



**HELLA NEW ZEALAND  
INTERNATIONAL CATALOGUE**



**LED Lighting Solutions for the Transport Sector**



# Welcome - Willkommen - Bienvenue - Benvenuto - Bienvenido

## HELLA-New Zealand Limited

HELLA-New Zealand's brand new international catalogue offers a comprehensive range of innovative LED lighting solutions for the transport sector.

Since the launch of our first LED automotive signal lamps in 1990, HELLA Design and Innovation continues to set new standards. HELLA innovative solutions have been incorporated into millions of lamps, engineered and tested to the most stringent standards, to suit the most demanding environmental conditions.

So when you select original parts with the HELLA label, you know that functional safety, a perfect fit and product durability are guaranteed.

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# HELLA INTRODUCTION

## ABOUT US

HELLA New Zealand strives to provide world-class products that contribute to the safety of the automotive and transport industry through enhanced vision and visibility.

### 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.

HELLA New Zealand's range of export products include the following:

- LED Driving Lights
- LED Marker and Signal Lamps
- LED Daytime Running Lamps
- LED Interior/Exterior Lighting
- LED Signal Warning Lamps
- LED Work Lamps
- Accessories

### HELLA International

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 34,000 employees.

With over 125 manufacturing facilities, 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 International consists of three regions:

- Europe
- Americas (NAFTA, South America)
- Asia-Pacific



HELLA Catalogue extracts from 1929/30





**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.

**ISO Certification**

HELLA-New Zealand Limited is certified to the International quality standard ISO 9001:2008 for 'The Design and Manufacture of Automotive Lighting and Signalling Equipment, General Lighting, Optical Products and Plastic Components. The Design and Manufacture of Marine Navigation Lighting, General Lighting, LED Based Lighting and Associated Electronic Control Units'.

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

**Warranty - Standing Behind Our Product**

All LED based lighting products supplied by HELLA-New Zealand Limited carry a 5-year warranty from end user purchase covering faults in materials, components or workmanship.

In the unlikely event that you should experience a confirmed warranty related problem with a HELLA product, our commitment to your satisfaction ensures that HELLA will, at our discretion, either repair or replace the product or refund the purchase price.

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 DOES NOT COVER:**

- Claim/s as a result of normal wear and tear, any modifications, alterations, non-compliance of assembly, service and operating instructions and/or any unfit or improper use.



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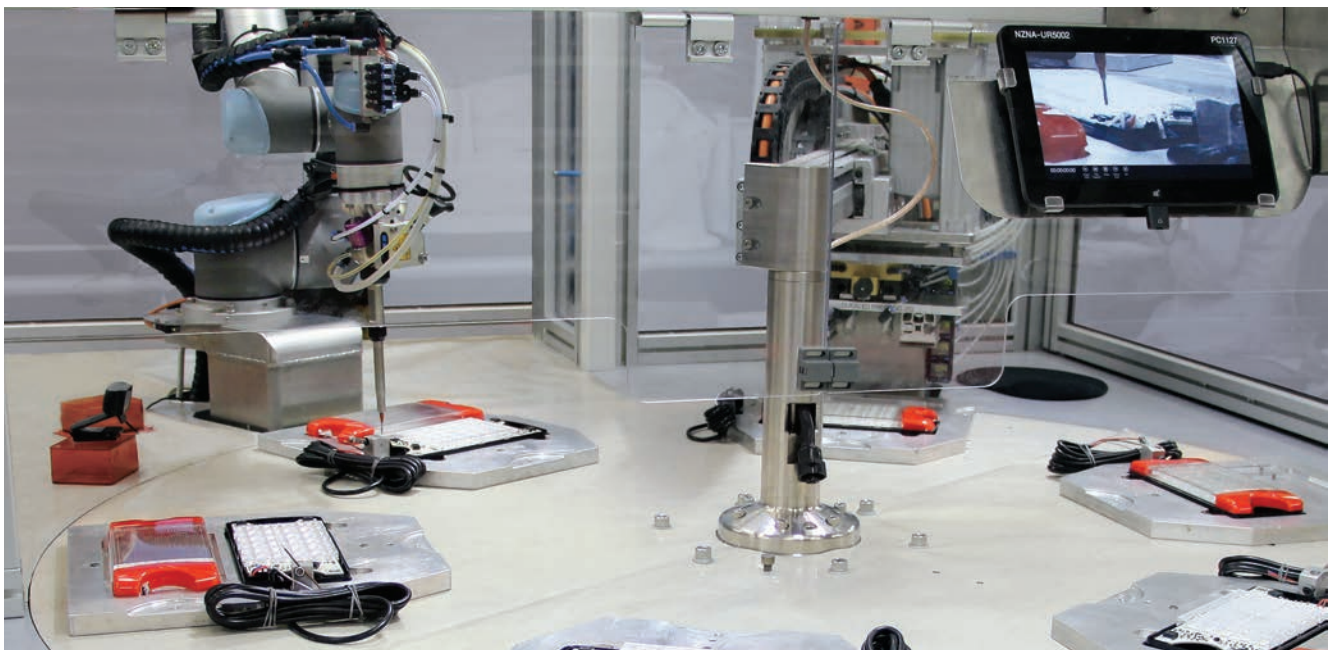
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# HELLA LIGHT EMITTING DIODE (LED) LAMP TECHNOLOGY

Our expanding range of LED based marker and signal lamps has been accepted as the most advanced lighting solutions to lower maintenance costs of commercial transport fleets and operators.



Since the launch of our first LED signal lamps in 1990, our innovative designs have set new standards and received considerable worldwide recognition. For over two decades we have refined our designs and developed production technologies now used in millions of lamps, all engineered and tested to the most demanding standards.

Our local research, product 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.

Their input has been invaluable and ultimately helped New Zealand manufactured LED technology products to succeed in world markets.

## Superior Lens and Optic Materials

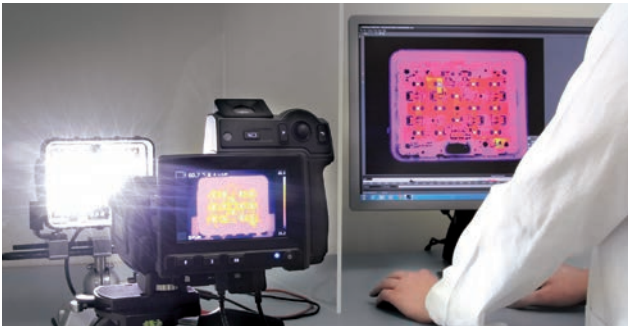
The majority of HELLA DuraLED and EuroLED lamps are produced using extra thick acrylic lenses – providing an ultra long term lighting solution and environmentally friendly choice.

For all commercial transport applications, HELLA recommends our hermetically sealed marker and signal lamps manufactured with a specially formulated enhanced high impact acrylic that has superior resistance to most commonly used wash and cleaning liquids.

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 operators of equipment exposed to very high vibration and impact conditions.



Left: Automated robotic manufacturing.  
Below: In-house design and thermal imaging camera testing.



#### UV Resistance

Some regions of the world are exposed to some of the highest and harshest UV radiation. 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. Our Grilamid® or high-impact acrylic LED lamps are designed to withstand the harshest environmental conditions and to tolerate long term exposure to high UV levels without fading or embrittlement.

## Fit and Forget by Design

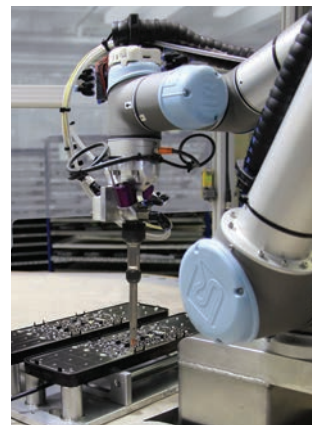
### What it means for you.

**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 were conducted, followed by months of field tests before the first DuraLED was ever sold to a customer. Over the past 19 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.



Automated packaging.



### 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 19 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 UNECE or SAE regulations. 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.

### LED 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.

### RFCCommSafe



RFCCommSafe products were developed in recognition that some radio communication equipment can be very sensitive in remote areas. RFCCommSafe products are designed to ensure no interference with any other electronic equipment.

### LED Active



LED lamps with active circuitry are designed for a single voltage and can only be connected to a 12V or 24V DC electrical system.

The circuitry is designed to ensure a uniform level of intensity and full light output over a small range above and below the design voltage of the lamp. The light performance will not be adversely affected by voltage drop over long cables and corroded connectors.

### LED Passive



LED lamps with passive circuitry are designed for a single voltage and can only be connected to a 12V or 24V DC electrical system.

The circuitry does not regulate the LED current so the light output increases proportionally with the supply voltage. The light performance will be adversely affected by voltage drop over long cables and corroded connectors.

### HCS (HELLA Compatibility Solution)



Vehicles operating on public roads may 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 further details on page 10).

**PA**

Grilamid® is a high-performance polyamide (PA) developed and manufactured in Switzerland, and is a revolutionary new transparent plastic with exceptional properties.

Grilamid® long-term resistance to UV degradation matches our impact enhanced acrylic used in most HELLA LED lamps. Grilamid® is characterised by very high impact and fatigue strength with resistance to chemicals and stress cracking.

HELLA New Zealand has benchmarked Grilamid® as the ideal lens material for lighting applications exposed to stone impact and very rough environments. Grilamid® is not a commodity material and was developed for demanding applications such as medical apparatus, sight glasses and high value shatterproof sunglasses. The application of Grilamid® for optical lenses on ultra durable transport lighting LED lamps is unique in the world.

For many years HELLA New Zealand has concentrated on the development, manufacture and export of ultra durable LED lamps. Locally manufactured lamps using this Swiss made material places these products again well ahead of the competition.

The exceptional properties of Grilamid® are exactly what is required in heavy duty commercial transport lighting applications, offering excellent transparency (similar to glass), high strength and impact resistance against stone damage, UV and chemical resistance.

Grilamid® is a registered trademark of EMS-CHEMIE AG.

**PMMA**

The subject of acrylic (PMMA) lenses versus polycarbonate (PC) is frequently raised by the industry.

For most commercial transport applications HELLA chooses to manufacture sealed LED lamps from a specially formulated high impact acrylic with enhanced chemical resistance. Our specially formulated high impact acrylic offers many advantages:

- Ultra long-term resistance against fading and UV damage, and enhanced chemical resistance, including all commonly used wash liquids, and more.

**Refurbish instead of Recycle**

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



Acrylic and Grilamid® lamps can be polished to look like new.

Both these materials can be refurbished to near new condition by polishing out fine scratches and road grime. As illustrated in the photograph a DuraLED with several years of active high mileage road use can be refurbished to pristine near new condition.

Due to the properties of polycarbonate, refurbishing by polishing is not a viable option.

**PC**

Lamps featuring polycarbonate lenses, are for use in very high impact situations and they have a high resistance to stone damage. However polycarbonate has a lower tolerance to certain chemicals and aggressive cleaning fluids.

This makes lamps made with PC lenses sensitive to chemical attack, some industry warranty statements even go as far as prohibiting liquid washing detergents.

In addition, polycarbonate lenses are susceptible to UV attack and they will fade and become brittle under long term exposure to high UV levels.

**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 the side.

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.

These lamps are clearly marked throughout the catalogue.

**GGVS/ADR Regulation**

Lamps with this symbol are approved for mounting on transport equipment which corresponds to the requirement of GGVS/ADR.

GGVS/ADR = Regulation for on-road transportation of hazardous goods.

**Enhanced Definition Technology (EDT)**

A stop lamp has to be instantly recognised as a warning signal. To further enhance recognition, an increase in the illuminated area (compared to the tail 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.

**Electromagnetic Compatibility (EMC)**

HELLA LED lamps are electronic devices. The electrical circuits contain components that have been optimised to suppress possible interference, both emission as well as susceptibility.

**Protection Against Damage Due to Voltage Spikes**

Lamps are protected against reverse polarity connection and voltage spikes.

# HELLA Compatibility Solution (HCS)

The trailer solution today for the trucks of tomorrow. Direction indicator lamp monitoring which is fully compliant with international standard ISO 13207-1.



Vehicles being driven on public roads may require the operation of the 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 intention of the driver. Failure to signal or failure to recognise a direction indicator represents a significant cause for road accidents.

In many countries, LED direction indicator lamps offering a reliable Fit and Forget solution, have become the retrofit item of choice for the cost conscious transport operator. LED lamps, with much lower power consumption and Multivolt features, are often a challenge for existing failure detection control electronics of modern trucks and buses. Transport fleets often feature a mixture of trailer units equipped with either bulb or LED based direction indicator lamps. Each of these trailer units ideally must be freely interchangeable with any of the truck units in the fleet, including those with 12V or 24V systems.

Some manufacturers recommend to fit additional resistive loads in parallel to the LED lamps to simulate the 21 watts consumed by a bulb lamp. Such pure resistive load solutions can be problematic for the following reasons:

1. They mask the possible failure of the actual LED indicator lamp itself.
2. In many cases such pure resistive solutions do not function since they only provide a linear time/current response which is significantly different to the time/current response of a bulb filament when it heats up.
3. They consume a lot of energy and thus eliminate the desired lower power advantage of an LED lamp.

Safe conversion to LED direction indicator lamps is now possible with the patented HCS HELLA Compatibility Solution.

HELLA supplies electronic control and flasher units which make it possible to convert the indicator failure display for various vehicles. This is necessary if the vehicle manufacturer does not guarantee indicator bulb failure control via the vehicle wiring system. The solution has been patented by HELLA. Currently, there is one control and four different LED/bulb compatible flasher units available.

