	6/00: Cat 5	Supp.Side Direction Indicator Lamp	- G125	R5W			911-351-86	2084
		49/00	Front Position Lamp			FP*2084*A	15227		_
		6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2085*A	15225		
2085	950905-01	6/00: Cat 5	Supp. Side Direction Indicator Lamp	- G125	R5W			911-351-87	2085
		49/00	Front Position Lamp			FP*2085*A	15224		_
2100	901227-04	6/00: Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2100*A	15212	911-351-88	910001
2101	002939-17	6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2101*A	29439	911-353-58	32710
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	_				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	DI*2105C*A	40148		
2105CLR-CS	959932-05	- 0,00.001	Tront Birection maleutor Earnp	LLD		N/A ECE	1 01 E24 0023	959-150-93	1 01 E24 0023
2105-CS	959932-01					N/A ECE	1 01 E24 0023	959-150-93	1 01 E24 0023
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
2100-03		49/00	Front Position Lamp			N/A ECE	A 02 E24 5851	737-130-72	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	0,00.041	Tront Birection malcator Lamp			DI*2107C*A	41609	700-703-17	
2108-GMD	980691-11	6/00: Cat 1	Front Direction Indicator Lamp					980-703-70	
2108-GMD24V	980690-00	49/00 76/00	Front Position Lamp Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-29	0690
2117	001227-23	6/00: Cat 5	Supp.Side Direction Indicator Lamp	L125	C5W	FL*2117*A	15193	911-351-89	2254
2117	001227 23	49/00	Front End Outline Lamp	L125	C5W	FE0*2117*A	25698	711 331 07	2234
2118	004965-80	6/00: Cat 5	Supp.Side Direction Indicator Lamp	W125	W5W	FL*2118*A	15169	911-351-90	42710R6
		6/00: Cat 5	Supp.Side Direction Indicator Lamp			FL*2123*A	15142		
2123	900797-05	45/01	Cab Marker Lamp	G125	R5W	CM*2123*A	15215	911-351-95	49935
		49/00	Front End Outline Lamp			FE0*2123*A	15354		
2124	900797-06	49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*2124*A	15229	911-351-96	49935
		6/00: Cat 5	Supp. Side Direction Indicator Lamp			FL*2125*A	15213		
2125	900797-07	45/01	Cab Marker Lamp	GD125	R5W	CM*2125*A	15214	911-351-97	49935
		49/00	Front End Outline Lamp			FE0*2125*A	15355		
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	711-331-77	IV.D.10033
			E de la						
2128	900763-30	6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2128*A	15273	911-352-00	R.D.10833