The innovative patented design makes the reliable, problem free conversion to HELLA LED based indicator lamps possible.

LED lamps listed in this catalogue marked with the HCS symbol feature the patented control technology HCS (HELLA Compatibility Solution) which allows seamless communication with the HELLA HCS control flasher units.



2BA 959 011-301



2SD 959 050-401



2BE 959 932-151



2BA 980 607-001



2BA 959 822-601



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.



4DN 009 492-101\* HCS Flasher Unit



5DS 009 602-001\* Control Unit 24V



5DS 009 552-011\* HCS Control Units 24V

1. **Vehicles with Flasher Unit**

HCS LED/Bulb compatible indicator flasher units for industry standard configurations.

For all other vehicles, where an independent HELLA flasher unit can be fitted, a number of HCS flasher units are offered, covering most transport industry common lamp combinations.

2. **Vehicles that use the cold scan for indicator failure control.**

Description of fault indication: Is a faulty lamp indicated when; a) the ignition is switched on, b) directly when the fault occurs, or c) when the bulb is screwed out without the indicator being triggered?

Solution: Simulation device for cold scan P/N: 5DS 009 602-001\*.

3. **Vehicles without flasher unit that carry out current measurement for the failure check.**

HCS LED indicator outage monitoring unit with 21 watt bulb current simulation.

Part number 5DS 009 552-011\* is the more costly solution to be used for trucks with factory supplied fully integrated indicator control electronics.

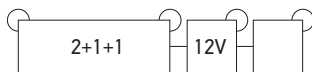
In combination with trucks/trailers fitted with HELLA HCS LED indicator lamps, the control unit simulates the time/ current response of an incandescent bulb.

The HELLA HCS LED indicator lamp contains self diagnostics, when the lamp detects a fault this is communicated to the control unit which subsequently suppresses the signal to the truck control electronics.

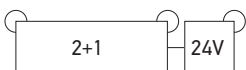
Description of fault indication: A fault is determined during the flashing operation (e.g double flashing frequency).

- For 24V trailers P/N: 5DS 009 552-011\*
- No separate power supply necessary
- Protective category IP 6K9K protection against dust and high pressure/steam jet cleaning.

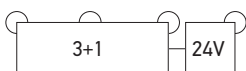
**HCS flasher unit 12V 2+1+1**  
P/N: 4DN 009 492-101\*



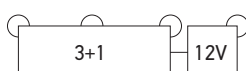
**HCS flasher unit 24V 2+1**  
P/N: 4DM 009 492-001\*



**HCS flasher unit 24V 3+1**  
P/N: 4DW 009 492-011\*



**HCS flasher unit 12V 3+1**  
P/N: 4DW 009 492-111\*

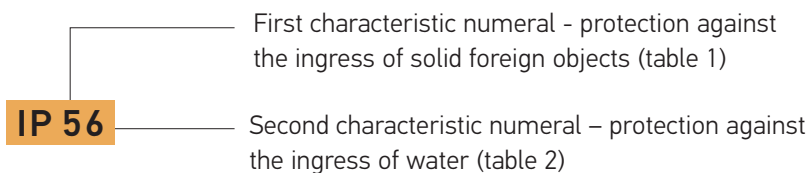


\* These products are not supplied by HELLA-New Zealand Limited. For further information on these products please contact HELLA KGaA Hueck & Co.

# Enclosure Protection

## International Protection Rating (IP)

### Example:



**TABLE 1**

**Protection against the ingress of solid foreign objects (including dust)**

X	Not tested
0	Not protected
1	Solid foreign objects $\varnothing \geq 50$ mm
2	Solid foreign objects $\varnothing \geq 12.5$ mm
3	Solid foreign objects $\varnothing \geq 2.5$ mm
4	Solid foreign objects $\varnothing \geq 1.0$ mm
5 and 5K	Dust protected
6 and 6K	Dust tight

**TABLE 2**

**Protection against the ingress of water**

X	Not tested
0	Not protected
1	Water vertical dripping
2	Water dripping (inclined 15 degrees)
3	Water spraying
4	Water splashing
4K	Water splashing with increased pressure
5	Water jets
6	Powerful water jets
6K	Powerful water jets at increased pressure
7	Temporary immersion
8	Continuous immersion
9K	High-pressure/steam jet cleaning

# Decoding ECE Symbols

Key to decoding the combinations of numbers and letters on marker and signal lamps.

The most frequent codes used in 37 countries which approve headlamps and combination rear lamps according to ECE regulations are as follows:

<b>E1</b>	→ Germany
<b>E2</b>	→ France
<b>E3</b>	→ Italy
<b>E4</b>	→ Netherlands
<b>E5</b>	→ Sweden
<b>E6</b>	→ Belgium
<b>E7</b>	→ Hungary
<b>E8</b>	→ Czech Republic
<b>E9</b>	→ Spain
<b>E10</b>	→ Serbia and Montenegro
<b>E11</b>	→ United Kingdom
<b>E12</b>	→ Austria
<b>E13</b>	→ Luxembourg
<b>E14</b>	→ Switzerland
<b>E24</b>	→ Ireland

Combination rear lamp versions:

<b>A</b>	→ Marker lamp
<b>AR</b>	→ Reversing lamp
<b>F</b>	→ Rear fog lamp
<b>IA</b>	→ Reflex reflector
<b>R</b>	→ Tail-lamp
<b>S1</b>	→ Stop lamp
<b>1, 1a, 1b:</b>	→ Front flasher lamp (various technical versions)
<b>2a</b>	→ Rear flasher lamp
<b>5</b>	→ Repeater flasher lamp (for vehicles up to 6 metres long)
<b>6</b>	→ Repeater flasher lamp (for vehicles longer than 6 metres)
<b>SM1</b>	→ Side marker lamps (for all vehicles)
<b>SM2</b>	→ Side marker lamps (for vehicles with length up to 6 metres)
<b>RL</b>	→ Daytime running lamps

## Symbol and Marking Location on Marker and Signal Lamp

### R-S1

Lamp Version:  
R = Tail lamp  
S1 = Stop lamp

### 02

Lamp Version: fulfils regulation amendment 02

### E4

Type of approval and location  
E = ECE regulations  
4 = Netherlands

### 11391

Type test number to ECE regulation







# Contents

## ECE Approved LED Lamps

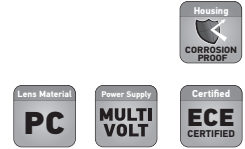
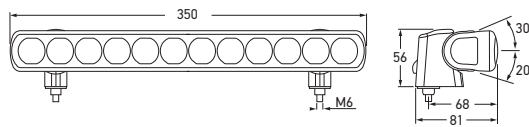
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**LED Light Bar 350**  
- Plastic Bracket

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

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20 with 1 lux at approx. 320 metres) and Pencil Beam (Ref 30 with 1 lux at approx. 380 metres).

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



<b>Part Number</b>	<b>1FJ 958 040-001 (High Beam)</b>	<b>REF. 20</b>
	<b>1FJ 958 040-051 (Pencil Beam)</b>	<b>REF. 30</b>
<b>Mounting</b>	Upright or pendant.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	25W	
<b>Maximum Luminous Intensity</b>	1FJ 958 040-001: 96,000 candela 1FJ 958 040-051: 145,000 candela	
<b>Protection</b>	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
<b>Cable Length</b>	Pre-wired with 2.5m of tinned multi-core cable.	
<b>Approval Markings</b>	(E4) 10R 04-2909 1FJ 958 040-001: (E24) 0008 1FJ 958 040-051: (E24) 0009	
<b>Contents</b>	1 x LED Light Bar 350	2 x Plastic mounting brackets 1 x Instruction booklet



Single plastic mounting bracket - Disassembled view

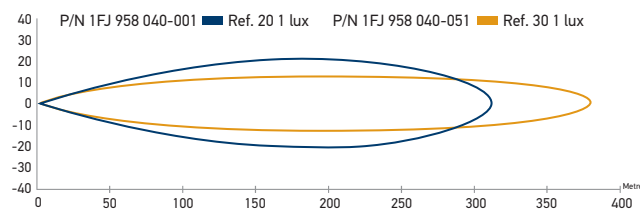


Mounting brackets allow rotation of driving light.

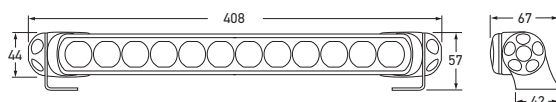
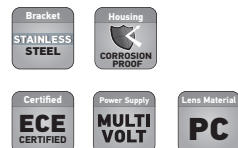


Mounting brackets can be positioned to suit most vehicle installations.

**Beam Pattern - Recorded with one lamp. Distance in metres.**



ECE APPROVED LED LAMPS



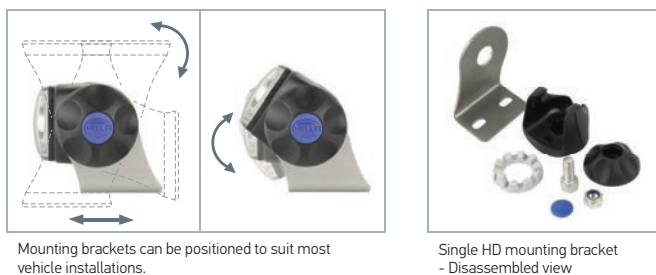
Part Number	1FJ 958 040-072 (High Beam)	REF. 20
	1FJ 958 040-082 (Pencil Beam)	REF. 30
Mounting	Upright or pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	25W	
Maximum Luminous Intensity	1FJ 958 040-072: 96,000 candela 1FJ 958 040-082: 145,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Approval Markings	E4 10R 04-2909	
	1FJ 958 040-072: E24 0008	
	1FJ 958 040-082: E24 0009	
Contents	1 x LED Light Bar 350	2 x HD mounting brackets 1 x Instruction booklet

LED Light Bar 350 - HD Bracket

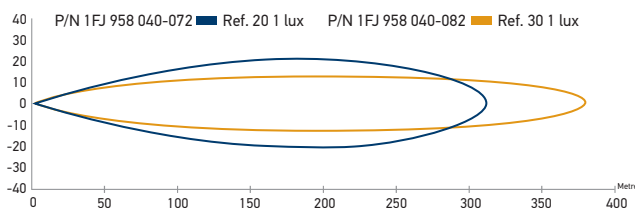
This innovative, light weight HELLA LED Light Bar is the first such lamp with a body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LED's and a maximum luminous intensity of 145,000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

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20 with 1 lux at approx. 320 metres) and Pencil Beam (Ref 30 with 1 lux at approx. 380 metres).

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



Beam Pattern - Recorded with one lamp. Distance in metres.



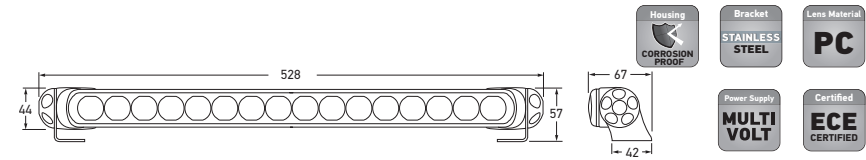
ECE APPROVED LED LAMPS

**LED Light Bar 470  
- HD Bracket**

The longer and brighter LED Light Bar 470 features all the outstanding properties of the LED Light Bar 350 but with an additional four high performance automotive LED's and a maximum luminous intensity of 166,000 candela at a power consumption of only 35 watts.

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 25 with 1 lux at approx. 330 metres) and Pencil Beam (Ref 37.5 with 1 lux at approx. 410 metres). With only 950g weight the Light Bar is particularly popular for roof mount applications on ATV's and Off-road vehicles. The non corrosive, thermally conductive housing is highly resistant to degradation and due to its slim profile, this streamline Light Bar is ideal for applications where aerodynamic styling are a valued attribute. The flexible, adjustable mounting system ensures easy installation.

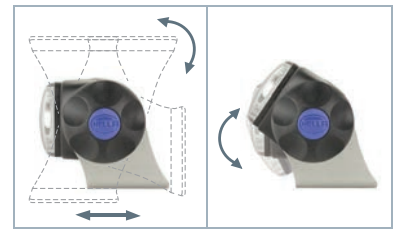
The Light Bar 470 features a Multivolt circuit for optimum brightness at a wide range of input voltages from 9 to 33 volts and is fully road legal with ECE approval.



<b>Part Number</b>	<b>1FJ 958 130-111 (High Beam)</b>	<b>REF. 25</b>
	<b>1FJ 958 130-011 (Pencil Beam)</b>	<b>REF. 37.5</b>
<b>Mounting</b>	Upright or pendant.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	35W	
<b>Maximum Luminous Intensity</b>	1FJ 958 130-111: 113,000 candela 1FJ 958 130-011: 166,000 candela	
<b>Protection</b>	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
<b>Cable Length</b>	Pre-wired with 2.5m of tinned multi-core cable.	
<b>Approval Markings</b>	E24 10R 05-1947 1FJ 958 130-111: E24 0012 1FJ 958 130-011: E24 0013	
<b>Contents</b>	1 x LED Light Bar 470    2 x HD mounting brackets    1 x Instruction booklet	

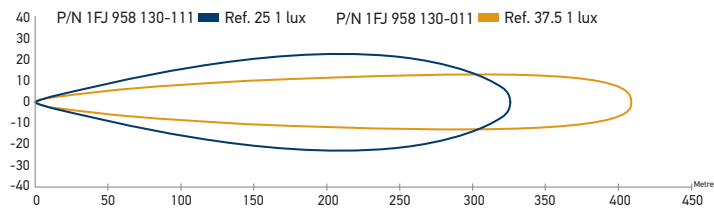


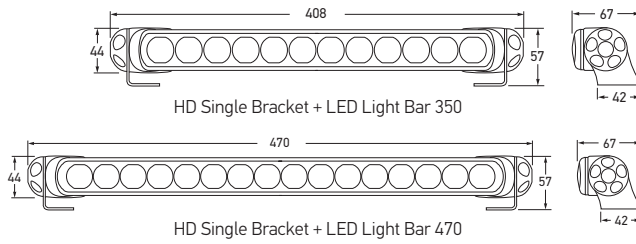
Single HD mounting bracket - Disassembled view



Mounting brackets can be positioned to suit most vehicle installations.