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2128LED	959932-30					DI*2105M*A	36805		
2128LEDCLR	959932-35	- 6/00: Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148	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
2131-CS	959932-15	6/00: Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851	980-703-03	1 01 E24 5851
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	A 02 E24 5851		A 02 E24 5851
2132-CS	959932-16	6/00: Cat 1 49/00	Front Direction Indicator Lamp Front Position Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851 A 02 E24 5851	980-703-04	1 01 E24 5851 A 02 E24 5851
2133	959822-00	_				DI*2133*A	33191	959-149-71	9020
2133CS	959822-60	6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED				
2133-24V	959021-00					DI*2133-24V*A	30442	959-149-53	9020
2134	951215-00	6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2134*A	15199	911-352-01	91999
		49/00	Front End Outline Lamp	G125	R5W	FE0*2134*A	25596		
2135	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	FE0*2135*A	25578		
2135LED	959932-31	_				DI*2105M*A	36805	959-150-26	9930
2135LEDCLR	959932-36	6/00: Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148		
2135LEDCLR -CS	959932-08	0/00. Cat 1	Tront Direction material Lamp	LLD	NALLD	N/A ECE	1 01 E24 0023	980-703-01	1 01 E24 0023
2135LED-CS	959932-03					N/A ECE	1 01 E24 0023	980-703-01	1 01 E24 0023
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	FE0*2136*A	25579		
2136LED	959932-32	_				DI*2105M*A	36805	959-150-27	9930
2136LEDCLR	959932-37	6/00: Cat 1 F	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148		
2136LEDCLR -CS	959932-07 959932-04		Tront birection indicator Lamp	LLD	NALLD	N/A ECE	1 01 E24 0023	980-703-02	1 01 E24 0023
2136LED-CS	959932-04					N/A ECE	1 01 E24 0023	980-703-02	1 01 E24 0023
						12V Horiz	44203 44204		
2138	959031-00	6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Vert	44204	958-780-39	9030
2130	737031-00					24V Vert	44209	730-700-37	7030
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
2139	900940-00	6/00: Cat 5	Supp.Side Direction Indicator Lamp	M123	N/A TYPE M123	DI*2139*A	15287	911-352-68	900933
		6/00: Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2140*A	15190	711 002 00	
2140	900947-00	49/00	Front End Outline Lamp	L125	C5W	FE0*2140*A	25580	911-352-04	52612
2141	900947-05	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2141*A	15176	911-352-05	52612
		6/00: Cat 1& 6/00: Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2142*C	15318		
2142	905141-02	6/00: Cat 5	Supp.Side Direction Indicator Lamp	G125	R5W	FL*2142*B	15203	911-352-06	53174
		6/00: Cat6	Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2142*D	30062		
		6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2143*A	15110	044 055 55	
2143	910663-08	49/00	Front End Outline Lamp	G125	R5W	FE0*2143*A	25523	911-352-07	R.D.68158
						12V Horiz	44203		
		6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	24V Horiz	44204		9030
2143LED	2143LED	0, 00. Cat Za	car Birection mulcator Lamp	LLD	INALLU	12V Vert	44205	958-780-39	
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
2144LED-H	2144LED-H	6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040
2144LED-V	2144LED-V	0, 00: Cdt Zd	near offection mulcator Earlip		IN/A LLD	DI*2146-V*A	26180	/3/-14/-30	7040
2145	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	FE0*2145*A	25577	552 76	

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2146-H	959041-10					DI*2146-H*A	26179	959-149-30	
2146-HCS	959041-51	_						959-150-57	_
2146-H24	959041-50	-				DI*2146-H24*A	34498	959-149-88	_
2146-V	959041-20	- 6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-V*A	26180	959-149-30	— 9040
2146-VCS	959041-71	-				DI*2146-VCS*A	40650	959-150-57	_
2146-V24	959041-70	-				DI*2146-V24*A	36718	959-149-88	_
21/7	003014-01	6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2147*A	15168	011 252 11	32619R6
2147	003014-01	49/00	Front End Outline Lamp	G125	R5W	FE0*2147*A	25759	911-352-11	3201710
2148	003014-11	6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2148*A	15170	911-352-12	32661R6
2140	003014-11	49/00	Front End Outline Lamp	G125	R5W	FE0*2148*A	25761	711-332-12	
2149	003236-32	6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2149*A	15171	011 252 12	6R0132764
2147	003236-32	49/00	Front End Outline Lamp	G125	R5W	FE0*2149*A	25760	911-352-13	ORU132704
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	FE0*2150*A	25763		
2151	959070-00					FL*2151*A	16492	959-149-01	— 9060
2151-H 2151-HCS	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-NC3	959070-25	- 0/00: Cat 2a	iteal birection indicator camp	LLD	N/A LLD	FL*2151-V*A	36421	737-130-11	9060
2151-VCS	980607-50	-				DI*2151-VCS*A	2a 01 E24 5850	959-150-56	2a 01 E24 5850
2152	959070-20	6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	FL*2151*A	16492	959-149-03	9060
2153	006692-01	6/00: Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2153*B	30495	911-353-69	
2154	006692-02	6/00: Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2154*B	30497	911-353-70	— 52621
	008355-00		- Cappionae Direction marcator Earlip	R1221	P21W	SDI*2155*A	30498	711 000 70	1059
2155 & 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					DI*2156*A	26483	959-149-28	
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
2157	003236-17	6/00: Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2157*A	30405	911-353-72	42730
		6/00: Cat 1	Front Direction Indicator Lamp			 DI*2158*A	31781		
2158	004119-02	6/00: Cat 5	Supp.Side Direction Indicator Lamp	- R1221	P21W	SDI*2158*A	31802	911-353-78	536
		49/00	Front Position Lamp	W125	W5W	FP*2158*A	31807		
2159	959932-72					DI*2165*B	36056	959-150-23	9930
2159-CS	959932-54	6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	2a 01 E24 0023	980-703-06	2a 01 E24 0023
2160-24V	959021-10	6/00: Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2160*A	43274	980-703-52	9020
2161	980761-01	6/00: Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443		
2161-CS	980761-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633	958-780-73	0760
2165	959932-50					DI*2165-*B	36056	959-150-06	9930
2165-CS	959932-51	- 6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	2a 01 E24 0023	959-150-94	2a 01 E24 0023
2167	959932-71					DI*2165-*B	36056	959-150-22	9930
2167-CS	959932-53	6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	N/A ECE	2a 01 E24 0023	980-703-05	2a 01 E24 0023
2303	901227-19	49/00	Stop Lamp	K1221	C21W	RR*2303*A	15249	911-352-15	910001
2305	963639-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2305*A	24962		
	,55057 50	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2305*B	25036		
2306	963639-31	49/00	Rear Positon Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2305*A	24962	911-353-39	9808
2300	/03037=31	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2305*B	25036		
2307	959560-10	49/00	Rear Positon Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307X*A	40680	959-150-81	9560
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
			car Ena oattine Earnp						