**Beam Pattern - Recorded with one lamp. Distance in metres.**





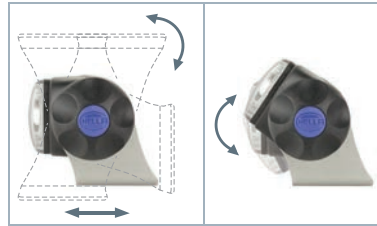
**LED Light Bar  
- HD Single Bracket Kit**

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

<b>Part Number</b>	<b>8HG 958 139-841</b>	
<b>Kit Includes</b>	2 x Stainless Steel Mounting Feet 2 x Stainless Steel M8 x 20mm Cap Screws 2 x Stainless Steel M8 Nylon Lock Nuts 2 x End Adaptors	2 x Friction Washers 2 x End Clamps 2 x Screw Caps



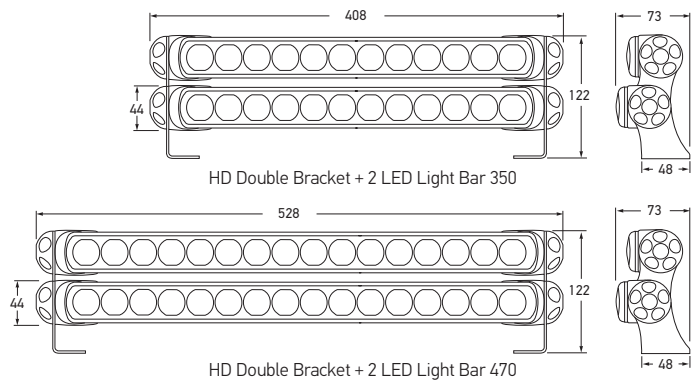
HD Single Bracket Kit + LED Light Bar 350



Mounting brackets can be positioned to suit most vehicle installations.

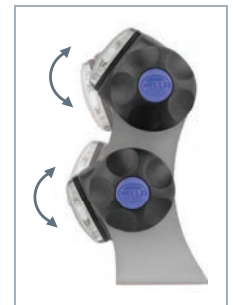
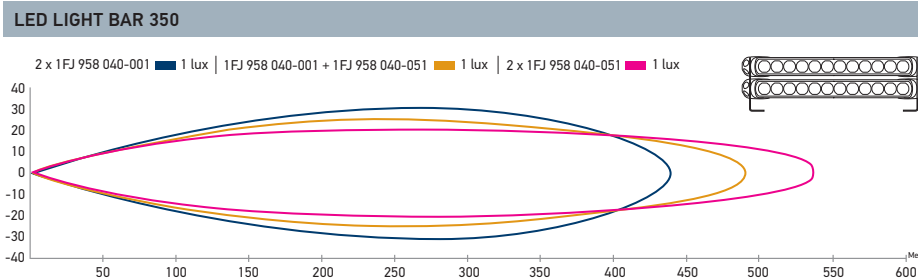


**LED Light Bar  
- HD Double Bracket Kit**

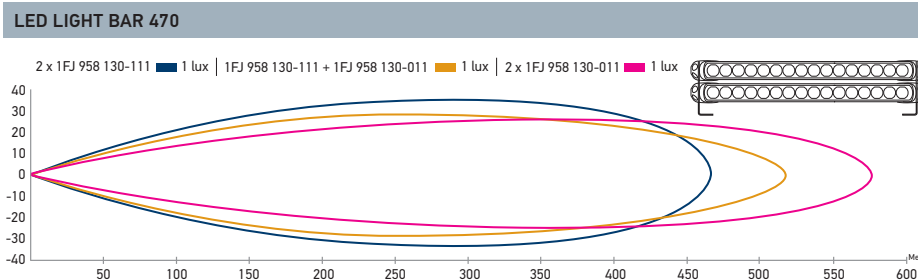


<b>Part Number</b>	<b>8HG 958 139-851</b>	
<b>Kit Includes</b>	2 x Stainless Steel Double Mounting Feet 4 x Stainless Steel M8 x 20mm Cap Screws 4 x Stainless Steel M8 Nylon Lock Nuts 4 x End Adaptors	4 x Friction Washers 4 x End Clamps 4 x Screw Caps

**Beam Patterns - Recorded with two lamps. Distance in metres.**



Mounting brackets allow rotation of Light Bar.



HD Double Bracket Kit + 2 x LED Light Bar 350

### 83mm Round LED Front Direction Indicator/Front Position/Daytime Running Lamp

ECE certified LED front direction indicator/ front position/daytime running lamp with clear lens. Specifically designed for commercial transport applications. Equipped with high efficacy white LED for low power consumption and acrylic lens for superior UV and impact resistance. Direction indicator optic appears clear until illuminated. Each of the lamp versions has different in-built operation logic that are defined to suppress the DRL during the indicator flasher cycle and suit most vehicle installations with or without an additional DRL feed.



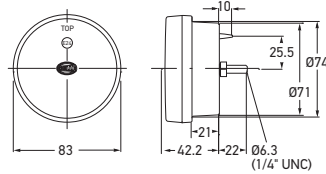
#### 83MM LED LAMP FUNCTIONS



Daytime running lamp

Front position

Direction indicator



Part Number	2BE 980 691-001		2BE 980 691-101		12 VOLT
	2BE 980 690-001	2BE 980 690-101	2BE 980 690-201		24 VOLT
Mounting	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.				
Power Consumption		12V	24V		
	Front indicator:	3W	4W		
	Daytime running lamp:	4W	4W		
	Front position:	1W	1W		
Protection	Reverse polarity, spike and over voltage 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.				
Approval Markings	E24 5854		E4 10R 04-2907		
Refer to table below for operation logic of each version.					

#### LAMP OPERATION LOGIC

Lamp Input			2BE 980 691-001 2BE 980 690-001			2BE 980 691-101 2BE 980 690-101			2BE 980 690-201		
DRL	FP	DI	DRL	FP	DI	DRL	FP	DI	DRL	FP	DI
Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed	Dimmed

Additional in-built operation logic options are available upon request.

**Low Beam**

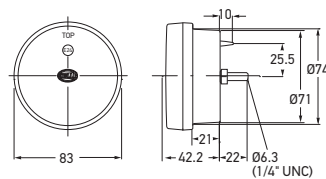
Designed to light the road at night without causing glare to other road users.

**HELLA LED Daytime Running Lamps**

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

### 83mm Round LED Front Direction Indicator/Front Position Lamp

ECE certified LED front direction indicator/ front position lamp with clear lens. Specifically designed for commercial transport applications. Equipped with LEDs for low power consumption and acrylic lens for superior UV and impact resistance. Direction indicator optic appears clear until illuminated.



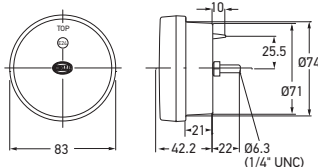
Part Number	2BE 980 691-301		2BE 980 691-307 (Pack of 10)		12 VOLT
	2BE 980 690-301	2BE 980 690-301	2BE 980 690-307 (Pack of 10)		24 VOLT
Mounting	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.				
Power Consumption		12V	24V		
	Front indicator:	3W	4W		
	Front position:	1W	1W		
Protection	Reverse polarity, spike and over voltage 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.				
Approval Markings	E24 5854		E4 10R 04-2907		

#### 83MM LED LAMP FUNCTIONS



Front position

Direction indicator



### 83mm Round LED Daytime Running Lamp

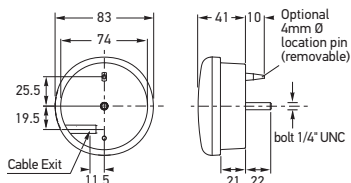
ECE certified LED DRL. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a DRL.



Part Number	2PT 980 691-601	12 VOLT
	2PT 980 690-601	24 VOLT
Mounting	Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Power Consumption	4W	
Protection	Reverse polarity, spike and over voltage 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.	
Approval Markings	E24 5854      E4 10R 04-2907	



Daytime Running Lamp

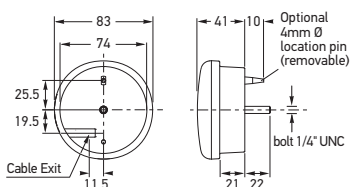
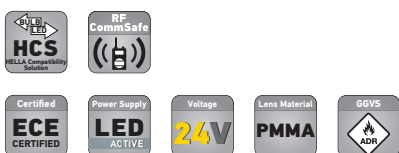


### 83mm Round LED Stop/Rear Position/Rear Direction Indicator Lamp

83mm diameter round LED lamp with single bolt mount.



Part Number	2SD 959 010-201	2SD 959 010-207 (Pack of 10)
	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 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.	
Approval Markings	E9 1538      E4 10R 04-2741	



### 83mm Round LED Stop/Rear Position/Rear Direction Indicator Lamp - 24 Volt

83mm diameter round LED lamp featuring HCS technology with a single bolt mount.



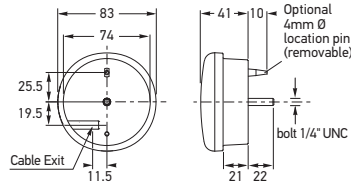
Part Number	2SD 959 010-401	2SD 959 010-407 (Pack of 10)
	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
Voltage	24V DC	
Power Consumption	Stop: 2W Rear position: <1W Rear indicator: 2W	
Protection	Same as per P/N 2SD 959 010-2xx	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Approval Markings	E9 1538      E4 10R 04-2741      ISO 13207-1	

Lamp only compatible with 24V DC HCS units

ECE APPROVED LED LAMPS

### 83mm Round LED Stop/Rear Position Lamp

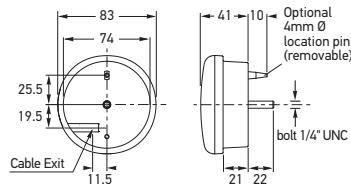
83mm diameter round LED lamp with single bolt mount, featuring Enhanced Definition Technology (EDT).



<b>Part Number</b>	<b>2SB 959 010-001</b>	<b>2SB 959 010-007 (Pack of 10)</b>
<b>Mounting</b>	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	Stop: 3W Rear position: 1W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E4 11391      E4 10R 04-2741	

### 83mm Round LED Rear Direction Indicator Lamp

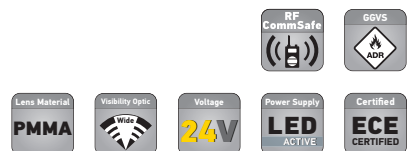
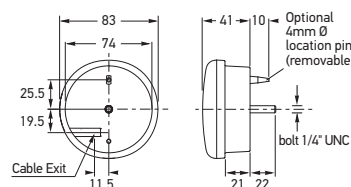
83mm diameter round LED lamp with single bolt mount.



<b>Part Number</b>	<b>2BA 959 011-001</b>	<b>2BA 959 011-007 (Pack of 10)</b>
<b>Mounting</b>	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	2W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E4 11391      E4 10R 04-2741	

### 83mm Round LED Stop/Rear Position Lamp - 24 Volt

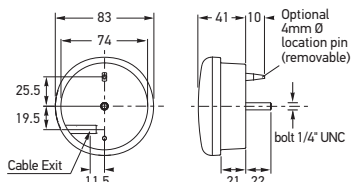
83mm diameter round LED lamp featuring 12 LEDs and a single bolt mount for trucks, buses, caravans and trailers.



<b>Part Number</b>	<b>2SB 959 010-301</b>	<b>2SB 959 010-307 (Pack of 10)</b>
<b>Mounting</b>	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
<b>Voltage</b>	24V DC	
<b>Power Consumption</b>	Stop: 3W Rear position: 1W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E4 12373      E4 10R 04-2741	



ECE APPROVED LED LAMPS



**83mm Round LED Rear Direction Indicator Lamp - 24 Volt**

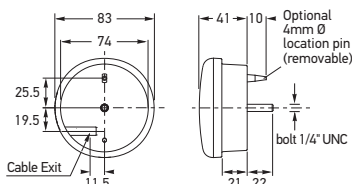
83mm diameter round LED lamp featuring 12 LEDs, HCS technology and a single bolt mount for trucks, buses, caravans and trailers.



ECE APPROVED LED LAMPS

<b>Part Number</b>	<b>2BA 959 011-301</b>	<b>2BA 959 011-307 (Pack of 10)</b>
<b>Mounting</b>	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
<b>Voltage</b>	24V DC	
<b>Power Consumption</b>	3W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E4 12373	E4 10R 04-2741 ISO 13207-1

Lamp only compatible with 24V DC HCS units

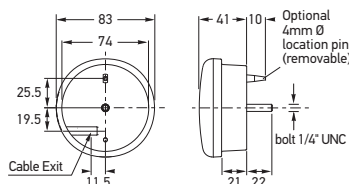


**83mm Round LED Reversing Lamp**

83mm diameter round LED lamp with single bolt mount.



<b>Part Number</b>	<b>2ZR 959 010-501</b>	<b>2ZR 959 010-507 (Pack of 10)</b>
<b>Mounting</b>	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	4W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E4 11391	E4 10R 04-2741



**83mm Round LED Rear Fog Lamp**

83mm diameter round LED lamp with single bolt mount. Optic appears clear until illuminated.

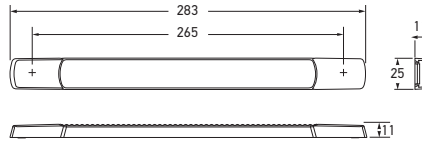


<b>Part Number</b>	<b>2NE 959 011-501</b>	<b>2NE 959 011-507 (Pack of 10)</b>
<b>Mounting</b>	Single bolt 1/4" Stainless UNC thread. Nut and washer supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	3W	
<b>Protection</b>	Reverse 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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E4 11391	E4 10R 04-2741

Fog lamp lens is clear when not active.

**LED Front Direction Indicator Lamp - Surface Mount**

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



Part Number	HORIZONTAL MOUNT	VERTICAL MOUNT	
	2BA 980 888-311	2BA 980 888-511	2BA 980 888-611
2BA 980 888-411	2BA 980 888-411	2BA 980 888-611	24 VOLT

Mounting Suitable for horizontal or vertical mounting with tolerance. See diagrams.

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.

Approval Markings Horizontal E24 5869 Vertical E24 5890 E4 10R 04-2910



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

**LED Rear Direction Indicator Lamp - Surface Mount**

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



Part Number	2BA 980 888-011	12 VOLT
	2BA 980 888-211	24 VOLT

Mounting Suitable for horizontal and vertical mounting with tolerance. See diagram.

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.

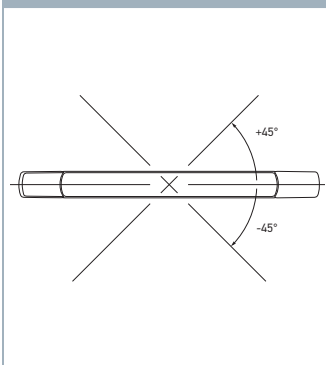
Approval Markings E24 5891 E4 10R 04-2910



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

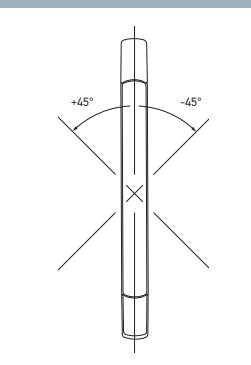
**MOUNTING DIAGRAMS**

P/N 2BA 980 888-311/...-411



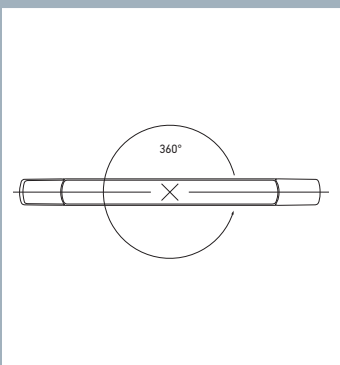
Horizontal mount: +/- 45° rotation around lamp (and vehicle) axis

P/N 2BA 980 888-511/...-611

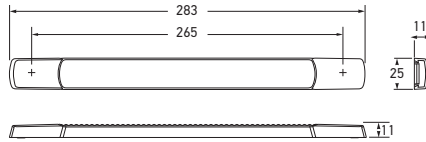
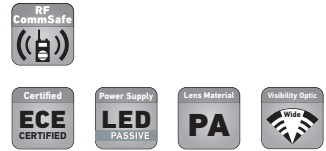


Vertical mount: +/- 45° rotation around lamp (and vehicle) axis

P/N 2BA 980 888-011/...-211

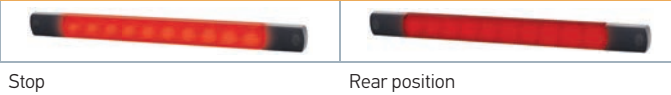


Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis



Part Number	2SB 980 887-011	12 VOLT
	2SB 980 887-211	24 VOLT
Mounting	Suitable for horizontal and vertical mounting with tolerance. See diagram.	
Power Consumption	Stop: 3W	Rear Position: <0.5W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.3m cable.	
Approval Markings	E24 5891 E4 10R 04-2913	

STOP / REAR POSITION LAMP FUNCTIONS



LED Stop/Rear Position Lamp - Surface Mount

Surface mount LED stop/rear position lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. 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.



Part Number	2DA 980 887-311	12 VOLT
	2DA 980 887-411	24 VOLT
Mounting	Suitable for horizontal and vertical mounting with tolerance. See diagrams.	
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.	
Approval Markings	E24 0087 E4 10R 04-2910	

LED Auxiliary Stop Lamp - Surface Mount

Surface mount LED auxiliary stop lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

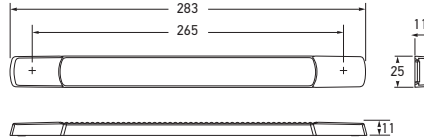


Ultra slim height of only 11mm. Lamp shown active.

MOUNTING DIAGRAMS		
P/N 2SB 980 887-011/...-211	P/N 2DA 980 887-311/...-411	P/N 2DA 980 887-311/...-411
Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis	Horizontal mount: +/- 15° tilt (up/down)	Vertical mount: +/- 12° tilt (up/down)

**LED Rear Fog Lamp  
- Surface Mount**

Surface mount LED rear fog lamp. 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.

<b>Part Number</b>	<b>2NE 980 889-501</b>	<b>12 VOLT</b>
	<b>2NE 980 889-601</b>	<b>24 VOLT</b>
<b>Mounting</b>	Suitable for horizontal and vertical mounting.	
<b>Power Consumption</b>	3W	
<b>Protection</b>	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E24 0010      E4 10R 04-2910	

**LED Reversing Lamp  
- Surface Mount**

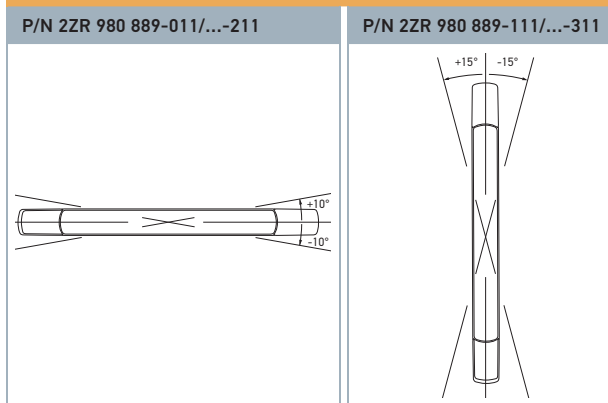
Surface mount LED reversing lamp. Featuring a low profile, ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



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

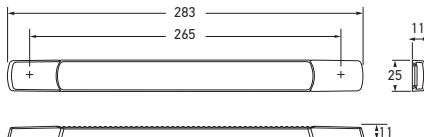
	HORIZONTAL MOUNT	VERTICAL MOUNT	
<b>Part Number</b>	<b>2ZR 980 889-011</b>	<b>2ZR 980 889-111</b>	<b>12 VOLT</b>
	<b>2ZR 980 889-211</b>	<b>2ZR 980 889-311</b>	<b>24 VOLT</b>
<b>Mounting</b>	Suitable for horizontal or vertical mounting with tolerance. See diagrams.		
<b>Power Consumption</b>	3W		
<b>Protection</b>	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.		
<b>Approval Markings</b>	Horizontal E24 0027      Vertical E24 0028		
Reversing lamps are not designed for continuous operation.			

**MOUNTING DIAGRAMS**



Horizontal mount: +/- 10° rotation around lamp (and vehicle) axis

Vertical mount: +/- 15° rotation around lamp (and vehicle) axis



Part Number	LAMP MODULE	KIT	
		2PT 980 880-002	2PT 980 880-811
	2PT 980 880-102	2PT 980 880-861	24 VOLT
Mounting	Suitable for horizontal mounting only.		
Power Consumption	Daytime running lamp: 3W Front position: <0.5W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning).		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Spare Parts	5DF 980 816-001 5DF 980 816-501	LED DRL/PO Control Unit (12 Volt) LED DRL/PO Control Unit (24 Volt)	
Approval Markings	E24 5869		

**LED Daytime Running Lamp - Surface Mount**

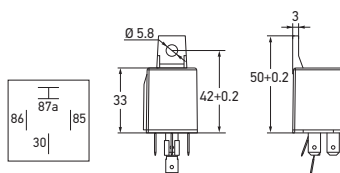
ECE certified LED Daytime Running Lamp with clear Grilamid® lens. Complete with mounting screws and screw caps. Kit contains 2 LED lamps and a changeover relay.



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



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



**LED DRL/PO Control Unit**

A control unit that dims the light output of LED daytime running lamps to front position/park function level.



Part Number	5DF 980 816-001	12 VOLT
	5DF 980 816-501	24 VOLT
Requirement	One unit is required per pair of LED daytime running lamps.	

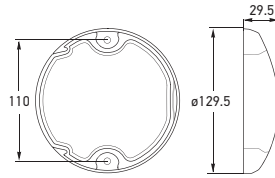
**RECOMMENDED INSTALLATION DIAGRAM FOR WIRING**

**WIRING SPECIFICATIONS**

Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	LED daytime running lamps (+)

### EuroLED Stop/Rear Position Lamp

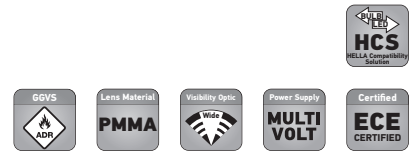
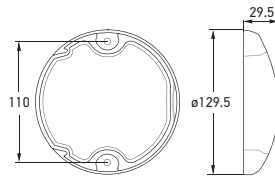
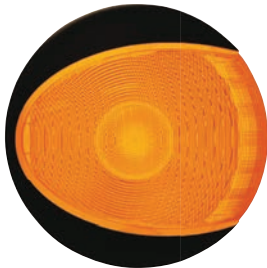
Low profile round LED stop/rear position lamp with single LED and red lens. The use of precision optics enable a single high intensity LED to be used for the first time in a commercial vehicle lamp, resulting in low power consumption.



Part Number	2SB 959 821-601	BLACK COVER
	2SB 959 821-611	WHITE COVER
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.	
Approval Markings	E4 10208      E4 10R 04-2894	

### EuroLED Rear Direction Indicator Lamp

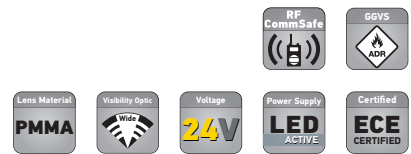
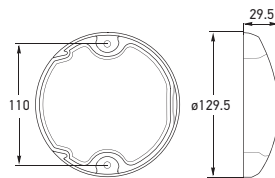
Low profile round LED rear direction indicator lamp with single LED and amber lens.



Part Number	2BA 959 822-601	BLACK COVER
	2BA 959 822-611	WHITE COVER
Power Consumption	2.5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Approval Markings	E4 10208      E4 10R 04-2742      ISO 13207-1	
Other specifications as per P/N 2SB 959 821-6xx. Lamp compatible with 12V DC and 24V DC HCS units.		

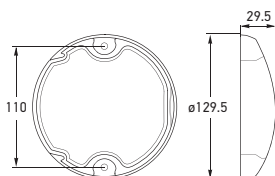
### EuroLED Stop/Rear Position Lamp - 24 Volt

Low profile LED stop/rear position lamp featuring 24 LEDs, Enhanced Definition Technology (EDT) and Ultra Wide Visibility Optic for significantly improved side visibility.



Part Number	2SB 959 020-601	BLACK COVER
	2SB 959 020-611	WHITE COVER
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	24V DC	
Power Consumption	Stop: 5W Rear position: 1W	
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.	
Approval Markings	E4 10208      E4 10R 04-2896	

ECE APPROVED LED LAMPS



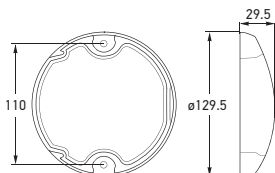
**EuroLED Rear Direction Indicator Lamp - 24 Volt**

Low profile LED rear direction indicator lamp featuring 24 LEDs and Ultra Wide Visibility Optic for significantly improved side visibility.

Part Number	2BA 959 021-601	BLACK COVER
	2BA 959 021-611	WHITE COVER
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	24V DC	
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.	
Approval Markings	E4 10208      E4 10R 04-2896	



ECE APPROVED LED LAMPS

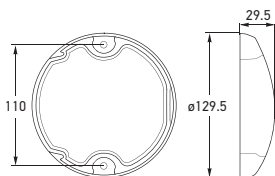


**EuroLED Rear Fog Lamp**

Low profile round LED rear fog lamp with single LED and clear lens. Optic appears clear until illuminated.

Part Number	2NE 959 821-201	BLACK COVER
	2NE 959 821-211	WHITE COVER
Mounting	Two hole surface mount with mounting bushes supplied.	
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 2.5m of sheathed multi-core cable.	
Approval Markings	E4 10208      E4 10R 04-2894	

Fog lamp lens is clear when not active.



**EuroLED Reversing Lamp**

Low profile round LED reversing lamp with single LED and clear lens.

Part Number	2ZR 959 820-601	BLACK COVER
	2ZR 959 820-611	WHITE COVER
Power Consumption	2.5W	
Approval Markings	E4 10208      E4 10R 04-2894	

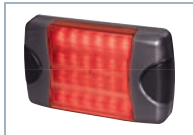
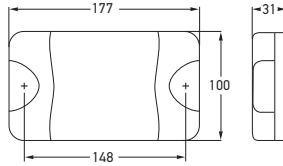
Other specifications as per P/N 2NE 959 821-2xx.