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2310	980855-30		Rear Position Lamp or						
2310S	980855-31	49/00	Rear End Outline Lamp	LED	N/A LED	RR*2310*A	45631	958-780-71	0855
2311 & 2311P	980660-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	TBA	TBA	958-780-97	6600
2312	980990-60	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2312*RE0M*C	45945	958-780-91	0990
2314	900739-11	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/C21W	RR*2314*A	15316	911-352-83	10833
2315	900741-22	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/C21W	RR*2315*A	15310	911-352-84	10833
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position: Horiz			RP*2317H*A	42577		
2317	959030-00	49/00	Stop: Horiz	······ LED	N/A LED	ST*2317H*A	42579	959-149-05	9030
		49/00	Rear Position: Vert		N/A LLD	RP*2317V*A	42578		
		49/00	Stop: Vert		_	ST*2317V*A	42582		
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	711 332 10	
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position: Horiz			RP*2317H*A	42577		
2319LED	2319LED	49/00	Stop: Horiz	LED	N/A LED	ST*2317H*A	42579	959-149-05	9030
		49/00	Rear Position: Vert			RP*2317V*A	42578		
		49/00	Stop: Vert			ST*2317V*A	42582		
2320LED-H	2320LED-H				N/A	SL*2332-H24*A	34509		
		49/00	Stop Lamp	······ LED		RP*2332-H24*A	34502	959-149-87 9040	9040
2320LED-V	2320LED-V		Rear Position Lamp		N/A LED	SL*2332-V24*A	36722		
						RP*2332-V24*A	36721		
2321	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		
2322	003236-34	49/00	Rear Position Lamp or Rear End Outline Lamp	G125	R5W	RR*2322*A	15173	911-352-18	7R0111591
2323	003236-33	49/00	Stop Lamp	R1221	P21W	RR*2323*A	15174	911-352-19	11589
2324	006679-02	49/00	Rear Position Lamp or Rear End Outline Lamp	G1210	R10W	RR*2324*A	15251	911-352-20	0131470
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: Horiz	LED	N/A LED	RP*2330H1*A	42558	959-149-00	_
		49/00	Stop: Horiz			ST*2330H1*A	42560		9060
2331	959060-20	49/00	Rear Position: Vert	LED	N/A LED	RP*2330V1*A	42559	959-149-02	7000
		49/00	Stop: Vert			ST*23301*A	42561		
2330-H	959-060-35					SL*2330-H*A	36428		
		49/00	Stop Lamp	LED	N/A LED	RP*2330-H*A	36426	959-150-12	
2330-V	959-060-25		Rear Position Lamp			SL*2330-V*A	36429		
						RP*2330-V*A	36427		— 9060
2332-H24	959040-5x					SL*2332-H24*A	34509		
		49/00	Stop Lamp	LED	N/A LED	RP*2332-H24*A	34502	959-149-87	
2332-V24	959040-70		Rear Position Lamp			SL*2332-V24*A	36722		
						RP*2332-V24*A	36721		
2334	959074-50					SL*2334*A	26486		
		49/00	Stop Lamp	LED	N/A LED	RP*2334*A	26484	959-149-27	9074
2334-24V	959074-00		Rear Position Lamp			SL*2334-24V*A	26152		
						RP*2334-24V*A	26151		
2359	959931-12	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-21	9930
		49/00	Rear Position Lamp			RP*2365*B	36078		
		49/00	Stop Lamp	LED	N/A LED	ST*2361*A	45634		
2361	980760-01	49/00	Rear Position Lamp			RP*2361*A	45632	958-780-75	0760
		49/00	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
		49/00	Rear Position Lamp			RP*2365*B	36078		