ECE APPROVED LED LAMPS

### DuraLED Stop/Rear Position Lamp

LED stop/rear position lamp featuring 24 LEDs and Enhanced Definition Technology (EDT) for trucks, buses, caravans and trailers.

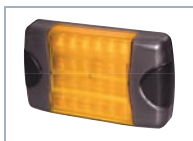
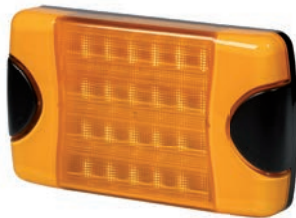
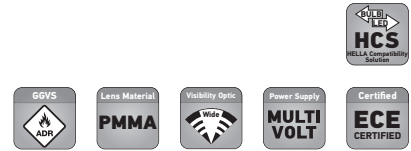
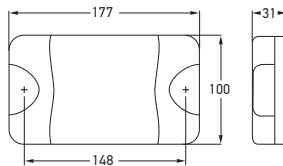


2SB 980 606-201

Part Number	RED LENS	CLEAR LENS	
	2SB 980 606-001	2SB 980 606-201	
2SB 980 606-501	2SB 980 606-701	VERTICAL MOUNT	
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: 6W	Rear position: 2.5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Approval Markings	E24 5850	E4 10R 04-2891	

### DuraLED Rear Direction Indicator Lamp

LED rear direction indicator lamp featuring 24 LEDs and HCS technology for trucks, buses, caravans and trailers.

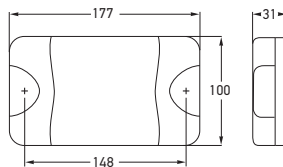


2BA 980 607-201

Part Number	AMBER LENS	CLEAR LENS	
	2BA 980 607-001	2BA 980 607-201	
2BA 980 607-501	2BA 980 607-701	VERTICAL MOUNT	
Power Consumption	4W		
Approval Markings	E24 5850	E4 10R 04-2892	ISO 13207-1
Other specifications as per P/N 2SB 980 606-xxx. Lamp compatible with 12V DC and 24V DC HCS units.			

### DuraLED Reversing Lamp

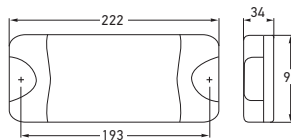
LED reversing lamp featuring 24 LEDs for trucks, buses, caravans and trailers.



2ZR 980 605-201

Part Number	WHITE ENDS	CHARCOAL ENDS	
	2ZR 980 605-001	2ZR 980 605-201	
2ZR 980 605-501	2ZR 980 605-701	VERTICAL MOUNT	
Power Consumption	4W		
Approval Markings	E24 5850	E4 10R 04-2891	
Other specifications as per P/N 2SB 980 606-xxx. Reversing lamp is not designed for continuous use.			





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

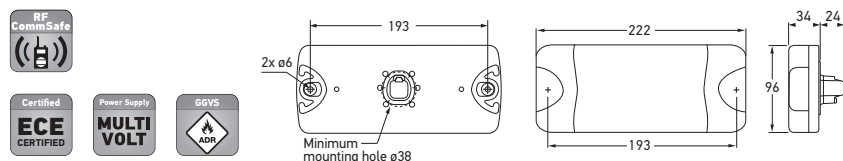
LED stop, rear position, rear direction indicator and reversing lamp. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Ideal for small trucks and utes.



Part Number	2SK 980 603-503	HIGH IMPACT ACRYLIC LENS
	2SK 980 603-552	GRILAMID® LENS
Mounting	Suitable for horizontal mounting only. Two hole surface mount with mounting bushes supplied.	
Voltage	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 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.	
Approval Markings	E24 5870      E24 10R 04-0958	

**COMBINATION LAMP FUNCTIONS**

Stop      Rear position      Rear direction indicator      Reverse



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

LED stop, rear position, rear direction indicator and reversing lamp. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Ideal for small trucks and utes.



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

Part Number	2SK 980 615-001	HIGH IMPACT ACRYLIC LENS
	2SK 980 615-052	GRILAMID® LENS
Mounting	Suitable for horizontal mounting only. Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 4W	Reverse: 3W Night: 1W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high pressure water jets) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Approval Markings	E24 5870      E24 10R 04-0958	

**COMBINATION LAMP FUNCTIONS**

Stop      Rear position      Rear direction indicator      Reverse



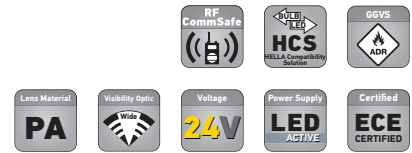
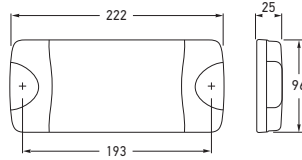
ECE APPROVED LED LAMPS

### DuraLED Combi-S Stop/Rear Position/Rear Direction Indicator/Reversing Lamp - 24 Volt

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



Ultra slim height of only 25mm.



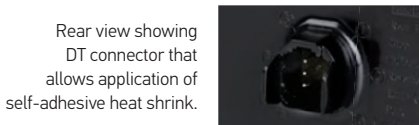
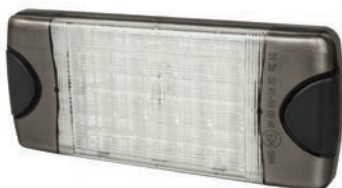
<b>Part Number</b>	<b>2SK 980 613-501</b>		
<b>Mounting</b>	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
<b>Voltage</b>	24V DC		
<b>Power Consumption</b>	Stop: Rear position:	3W 1W	Rear direction indicator: Reverse: 3W 3W
<b>Protection</b>	Reverse polarity 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)		
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.		
<b>Approval Markings</b>	E24 5894	E4 10R 04-2912	ISO 13207-1
Lamp only compatible with 24V DC HCS units.			

#### COMBI-S LAMP FUNCTIONS

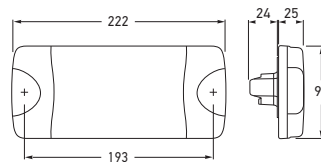


### DuraLED Combi-S Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with DT Connector and Night Light - 24 Volt

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



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

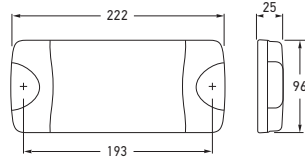


<b>Part Number</b>	<b>2SK 980 602-501</b>		
<b>Mounting</b>	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
<b>Voltage</b>	24V DC		
<b>Power Consumption</b>	Stop: Rear position: Rear direction indicator:	3W 1W 3W	Reverse: Night: 3W 1W
<b>Protection</b>	Reverse 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)		
<b>Approval Markings</b>	E24 5894	E4 10R 04-2912	ISO 13207-1
Lamp only compatible with 24V DC HCS units.			

#### COMBI-S LAMP FUNCTIONS



ECE APPROVED LED LAMPS



<b>Part Number</b>	<b>2SD 980 613-211</b>		
<b>Mounting</b>	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.		
<b>Voltage</b>	Multivolt for optimum brightness in 12 and 24 volt systems.		
<b>Power Consumption</b>	Stop:	5W	
	Rear position:	1W	
	Rear direction indicator:	5W	
<b>Protection</b>	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)		
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.		
<b>Approval Markings</b>	E24 5883	E4 10R 04-2901	ISO 13207-1

Lamp only compatible with 24V DC HCS units.

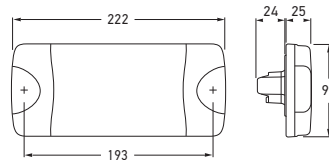


Ultra slim height of only 25mm.

ECE APPROVED LED LAMPS

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

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



<b>Part Number</b>	<b>2SD 980 602-211</b>		
<b>Mounting</b>	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.		
<b>Voltage</b>	Multivolt for optimum brightness in 12 and 24 volt systems.		
<b>Power Consumption</b>	Stop:	5W	
	Rear position:	1W	
	Rear direction indicator:	5W	
	Night:	1W	
<b>Protection</b>	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)		
<b>Approval Markings</b>	E24 5883	E4 10R 04-2901	ISO 13207-1

Lamp only compatible with 24V DC HCS units.



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

LED 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.

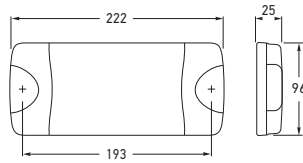
ECE APPROVED LED LAMPS

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

LED combination lamp with 34cm<sup>2</sup> 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.



Ultra slim height of only 25mm.



<b>Part Number</b>	<b>2VA 980 710-061</b>		
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 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.		
Approval Markings	E24 5882	E4 10R 04-2900	

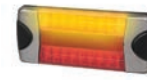
#### COMBI-R LAMP FUNCTIONS



Stop



Rear position



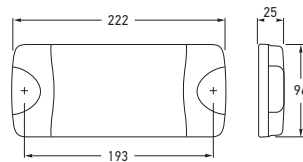
Rear direction indicator

### DuraLED Combi-R Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector - 24 Volt

LED combination lamp with 34cm<sup>2</sup> 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.



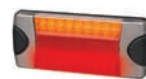
Ultra slim height of only 25mm.



<b>Part Number</b>	<b>2VA 980 710-301</b>		
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	24V DC		
Power Consumption	Stop:	4W	
	Rear position:	1W	
	Rear direction indicator:	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Approval Markings	E24 5882	E4 10R 04-2900	ISO 13207-1

Lamp only compatible with 24V DC HCS units.

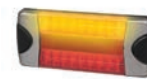
#### COMBI-R LAMP FUNCTIONS



Stop

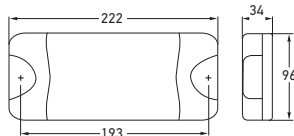


Rear position



Rear direction indicator

ECE APPROVED LED LAMPS

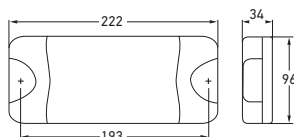


<b>Part Number</b>	<b>2SD 959 050-401</b>		
Mounting	Suitable for horizontal or vertical mounting. Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt for optimum brightness at input voltages from 8 to 28 volts.		
Power Consumption	Stop:	5W	
	Rear position:	1.5W	
	Rear indicator:	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Approval Markings	E4 10176	E4 10R 04-2734	ISO 13207-1

Lamp compatible with 12V DC and 24V DC HCS units.

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

LED combination lamp, featuring Ultra Wide Visibility Optics, HCS technology 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.



<b>Part Number</b>	<b>2SD 959 050-001</b>		
Mounting	Suitable for horizontal mounting only. Two hole surface mount with mounting bushes supplied.		
Power Consumption	Stop:	6W	
	Rear position:	1W	
	Rear indicator:	5W	
Cable Length	Pre-wired with 6m of sheathed multi-core cable.		
Approval Markings	E4 10176	E4 10R 04-2895	

Other specifications as per P/N 2SD 959 050-401.

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

LED combination lamp, featuring Ultra Wide Visibility Optics 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.



<b>Part Number</b>	<b>2VB 959 050-821</b>		
Kit contents:	Each trailer lamp pack contains: 2 x 2SD 959 050-401    Combination stop/rear position and rear direction indicator lamp 2 x 2KA 959 640-601    LED number plate lamp 2 x 8RA 002 020-001    Red retro reflector		
Approval Markings	2SD 959 050-401	E4 10176	E4 10R 04-2734
	2KA 959 640-601	E4 4068	E4 10R 04-2906
	8RA 002 020-001	E17 02346	

**DuraLED Trailer Lamp Pack**

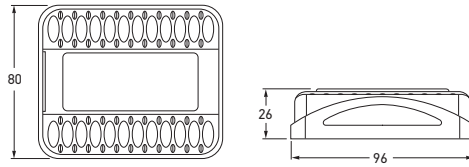
A Fit and Forget solution for trailers or caravans.



ECE APPROVED LED LAMPS

**Stop/Rear Position/Indicator Lamp**

LED stop, rear position and rear indicator lamp with 18cm<sup>2</sup> 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.



<b>Part Number</b>	<b>2VA 980 720-001</b>	<b>2VA 980 720-007 (Pack of 18)</b>
<b>Mounting</b>	Suitable for horizontal or vertical mounting. Surface mount, choice of mounting holes. Lamp clips into mounting base.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 12 to 24 volts.	
<b>Power Consumption</b>	Stop: 2W Rear position: 1W Rear direction indicator: 2W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 0.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	E24 5860      E4 10R 05-3262	

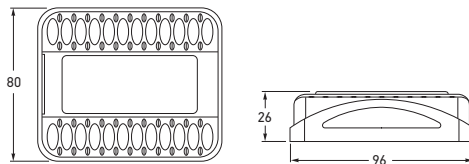
Other cable lengths available on request.

**TRAILER LAMP FUNCTIONS**



**Stop/Rear Position/Indicator Lamp with Number Plate Function**

As per P/N 2VA 980 720-00x with number plate function.

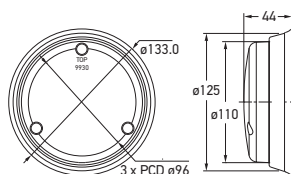


<b>Part Number</b>	<b>2VB 980 720-401</b>	<b>2VB 980 720-407 (Pack of 18)</b>
	<b>2VB 980 720-501</b>	<b>2VB 980 720-507 (Pack of 18)</b>
<b>Mounting</b>	Two lamps required for ECE compliance when mounted on either side of number plate. Contact HELLA for any other configuration.	
<b>Power Consumption</b>	Stop: 2W Rear position/number plate: 1W Rear direction indicator: 2W	

Other specifications as per P/N 2VA 980 720-0xx.

**TRAILER LAMP FUNCTIONS**





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

Low profile LED front direction indicator/ position lamp (category 1) specifically designed for commercial transport applications. Features high-intensity LEDs and high impact acrylic lens for superior light output and impact resistance.

Part Number	2BE 959 932-161	CHROME BASE
	2BE 959 932-151	BLACK BASE
	2BE 959 932-131	MODULE

Mounting	Mounting only with lens engraving "TOP" located correctly.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	Front direction: 3W Front position: <1W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 200mm of cable.
Approval Markings	E24 5851 E4 10R 04-2915

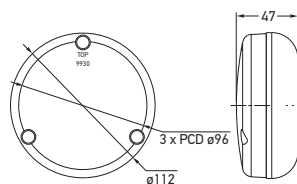
Chrome base image and diagram shown. Pendant mount is also available. Lamp compatible with 12V DC and 24V DC HCS units.



2BE 959 932-161



Lamp shown active



### 110mm Round LED Front Direction Indicator Lamp - Clear Lens

Low profile LED front direction indicator lamp (category 1) specifically designed for commercial transport applications.

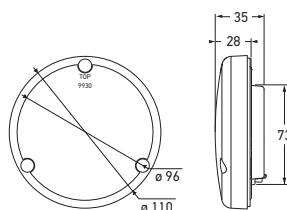
Part Number	2BA 959 932-081	CHROME BASE
	2BA 959 932-071	BLACK BASE
	2BA 959 932-051	MODULE

Power Consumption	3W
Approval Markings	E24 0023 E4 10R 04-2915 ISO 13207-1

Other specifications as per P/N 2BE 959 932-1xx. Black base image and diagram shown. Pendant mount also available. Lamp compatible with 12V DC and 24V DC HCS units.



2BA 959 932-071



### 110mm Round LED Front Direction Indicator Lamp - Amber Lens

Low profile LED front direction indicator lamp (category 1) specifically designed for commercial transport applications.

Part Number	2BA 959 932-041	CHROME BASE
	2BA 959 932-031	BLACK BASE
	2BA 959 932-011	MODULE

Power Consumption	3W
Approval Markings	E24 0023 E4 10R 04-2915 ISO 13207-1

Other specifications as per P/N 2BE 959 932-1xx. Module image and diagram shown. Pendant mount is also available. Lamp compatible with 12V DC and 24V DC HCS units.



2BA 959 932-011

ECE APPROVED LED LAMPS

### 110mm Round LED Rear Direction Indicator Lamp - Clear Lens

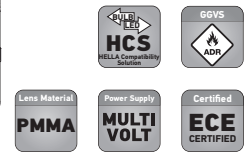
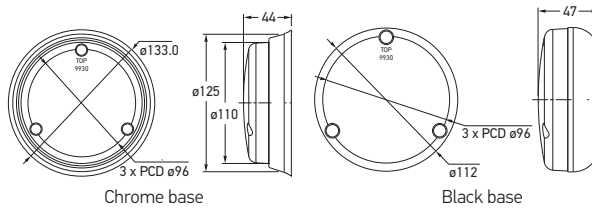
Low profile LED rear direction indicator lamp (category 2a) specifically designed for commercial transport applications. Features high-intensity LEDs and high impact acrylic lens for superior light output and impact resistance.



2BA 959 932-581



2BA 959 932-571



Part Number	2BA 959 932-581	CHROME BASE
	2BA 959 932-571	BLACK BASE
	2BA 959 932-551	MODULE
Mounting	Mounting only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Approval Markings	E24 0023      E4 10R 04-2915      ISO 13207-1	

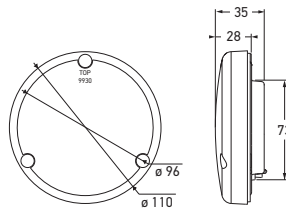
Chrome and black base image and diagram shown. Pendant mount is also available.  
Lamp compatible with 12V DC and 24V DC HCS units.

### 110mm Round LED Rear Direction Indicator Lamp - Amber Lens

Low profile LED rear direction indicator lamp (category 2a) specifically designed for commercial transport applications. Features high-intensity LEDs and high impact acrylic lens for superior light output and impact resistance.



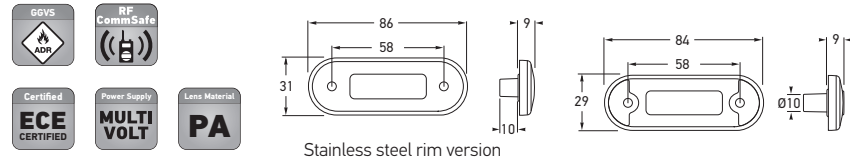
2BA 959 932-511



Part Number	2BA 959 932-541	CHROME BASE
	2BA 959 932-531	BLACK BASE
	2BA 959 932-511	MODULE
Mounting	Mounting only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Approval Markings	E24 0023      E4 10R 04-2915      ISO 13207-1	

Module image and diagram shown. Pendant mount is also available.  
Lamp compatible with 12V DC and 24V DC HCS units.

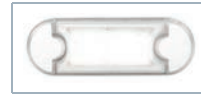




<b>Part Number</b>	<b>BLACK SCREW CAPS</b>		
	2PF 959 855-201	2PF 959 855-207 (Pack of 24)	500MM CABLE
	2PF 959 855-241	2PF 959 855-247 (Pack of 16)	2.5M CABLE
	<b>WHITE SCREW CAPS</b>		
	2PF 959 855-251	2PF 959 855-257 (Pack of 24)	500MM CABLE
<b>Mounting</b>	Flush mount. Suitable for horizontal or vertical mounting.		
<b>Voltage</b>	Multivolt for optimum brightness at input voltage from 9 to 33 volts.		
<b>Power Consumption</b>	0.5W		
<b>Protection</b>	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
<b>Cable Length</b>	2PF 959 855-2xx 2PF 959 855-24x	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Spare Parts</b>	9AB 959 685-201 9HD 980 858-018	Polished stainless steel rim ECE engraved White screw caps	
<b>Approval Markings</b>	E24 5878      E4 10R 04-2899		

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

White flush 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.



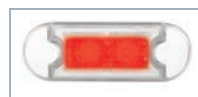
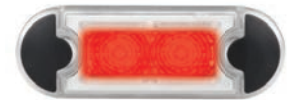
P/N 2PF 959 855-251

ECE APPROVED LED LAMPS

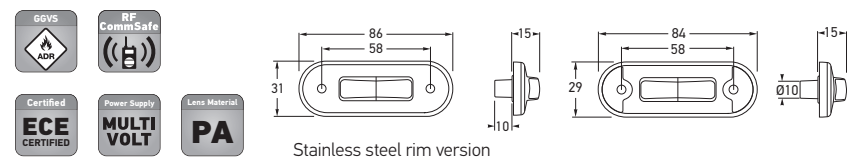
<b>Part Number</b>	<b>BLACK SCREW CAPS</b>		
	2XS 959 855-401	2XS 959 855-407 (Pack of 24)	500MM CABLE
	2XS 959 855-441	2XS 959 855-447 (Pack of 16)	2.5M CABLE
	<b>WHITE SCREW CAPS</b>		
	2XS 959 855-451	2XS 959 855-457 (Pack of 24)	500MM CABLE
<b>Approval Markings</b>	E24 5878      E4 10R 04-2899		
Other specifications as per P/N 2PF 959 855-2xx. Diagram shown.			

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

Red flush 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 clear until illuminated.



P/N 2PF 959 855-451



<b>Part Number</b>	<b>BLACK SCREW CAPS</b>		
	2PS 980 868-201	2PS 980 868-207 (Pack of 24)	500MM CABLE
	2PS 980 868-211	2PS 980 868-217 (Pack of 16)	2.5M CABLE
<b>Approval Markings</b>	E24 0007      E4 10R 04-2899		
Other specifications as per P/N 2PF 959 855-2xx.			

**DuraLED Flush Mount Side Marker  
(Cat. SM1) Lamp**

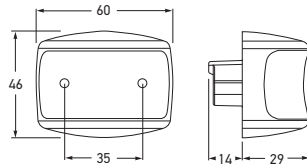
Amber flush mount side marker lamp (Cat. SM1) with optional stainless steel rim. Featuring a low profile ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



ECE APPROVED LED LAMPS

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

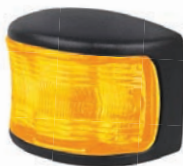
Heavy duty white front position or end outline LED lamp (FEOL) with DT connector and nylon housing. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



<b>Part Number</b>	<b>2PF 980 990-221</b>	<b>2PF 980 990-227 (Pack of 8)</b>
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	<1W	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Parts	9BG 980 996-002    Black housing	9BG 980 996-102    White housing
Approval Markings	A 02 E24 5892    E4 10R 05-3195	

**DuraLED Heavy Duty Side Marker  
(Cat. SM1) Lamp with DT Connector**

Heavy duty amber side marker lamp (Cat. SM1) with DT connector. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



<b>Part Number</b>	<b>2PS 980 990-301</b>	<b>2PS 980 990-307 (Pack of 8)</b>
Approval Markings	SM1 00 E24 5892    E4 10R 05-3195	
Other specifications as per P/N 2PF 980 990-22x. Diagram shown.		

**DuraLED Heavy Duty Supplementary  
Side Direction Indicator (Cat. 5) Lamp  
with DT Connector**

Heavy duty amber supplementary side direction indicator lamp (Cat. 5) with DT connector. Featuring ultra durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



<b>Part Number</b>	<b>2BM 980 990-121</b>	<b>2BM 980 990-127 (Pack of 8)</b>
Approval Markings	5 01 E24 0067    E4 10R 05-3195	
Other specifications as per P/N 2PF 980 990-22x. Diagram shown.		

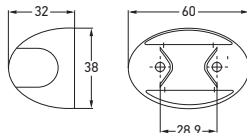
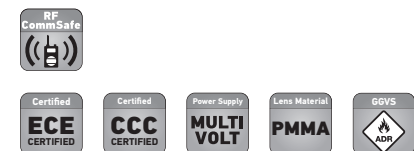
**DuraLED Heavy Duty Rear Position/  
End Outline Lamp with DT Connector**

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.



<b>Part Number</b>	<b>2XS 980 990-621</b>	<b>2XS 980 990-627 (Pack of 8)</b>
Approval Markings	R1 02 E24 5892    E4 10R 05-3195	
Other specifications as per P/N 2PF 980 990-22x. Diagram shown.		

**ECE APPROVED LED LAMPS**

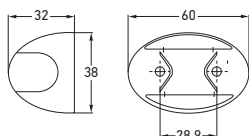
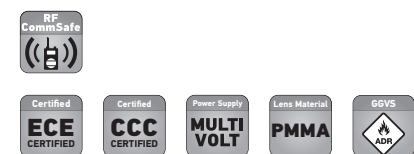


**DuraLED Front Position/End Outline Lamp**

White front position or front end outline (FEOL) LED lamp. See page 108 for additional shroud colours.



Part Number	2PF 959 570-202 (Pack of 2)	2PF 959 570-207 (Pack of 16)	500MM CABLE
	2PF 959 570-212 (Pack of 2)	2PF 959 570-217 (Pack of 10)	5M CABLE
Mounting	Surface mount. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts.		
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	2PF 959 570-20x 2PF 959 570-21x	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 5m of sheathed multi-core cable.	
Approval Markings	E24 0051	E4 10R 04-2911	

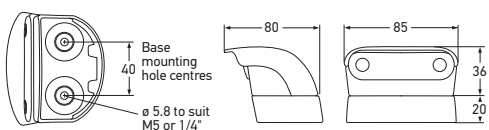
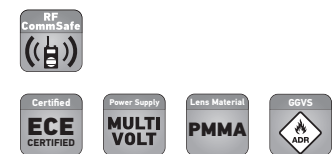


**DuraLED Rear Position/End Outline Lamp**

Red rear position or end outline (REOL) LED lamp. See page 108 for additional shroud colours.



Part Number	2XA 959 560-401 (Pack of 2)	2XA 959 560-407 (Pack of 16)	500MM CABLE
	2XA 959 560-411 (Pack of 2)	2XA 959 560-417 (Pack of 10)	5M CABLE
Mounting	Surface mount. Suitable for horizontal mounting only.		
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts.		
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	2XA 959 560-40x 2XA 959 560-41x	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 5m of sheathed multi-core cable.	
Approval Markings	E4 02 7574	E4 10R 04-2906	



**LED Number Plate Lamp**

White LED number plate lamp.



Part Number	2KA 959 640-611	2KA 959 640-617 (Pack of 8)	500MM CABLE
	2KA 959 640-601	2KA 959 640-607 (Pack of 8)	2.5M CABLE
	2KA 959 640-101	2KA 959 640-102 (Pack of 3)	LIGHT MODULE
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts.		
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	2KA 959 640-60x/-10x 2KA 959 640-61x	Pre-wired with 2.5m of sheathed multi-core cable. Pre-wired with 500mm of sheathed multi-core cable.	
Approval Markings	E4 4068	E4 10R 04-2906	
Spare Part	8HG 959 647-001	Mounting kit	

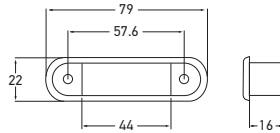
Two lamps required for ECE compliance when mounted on either side of number plate. Three lamps required for ECE compliance when mounted above the number plate.