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
	050004.00					SL*2366*A	33196	050 440 50	0000
2366	959821-00		Stop Lamp			RP*2366*A	33198	959-149-70	9020
		49/00	Rear Position Lamp	LED	N/A LED	SL*2366-24V*A	30445		
2366-24V	959020-00					RP*2366-24V*A	30443	959-149-52	9020
			Stop Lamp			ST*2365*B	36250		
2367	959931-11	49/00	Rear Position Lamp	LED	N/A LED	RP*2365*B	36078	959-150-20	9930
		6/00: Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2368*A	15278		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2368*B	15279		
2368	900807-01	48/00	Number Plate Lamp	L1210	N/A	LP*2368*B	15289	911-352-26	69079
		49/00	Rear Position / Stop Lamp	L1210/K1221	N/A/C21W	RR*2368*B	16361		
		6/00: Cat 2a	Rear Direction Indicator Lamp			2377*RDI*C	45253		
		49/00	Stop Lamp	LED	N/A LED	2377*ST*C	45256		
2377	980710-01	49/00	Rear Position Lamp			2377*RP*C	45254	958-780-66	0710
		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			2378*RDI*C	45258	958-780-63	
2378-CS	980613-20	49/00	Stop Lamp			2378*ST*C	45260		_
2378DT	980602-00			LED	N/A LED	2378*RP*C	45259		— 0710
2378DTCS	980602-20	49/00	Rear Position Lamp			2378*DT*RP*C	45257		_
2379	959050-00	6/00: Cat 2a	Rear Direction Indicator Lamp			DI*2379*A	30916	730 700 00	
2379-CS	959050-40	49/00	Stop Lamp	LED	N/A LED	SL*2379*A	30919	959-149-47	9050
2377-C3 2379-GMD	959050-41	49/00	Rear Position Lamp	·	N/A LLD	RP*2379*A	30917	050 150 55	9050
2380	980603-50	6/00: Cat 2a	Rear Direction Indicator Lamp			DI*2380*A	43630	737-130-33	
2380-GMD		49/00	· · · · · · · · · · · · · · · · · · ·				43632	958-780-05	9050
2380-BMD 2380-DT	980603-55	49/00	Stop Lamp	LED	N/A LED	SL*2380*A	43631		
	980615-01	_	Rear Position Lamp			RP*2380*A		958-780-35	9050
2380-DTGMD	980615-05	1/00	Reversing Lamp			RL*2380*A	43628		
	051001 01	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2382*A	15284	044 050 00	
2382		Number Plate Lamp	G125	R5W	LP*2382*A	15285	911-352-29	92000	
			Rear Position / Stop Lamp	G125/R1221	R5W/P21W	RR*2382*A	15286		
2384	003014-14	48/00	Number 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
		49/00	Rear Position Lamp			RP*2390*A	30650		
		1/00	Reversing Lamp			2391*RV*C	45251		
		6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2391*RDI*C	45248		
2391	980980-00	49/00	Stop Lamp			2391*ST*C	45262	958-780-58	0980
		49/00	Rear Position Lamp			2391*RP*C	45261		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2391*RR*C	45250		
		1/00	Reversing Lamp			2392*RV*C	45267		
2392L	980980-01	6/00: Cat 2a	Rear Direction Indicator Lamp	LED .	N/A LED	2392*RDI*C	45264		
		49/00	Stop Lamp			2392*ST*C	45268	958-780-59	0980
		49/00	Rear Position Lamp	LED	N/A LED	2392*RP*C	45265		
2392R	980980-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	2392*RR*C	45266		
		48/00	Number Plate Lamp	LED	N/A LED	2392*LP*C	45263		
		6/00: Cat 2a	Rear Direction Indicator Lamp			DI*2394*B	42034		
2394	980720-00	49/00	Stop Lamp	LED .	N/A LED	SL*2394*A	42037		
2074	700720 00	49/00	Rear Position Lamp			RP*2394*A	42036	958-780-56	
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A ECE	1A E24 5860		_
		6/00: Cat 2a	Rear Direction Indicator Lamp			DI*2395*B	42030		0720
		49/00	Stop Lamp	LED	N/A LED	SL*2395*C	42179	000	
2395	980720-40	49/00	Rear Position Lamp			RP*2395*C	42178	980 703-21 958-780-57	
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A ECE	1A E24 5860		
		48/00	Number Plate Lamp	LED	N/A LED	LP*2395*C	42175		
		6/00: Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2396*A	15239		
2396	905002-01	48/00	Number Plate Lamp	L125	C5W	LP*2396*A	15280	911-352-31	54519

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
		6/00: Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2397*A	15258		
2397	905168-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2397*A	15261	911-352-32	953811
		49/00	Rear Position / Stop Lamp	L125/K1221	C5W/C21W	RR*2397*A	15265	911-352-32 953811 911-352-32 953811 911-352-33 R.D.54 959-150-30 9010 911-352-34 953811 911-352-34 953811 911-352-36 92000 911-352-36 92000 911-353-56 9385/5	
		6/00: Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2398*A	15259		
2398	905070-00	49/00	Rear Position / Stop Lamp	L125	C5W/C21W	RR*2398*A	15266	911-352-32 911-352-33 959-150-30 911-352-34 911-352-34 911-352-36 911-353-56 911-353-57	R.D.54508
		6/00: Cat 2a	Rear Direction Indicator Lamp			DI*2399*A	37114	\$11-352-32 911-352-33 959-150-30 911-352-34 911-352-34 911-352-36 911-353-56 911-353-57 911-352-40 911-352-40	
2399	959010-20	49/00	Stop Lamp	LED	N/A LED	SL*2399*A	37116	911-352-34 911-352-34 911-352-34 911-352-34 911-352-36 911-352-40 911-353-57 911-352-40	9010
		49/00	Rear Position Lamp			RP*2399*A	37115		
		6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2400*A	15260		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2400*A	15262		
2400	910036-01	48/00	Number Plate Lamp	G1210	R10W	LP*2400*A	15263	911-352-34	953811
		49/00	Rear Position / Stop Lamp	G1210/R1221	R10W/P21W	RR*2400*A	15267		
		6/00: Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2402*B	15334		
2402	950027-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2402*B	15334	011 252 25	012051
2402	730027-02	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/C21W	RR*2402*B	15335	711-332-33	013031
			· · · · ·				_		
		6/00: Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	DI*2403*A	15331		
2403	950027-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2403*A	15333	911-352-94	13051
		49/00	Rear Position / Stop Lamp	L125/K1221	C5W/C21W	RR*2403*A	15332		
		1/00	Reversing Lamp	K1221	C21W	RL*2403*A	15337		
		6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2404*A	15241		
2404	951221-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2404*A	15288	911-352-36	92000
		48/00	Number Plate Lamp	S1221/5V	P21W/5W	LP*2404*A	15240		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2404*A	15242		
		1/00	Reversing Lamp			RL*2414*A	29428		
2414	604011	6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426	911-353-56	9385/9531
		49/00	Stop Lamp			SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
		1/00	Reversing Lamp			RL*2414*A	29428		
2415	606012	6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426	911_353_57	9385/9531
2413	004012	04012 49/00	Stop Lamp			SL*2414*A	29429	711-353-57	7303/7331
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
		6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2416*A	15269		
2416	954002-01	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2416*A	15274	911-352-40	013051
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2416*A	15276		
						12V Horiz	44203		
						24V Horiz	44204		
		6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Vert	44205		
						24V Vert	44209		
2416LED	2416LED	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948	959-150-39	9030
		49/00	Rear Position: Horiz			RP*2317H*A	42577		
		49/00	Stop: Horiz			ST*2317H*A	42579		
		49/00	Rear Position: Vert	LED	N/A LED	RP*2317V*A	42578		
		49/00	Stop: Vert			ST*2317V*A	42582		
		1/00	Reversing Lamp			RL*2417*A	15187		
				R1221	P21W				
2417	954 002-00	6/00: Cat 2a	Rear Direction Indicator Lamp		h1/A	DI*2417*A	15185	911-352-41	013051
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2417*A	15228		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2417*A	15186		
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		
		6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2420*A	15223		
2420	003184-10	48/00	Number Plate Lamp	G1210	R10W	LP*2420*A	15159	911-352-43	7R0153253
		49/00	Rear Position / Stop Lamp	G1210/R1221	R10W/P21W	RR*2420*A	15222		
		6/00: Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2421*A	15208		
2421	004623-00	48/00	Number Plate Lamp	G1210	R10W	LP*2421*A	15210	911-352-44	-44 7R01763
		49/00	Rear Position / Stop Lamp	G1210/R1221	R10W/P21W	RR*2421*A	15209		