ECE APPROVED LED LAMPS

ECE APPROVED LED LAMPS

### LED Front Position/End Outline Lamp

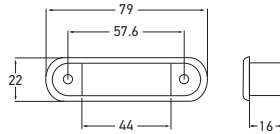
Recess mount white front position or front end outline (FEOL) LED lamp.



Part Number	2PF 959 590-202 (Pack of 2)	2PF 959 590-207 (Pack of 30)	500MM CABLE
	2PF 959 590-212 (Pack of 2)	2PF 959 590-217 (Pack of 10)	5M CABLE
Mounting	Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts.		
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	2PF 959 590-20x 2PF 959 590-21x	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 5m of sheathed multi-core cable.	
Approval Markings	Ⓔ24 0054	Ⓔ4 10R 04-2911	

### LED Rear Position/End Outline Lamp

Recess mount red rear end outline (REOL) or rear position LED lamp.



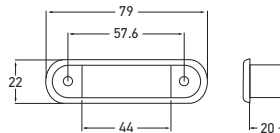
Part Number	2XA 959 790-401 (Pack of 2)	2XA 959 790-407 (Pack of 30)	500MM CABLE
	2XA 959 790-411 (Pack of 2)	2XA 959 790-417 (Pack of 10)	5M CABLE
Mounting	Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts.		
Power Consumption	<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	2XA 959 790-40x 2XA 959 790-41x	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 5m of sheathed multi-core cable.	
Approval Markings	Ⓔ4 02 7597	Ⓔ4 10R 04-2906	

### LED Side Marker Lamp

Recess mount amber and clear SM1 side marker LED lamp.

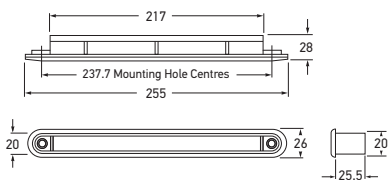


2PS 959 788-102



Part Number	2PS 959 788-002 (Pack of 2)	2PS 959 788-007 (Pack of 30)	AMBER LENS
	2PS 959 788-102 (Pack of 2)	2PS 959 788-107 (Pack of 30)	CLEAR LENS
Mounting	Suitable for horizontal mounting only.		
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts.		
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 500mm of sheathed multi-core cable.		
Approval Markings	Ⓔ24 0004	Ⓔ4 10R 04-2911	

ECE APPROVED LED LAMPS



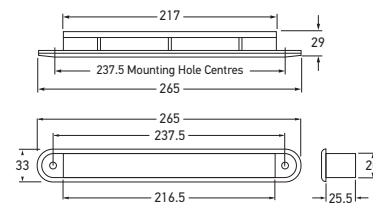
Part Number	12 VOLT	24 VOLT	CLEAR LENS
	2DA 959 071-077	2DA 959 071-277	
2DA 959 071-577	2DA 959 071-777		RED LENS
		2DA 959 071-757 (Wide Rim)	
Mounting	Suitable for horizontal mounting only. Two hole recess mount.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against 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.		
Approval Markings	E4 02 7547 SAE U3 97 DOT		
CCC marked versions are available upon request.			

LED Spoiler Centre High Mount Stop Lamp

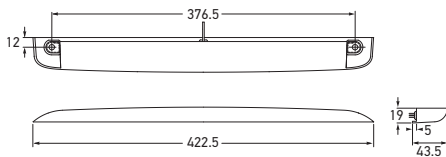
Spoiler or exterior mounted 12 LED centre high mount stop lamp, available with a red or clear lens. Pack of 10 lamps.



2DA 959 071-577 2DA 959 071-757 (Wide rim)



Wide rim diagram shown.



Part Number	2DA 959 580-551	CLEAR LENS
	2DA 959 580-151	RED LENS
Mounting	Suitable for horizontal mounting only.	
Voltage	12V DC	
Power Consumption	<3W	
Protection	Reverse polarity protection.	
Cable Length	Pre-wired with 3.5m of cable.	
Approval Markings	E4 02 7587 SAE U3 02 DOT	

LED Spoiler Centre High Mount Stop Lamp - 12 Volt

Spoiler mounted 12 LED centre high mount stop lamp, available with a red or clear high impact acrylic lens.



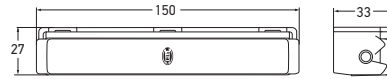
2DA 959 580-551

ECE APPROVED LED LAMPS

ECE APPROVED LED LAMPS

**LED Daytime Running Lamps - 0°**

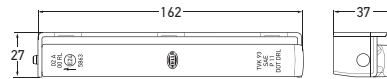
Forward facing signal lamps, designed to be mounted on vehicles with flat fronts, or on motorbikes. The lamps are an Easy-Fit installation, usually requiring no extra parts. Once the wiring is complete and the bracket is fitted, the LED lamp easily clips into place and installation is complete.



Part Number	LAMP MODULE		KIT	
		2PT 980 970-021	2PT 980 970-821	12 VOLT
		2PT 980 970-521	2PT 980 970-871	24 VOLT
Mounting	Suitable for horizontal mounting only.			
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	Single lamps are pre-wired with 2.5m of sheathed multi-core cable. Lamps supplied with kit are pre-wired with 2.8m of sheathed multi-core cable.			
Spare Parts	8HG 980 875-101 5DF 980 816-051 5DF 980 816-551	Brackets (LH/RH) LED DRL/PO Control Unit (12 Volt) LED DRL/PO Control Unit (24 Volt)		
Approval Markings	E24 5875	SAE P 14 DOT DRL		
Kit Contents	2PT 980 970-821/...-871 2 x LED daytime running lamps 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet 10 x Cable ties 4 x Accessory cable looms			







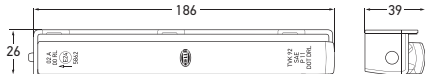
**LED Daytime Running Lamps - 15°**

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.



Part Number	LAMP MODULE		KIT	
		2PT 980 860-001	2PT 980 860-801	12 VOLT
		2PT 980 860-501	2PT 980 860-851	24 VOLT
Mounting	Suitable for horizontal mounting only.			
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	Single lamps are pre-wired with 2.5m of sheathed multi-core cable. Lamps supplied with kit are pre-wired with 2.8m of sheathed multi-core cable.			
Spare Parts	8HG 980 864-101 5DF 980 816-001 5DF 980 816-501	Brackets (LH/RH) LED DRL/PO Control Unit (12 Volt) LED DRL/PO Control Unit (24 Volt)		
Approval Markings	E24 5863	SAE P 11 DOT DRL		
Kit Contents	2PT 980 860-801/...-851 2 x LED daytime running lamps 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet 10 x Cable ties 4 x Accessory cable looms			

ECE APPROVED LED LAMPS

Part Number	LAMP MODULE	KIT	
		2PT 980 850-001	2PT 980 850-801
	2PT 980 850-501	2PT 980 850-851	24 VOLT

Mounting: Suitable for horizontal mounting only.

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: Single lamps are pre-wired with 2.5m of sheathed multi-core cable.  
Lamps supplied with kit are pre-wired with 2.8m of sheathed multi-core cable.

Spare Parts:

8HG 980 854-101	Brackets (LH/RH)
5DF 980 816-001	LED DRL/PO Control Unit (12 Volt)
5DF 980 816-501	LED DRL/PO Control Unit (24 Volt)

Approval Markings: E24 5862 SAE P 11 DOT DRL

Kit Contents: 2PT 980 850-801/...-851  
2 x LED daytime running lamps  
2 x Mounting brackets  
6 x Mounting screws  
1 x Changeover relay  
1 x Instruction sheet  
10 x Cable ties  
4 x Accessory cable looms

LED Daytime Running Lamps - 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.



ECE APPROVED LED LAMPS

LED DRL/PO Control Unit

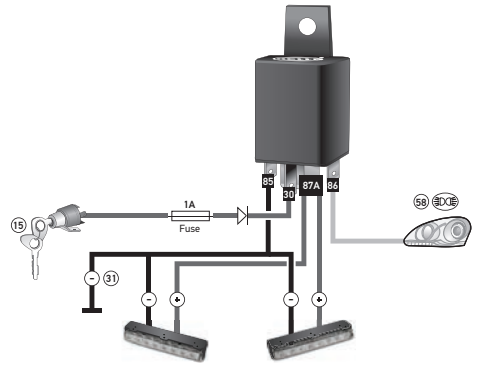
A control unit that dims the light output of LED daytime running lamps to front position/park function level.



Part Number	12 VOLT	24 VOLT	
	5DF 980 816-001	5DF 980 816-501	5DF 980 816-551
5DF 980 816-051	5DF 980 816-551		0°

Requirement: One unit is required per pair of LED daytime running lamps.

**RECOMMENDED INSTALLATION DIAGRAM FOR WIRING**



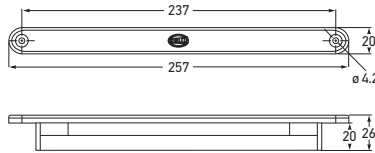
**WIRING SPECIFICATIONS**

Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	LED daytime running lamps (+)

ECE APPROVED LED LAMPS

### LED Daytime Running Lamp

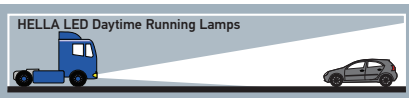
ECE certified LED daytime running lamp with clear Grilamid® lens. Complete with mounting screws and clear screw caps. Kit contains 2 LED lamps and a changeover relay.



Part Number	LAMP MODULE	KIT	
		2PT 980 680-001	2PT 980 680-801
	2PT 980 680-501	2PT 980 680-851	24 VOLT
Mounting	Suitable for horizontal mounting only. Two hole 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.		
Approval Markings	E24 0001		



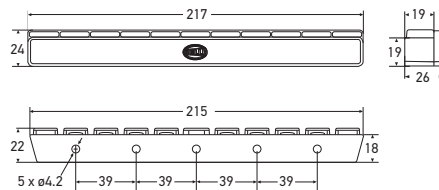
Low Beam  
Designed to light the road at night without causing glare to other road users.



HELLA LED Daytime Running Lamps  
Designed to increase the visibility (conspicuity) of your vehicle during daytime.

### LED Daytime Running Lamp

ECE certified LED daytime running lamp with clear Grilamid® lens. Complete with mounting frame and screws. Kit contains 2 LED lamps and a changeover relay.

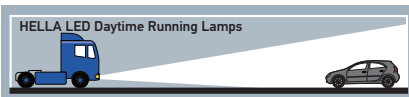


Bracket

Part Number	LAMP MODULE	KIT	
		2PT 980 680-101	2PT 980 680-821
	2PT 980 680-601	2PT 980 680-861	24 VOLT
Mounting	Suitable for horizontal mounting only.		
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.		
Approval Markings	E24 0001		



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



HELLA LED Daytime Running Lamps  
Designed to increase the visibility (conspicuity) of your vehicle during daytime.





## LED Daytime Running Lamps

LED Daytime Running Lamps are forward facing Signal Lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.



Technology with Vision



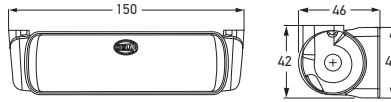
ECE APPROVED LED LAMPS

**LED Daytime Running Lamp**

ECE certified LED daytime running lamp with Grilamid® lens.

**2PT 980 670-801:** Includes 2 LED lamps with professional wiring harness and connectors, universal mounting brackets, mounting screws and full instructions.

**2PT 980 670-811:** Includes 2 LED lamps complete with 2.5m three-core sheathed cable, universal mounting brackets, mounting screws and full instructions.



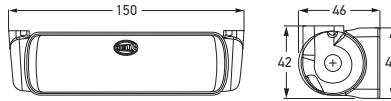
<b>Part Number</b>	<b>2PT 980 670-001</b>	
	<b>KITS</b>	
	<b>2PT 980 670-801 (IAM Kit)</b>	<b>2PT 980 670-811 (SOE Kit)</b>
Mounting	Suitable for horizontal, pendant or upright mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	<2W	
Protection	Reverse polarity and spike protected. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	2PT 980 670-001/...801 2PT 980 670-811	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	E24 0002	E4 10R 04-2902

**LED Daytime Running Lamp - 12 Volt**

ECE certified LED front position/daytime running lamp with Grilamid® lens.

**2PT 980 670-851:** Includes 2 LED lamps with professional wiring harness and connectors, universal mounting brackets, mounting screws and full instructions.

**2PT 980 670-931:** Includes 2 LED lamps complete with 2.5m three-core sheathed cable, universal mounting brackets, mounting screws and full instructions.



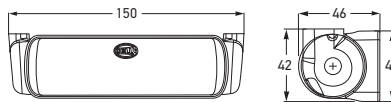
<b>Part Number</b>	<b>2PT 980 670-501</b>	
	<b>KITS</b>	
	<b>2PT 980 670-851 (IAM Kit)</b>	<b>2PT 980 670-931 (SOE Kit)</b>
Mounting	Suitable for horizontal, pendant or upright mounting.	
Voltage	12V DC	
Power Consumption	3W	
Protection	Reverse polarity and spike protected. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	2PT 980 670-501/...851 2PT 980 670-931	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	E24 0002	E4 10R 04-2902

**LED Front Position/Daytime Running Lamp - 12 Volt**

ECE certified LED front position/daytime running lamp with Grilamid® lens.

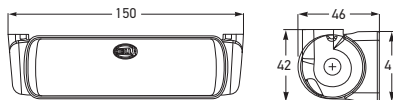
**2PT 980 670-881:** Includes 2 LED lamps with professional wiring harness and connectors, universal mounting brackets, mounting screws and full instructions.