					Bulb Type	Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
		6/00: Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz 24V Horiz 12V Vert	44203 44204 44205		
2422LED	2422LED	47/00 49/00	Retro Reflector (Red/Rear) Rear Position: Horiz	N/A	N/A	24V Vert RE*2317*A-1 RP*2317H*A	44209 22948 42577	959-150-38	9030
		49/00 49/00 49/00	Stop: Horiz Rear Position: Vert Stop: Vert	LED	N/A LED	ST*2317H*A RP*2317V*A ST*2317V*A	42579 42578 42582		
2423	958616-00	6/00: Cat 2a 47/00 49/00	Rear Direction Indicator Lamp Retro Reflector (Red/Rear)	R1221 N/A S1221/5V	P21W N/A P21W/5W	DI*2423*A RE*2423*A RR*2423*A	15338 15339 15340	911-352-92	HNZ01
2424	958616-01	6/00: Cat 2a 47/00	Rear Position / Stop Lamp Rear Direction Indicator Lamp Retro Reflector (Red/Rear)	R1221 N/A	P21W P21W N/A	DI*2424*A RE*2424*A	15340 15342 15343	911-352-93	HNZ01
		49/00 1/00	Rear Position / Stop Lamp Reversing Lamp	S1221/5V R1221	P21W/5W	RR*2424*A RL*2424*A RL*2424*A	15344 15341 15341	911-352-93	HNZ01
2424LED-H	2424LED-H	1/00	Reversing Lamp	R1221	P21W	DI*2146-H24*A SL*2332-H24*A	34498 34509	959-149-88	9040
2/2/150 1	2/2/150.7	6/00: Cat 2a 49/00 49/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp	LED	N/A LED	RP*2332-H24*A RL*2424*A DI*2146-V24*A	34502 15341 36718	911-352-93 959-149-88	HNZ01
2424LED-V	2424LED-V			_		SL*2332-V24*A RP*2332-V24*A	36722 36721	959-149-87	9040
2426-Н	959-040-801	6/00: Cat 2a	Rear Direction Indicator Lamp	···· LED	N/A LED	DI*2146-H24*A SL*2332-H24*A RP*2332-H24*A	34498 34509 34502	959-149-88	9040
2426-V	959-040-901	49/00 49/00	Stop Lamp Rear Position Lamp	LED	N/A LED	DI*2146-V24*A SL*2332-V24*A RP*2332-V24*A	36718 36722 36721	959-149-88 959-149-87	9040
2427-H	959-040-811					DI*2146-H24*A SL*2332-H24*A	34498 34509	959-149-88	9040
2427-V	959-040-911	6/00: Cat 2a 49/00 49/00	Rear Direction Indicator Lamp Stop Lamp Rear Position Lamp	LED	N/A LED	RP*2332-H24*A DI*2146-V24*A SL*2332-V24*A	34502 36718 36722	959-149-88	9040
		1/00		_	_	RP*2332-V24*A RL*1446-H*A	36721 35980	959-149-87	
2428-H	959-041-811	6/00: Cat 2a 49/00 49/00	Reversing Lamp Rear Direction Indicator Lamp			DI*2146-H24*A SL*2332-H24*A RP*2332-H24*A	34498 34509 34502	959-149-88 959-149-87	9040
2428-V	959-041-911	1/00 6/00: Cat 2a 49/00	Stop Lamp Rear Position Lamp	LED	N/A LED	RL*1446-V*A DI*2146-V24*A SL*2332-V24*A	36243 36718 36722	959-149-95 959-149-88 959-149-87	9040
2429	980760-80	49/00 6/00: Cat 2a	Rear Direction Indicator Lamp		_	DI*2161*A	36721 45443	958-780-73	_
2429-CS	980761-80	49/00 49/00	Stop Lamp Rear Position Lamp	LED	N/A LED	ST*2361*A RP*2361*A	45634 45632	958-780-75	0760
2430	980760-81	47/00 6/00: Cat 2a	Retro Reflector (Red/Rear) Rear Direction Indicator Lamp	N/A 	N/A LED	DI*2161*A	45633 45443	958-780-73	_
2430-CS	980761-81	49/00 49/00 47/00	Stop Lamp Rear Position Lamp Retro Reflector (Red/Rear)	LED N/A	N/A LED	ST*2361*A RP*2361*A RE*2161*A	45634 45632 45633	958-780-75	0760
2431	980760-82	6/00: Cat 2a 49/00	Rear Direction Indicator Lamp Stop Lamp	LED	N/A LED	DI*2161*A ST*2361*A	45443 45634	958-780-73 958-780-75	
2431-CS	980761-82	49/00 1/00	Rear Position Lamp Reversing Lamp	LED	N/A LED	RP*2361*A RL*1461*A	45632 45442	958-780-72	0760

HELLA Part No.	Engineering Drawing No.	ADR No.	Function	Bulb(s)	Bulb Type	HELLA Ref. or ECE	FORS Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2550	001386-28	48/00	Number Plate Lamp	L125	C5W	LP*2550*A	15157	911-352-45	12820
2551	001386-29	48/00	Number Plate Lamp	L125	C5W	LP*2551*A	15158	911-352-46	12820
2553	951068-02	48/00	Number Plate Lamp	G1210	R10W	LP*2553*A	15150	911-352-47	E1 22819
2554	950921-00	48/00	Number Plate Lamp	G1210	R10W	LP*2554*A	15236	911-352-48	2554
2555	001389-10	48/00	Number Plate Lamp	L125	C5W	LP*2555*A	15156	911-352-49	12815R4
2557	900967-03	48/00	Number Plate Lamp	HL124	T4W (2 Pieces)	LP*2557*A	15207	911-352-50	4151
2558	004525-00	48/00	Number Plate Lamp	L125	C5W (2 Pieces)	LP*2558*A	15326	911-352-85	22861
2559	959640-30	48/00	Number Plate Lamp	LED	N/A LED	LP*2559H*A	41602	980-703-00	9640
2902	002016-11	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2902*A	15180	911-352-51	0231290
2910	900913-04	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2910*A	15182	911-352-53	0231290
2915	002014-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2915*A	15152	911-352/3-55/50	0221353
2916	002014-05	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2916*A	15153	911-352/3-56/48	0221353
2917	002014-04	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2917*A	15154	911-352/3-57/49	0221353
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
2923	003326-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2923*A	15296	911-352/3-72/50	0292031
2924	003326-05	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2924*A	15295	911-352/3-73/49	0292031
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
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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
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HELLA New Zealand Warranty - Standing Behind Our Product

Warranty

All LED based lighting products supplied by HELLA New Zealand carry a Five-year end user warranty covering faults in materials, components or workmanship. All other products supplied by HELLA New Zealand carry a One-Year Warranty.

The majority of the LED based lighting products in this catalogue were designed and manufactured in New Zealand. Ever since HELLA New Zealand started designing LED transport lighting in 1990 we have adopted a no compromise Fit and Forget by Design philosophy. This philosophy as well as our dedication to on-going research into and adoption of new technology ensures that our products continue to set the bench mark in performance, durability and reliability.

We strive for our products and services to always fully meet our customers expectations. In the unlikely event that you should experience a problem with a HELLA product, our commitment to your satisfaction ensures that we will either repair, replace or refund the purchase price of the product.

Warranty services may be obtained by returning the product within the warranty period to the HELLA Dealer where the product was originally purchased.

This warranty is in addition to and does not preclude any other rights or remedies available to the consumer under the Consumer Guarantees Act.

ISO Certification

HELLA New Zealand is certified to the international quality standard ISO 9001:2008 for the design, manufacture and sale of automotive lighting and signalling equipment, marine navigation lighting, general lighting, LED based lighting and associated electronic control units, opto-electronic based printed circuit board assemblies, optical products and plastic components.



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BE SAFE BE SEEN

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'.