**2PT 980 670-901:** Includes 2 LED lamps complete with 2.5m three-core sheathed cable, universal mounting brackets, mounting screws and full instructions.



<b>Part Number</b>	<b>2PT 980 670-551</b>	
	<b>KITS</b>	
	<b>2PT 980 670-881 (IAM Kit)</b>	<b>2PT 980 670-901 (SOE Kit)</b>
Mounting	Suitable for horizontal, pendant or upright mounting.	
Voltage	12V DC	
Power Consumption	Daytime running lamp: 3W      Front position: 1W	
Protection	Reverse polarity and spike protected. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	2PT 980 670-551/...881 2PT 980 670-901	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	E24 0044      E24 0002	E4 10R 04-2902

ECE APPROVED LED LAMPS



Part Number	2PT 980 670-601	
	KITS	
	2PT 980 670-861 (IAM Kit)	2PT 980 670-941 (SOE Kit)
Mounting	Suitable for horizontal, pendant or upright mounting.	
Voltage	24V DC	
Power Consumption	3W	
Protection	Reverse polarity and spike protected. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	2PT 980 670-601/...861 2PT 980 670-941	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	E24 0002	E4 10R 04-2902

LED Daytime Running Lamp - 24 Volt

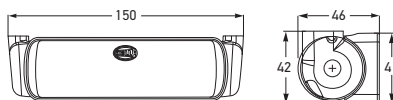
ECE certified LED daytime running lamp with Grilamid® lens.

**2PT 980 670-861:** Includes 2 LED lamps with professional wiring harness and connectors, universal mounting brackets mounting screws and full instructions.

**2PT 980 670-941:** Includes 2 LED lamps complete with 2.5m three-core sheathed cable, universal mounting brackets, mounting screws and full instructions.



ECE APPROVED LED LAMPS



Part Number	2PT 980 670-651	
	KITS	
	2PT 980 670-891 (IAM Kit)	2PT 980 670-911 (SOE Kit)
Mounting	Suitable for horizontal, pendant or upright mounting.	
Voltage	24V DC	
Power Consumption	Daytime running lamp: 3W Front position: 1W	
Protection	Reverse polarity and spike protected. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	2PT 980 670-651/...891 2PT 980 670-911	Pre-wired with 500mm of sheathed multi-core cable. Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	E24 0044	E24 0002 E4 10R 04-2902

LED Front Position/Daytime Running Lamp - 24 Volt

ECE certified LED front position/daytime running lamp with Grilamid® lens.

**2PT 980 670-891:** Includes 2 LED lamps with professional wiring harness and connectors, universal mounting brackets, mounting screws and full instructions.

**2PT 980 670-911:** Includes 2 LED lamps complete with 2.5m three-core sheathed cable, universal mounting brackets, mounting screws and full instructions.



Part Number	Function	ECE Regulation Number	ECE Type Approval Number	EMC Type Approval Number
<b>LED Light Bar 350</b>				
1FJ 958 040-001	Headlamp Driving Beam	ECE Reg. 112/01 Cat. HR PL	E24 0008	E4 10R 04-2909
1FJ 958 040-051	Headlamp Driving Beam	ECE Reg. 112/01 Cat. HR PL	E24 0009	E4 10R 04-2909
1FJ 958 040-072	Headlamp Driving Beam	ECE Reg. 112/01 Cat. HR PL	E24 0009	E4 10R 04-2909
1FJ 958 040-082	Headlamp Driving Beam	ECE Reg. 112/01 Cat. HR PL	E24 0009	E4 10R 04-2909
<b>LED Light Bar 470</b>				
1FJ 958 130-111	Headlamp Driving Beam	ECE Reg. 112/01 Cat. HR PL	E24 0012	E4 10R 05-1947
1FJ 958 130-011	Headlamp Driving Beam	ECE Reg. 112/01 Cat. HR PL	E24 0013	E4 10R 05-1947
<b>83mm Round LED Lamps</b>				
2BE 980 69x-xxx	Front Direction Indicator/Daytime Running Lamp	ECE Reg. 6/01 Cat. 1/ECE Reg. 7/02 Cat. A/ECE Reg. 87/00 Cat. RL	E24 5854	E4 10R 04-2907
2BE 980 69x-30x	Front Direction Indicator/Front Position Lamp	ECE Reg. 6/01 Cat. 1/ECE Reg. 7/02 Cat. A	E24 5854	E4 10R 04-2907
2PT 980 69x-60x	Daytime Running Lamp	ECE Reg. 87/00 Cat. RL	E24 5854	E4 10R 04-2907
2SD 959 010-20x	Stop/Rear Position/Rear Direction Indicator Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a	E9 1538	E4 10R 04-2741
2SD 959 010-40x	Stop/Rear Position/Rear Direction Indicator Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a	E9 1538	E4 10R 04-2741
2SB 959 010-00x	Stop/Rear Position Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R	E4 11391	E4 10R 04-2741
2BA 959 011-00x	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E4 11391	E4 10R 04-2741
2SB 959 010-30x	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E4 12373	E4 10R 04-2741
2BA 959 011-30x	Stop/Rear Position Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R	E4 12373	E4 10R 04-2741
2ZR 959 010-50x	Reversing Lamp	ECE Reg. 23/00 Cat. AR	E4 11391	E4 10R 04-2741
2NE 959 011-50x	Rear Fog Lamp	ECE Reg. 38/00 Cat. F1	E4 11391	E4 10R 04-2741
<b>LED Slim Surface Mount</b>				
2BA 980 888-xxx	Front Direction Indicator Lamp Horizontal Mount	ECE Reg. 6/01 Cat. 1	E24 5869	E4 10R 04-2910
2BA 980 888-xxx	Front Direction Indicator Lamp Vertical Mount	ECE Reg. 6/01 Cat. 1	E24 5890	E4 10R 04-2910
2BA 980 888-xxx	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E24 5891	E4 10R 04-2910
2SB 980 887-xxx	Stop/Rear Position Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R	E24 5891	E4 10R 04-2913
2DA 980 887-xxx	Auxiliary Stop Lamp	ECE Reg. 7 Cat. S3	E24 0087	E4 10R 04-2910
2NE 980 889-xxx	Rear Fog Lamp	ECE Reg. 38/00 Cat. F1	E24 0010	E4 10R 04-2910
2ZR 980 889-xxx	Reversing Lamp Horizontal Mount	ECE Reg. 23/00 Cat. AR	E24 0027	N/A
2ZR 980 889-xxx	Reversing Lamp Vertical Mount	ECE Reg. 23/00 Cat. AR	E24 0028	N/A

Part Number	Function	ECE Regulation Number	ECE Type Approval Number	EMC Type Approval Number
<b>LED Slim Surface Mount</b>				
2PT 980 880-xxx	Front Position/Daytime Running Lamp	ECE Reg. 7/02 Cat. A/ECE Reg. 87/00 Cat. RL	E24 5869	N/A
<b>EuroLED Series</b>				
2SB 959 821-6xx	Stop/Rear Position Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R	E4 10208	E4 10R 04-2894
2BA 959 822-6xx	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E4 10208	E4 10R 04-2742
2NE 959 821-2xx	Rear Fog Lamp	ECE Reg. 38/00 Cat. F	E4 10208	E4 10R 04-2894
2ZR 959 820-6xx	Reversing Lamp	ECE Reg. 23/00 Cat. AR	E4 10208	E4 10R 04-2894
2SB 959 020-6xx	Stop/Rear Position Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R	E4 10208	E4 10R 04-2896
2BA 959 021-6xx	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E4 10208	E4 10R 04-2896
<b>DuraLED Series</b>				
2SB 980 606-xxx	Stop/Rear Position Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R	E24 5850	E4 10R 04-2891
2BA 980 607-xxx	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E24 5850	E4 10R 04-2892
2ZR 980 605-xxx	Reversing Lamp	ECE Reg. 23/00 Cat. AR	E24 5850	E4 10R 04-2891
<b>DuraLED Combi Lamps</b>				
2SK 980 603-xxx	Stop/Rear Position/Rear Direction Indicator/Reversing Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 23/00 Cat. AR	E24 5870	E4 10R 04-0958
2SK 980 615-xxx	Stop/Rear Position/Rear Direction Indicator/Reversing Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 23/00 Cat. AR	E24 5870	E4 10R 04-0958
2SD 959 050-401	Stop/Rear Position/Rear Direction Indicator Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a	E4 10176	E4 10R 04-2734
2SD 959 050-001	Stop/Rear Position/Rear Direction Indicator Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a	E4 10176	E4 10R 04-2895
<b>DuraLED Combi-S Lamps</b>				
2SK 980 613-501	Stop/Rear Position/Rear Direction Indicator/Reversing Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 23/00 Cat. AR	E24 5894	E4 10R 04-2912
2SK 980 602-501	Stop/Rear Position/Rear Direction Indicator/Reversing With DT Connector and Night Light Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 23/00 Cat. AR	E24 5894	E4 10R 04-2912
2SD 980 613-211	Stop/Rear Position/Rear Direction Indicator Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a	E24 5883	E4 10R 04-2901
2SD 980 602-211	Stop/Rear Position/Rear Direction Indicator Lamp	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a	E24 5883	E4 10R 04-2901
<b>DuraLED Combi-R Lamps</b>				
2VA 980 710-xxx	Stop/Rear Position/Rear Direction Indicator Lamp with Reflector	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 3/02 Cat. IA	E24 5882	E4 10R 04-2900

## ECE APPROVED LED LAMPS

Part Number	Function	ECE Regulation Number	ECE Type Approval Number	EMC Type Approval Number
<b>LED Combination Trailer Lamps</b>				
2VA 980 720-00x	Stop/Rear Position/Rear Direction Indicator Lamp with Reflector	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 3/02 Cat. IA	E24 5860	E4 10R 05-3262
2VB 980 720-xxx	Stop/Rear Position/Rear Direction Indicator Lamp with Reflector and Number Plate Function	ECE Reg. 7/02 Cat. S1/ECE Reg. 7/02 Cat. R/ECE Reg. 6/01 Cat. 2a/ECE Reg. 3/02 Cat. IA/ECE Reg. 4/00 Cat. L	E24 5860	E4 10R 05-3262
<b>110mm Round LED Lamps</b>				
2BE 959 932-xxx	Front Direction Indicator/Front Position Lamp	ECE Reg. 6/01 Cat. 1/ECE Reg. 7/02 Cat. A	E24 5851	E4 10R 04-2915
2BA 959 932-00x	Front Direction Indicator Lamp	ECE Reg. 6/01 Cat. 1	E24 0023	E4 10R 04-2915
2BA 959 932-5xx	Rear Direction Indicator Lamp	ECE Reg. 6/01 Cat. 2a	E24 0023	E4 10R 04-2915
<b>DuraLED Flush Mount Marker Lamps</b>				
2PF 959 855-2xx	Front Position/End Outline Lamp	ECE Reg. 7/02 Cat. A	E24 5878	E4 10R 04-2899
2PF 959 855-4xx	Rear Position/End Outline Lamp	ECE Reg. 7/02 Cat. R	E24 5878	E4 10R 04-2899
2PS 980 868-2xx	Side Marker Lamp	ECE Reg. 91/00 Cat. SM1	E24 0007	E4 10R 04-2899
<b>DuraLED Heavy Duty Surface Mount Marker Lamps</b>				
2PF 980 990-22x	Front Position/End Outline Lamp	ECE Reg. 7/02 Cat. A	A 02 E24 5892	E4 10R 05-3195
2PS 980 990-30x	Side Marker Lamp	ECE Reg. 91/00 Cat. SM1	SM1 00 E24 5892	E4 10R 05-3195
2BM 980 990-12x	Supplementary Side Direction Indicator Lamp	ECE Reg. 6/01 Cat. 5	5 01 E24 5892	E4 10R 05-3195
2XS 980 990-62x	Rear Position/End Outline Lamp	ECE Reg. 7/02 Cat. R	R1 02 E24 5892	E4 10R 05-3195
<b>DuraLED Surface Mount Marker Lamps</b>				
2PF 959 570-2xx	Front Position/End Outline Lamp	ECE Reg. 7/02 Cat. A	E24 0051	E4 10R 04-2911
2XA 959 560-4xx	Rear Position/End Outline Lamp	ECE Reg. 7/02 Cat. R	E4 02 7574	E4 10R 04-2906
<b>Number Plate Lamps</b>				
2KA 959 640-xxx	Rear Registration Plate Lamp	ECE Reg. 4/00 Cat. L	E4 4068	E4 10R 04-2906
<b>Recess Mount Marker Lamps</b>				
2PF 959 590-2xx	Front Position/End Outline Lamp	ECE Reg. 7/02 Cat. A	E24 0054	E4 10R 04-2911
2XA 959 790-4xx	Rear Position/End Outline Lamp	ECE Reg. 7/02 Cat. R	E4 02 7957	E4 10R 04-2906
2PS 959 788-xxx	Side Marker Lamp	ECE Reg. 91/00 Cat. SM1	E24 0004	E4 10R 04-2911
<b>1x12 Centre High Mount Stop Lamps</b>				
2DA 959 071-xxx	Stop Lamp	ECE Reg. 7 Cat S3	E4 02 7547	N/A
<b>580 Series Centre High Mount Stop Lamps</b>				
2DA 959 580-xxx	Stop Lamp	ECE Reg. 7 Cat S3	E4 02 7587	N/A

Part Number	Function	ECE Regulation Number	ECE Type Approval Number	EMC Type Approval Number
<b>LED Daytime Running Lamps</b>				
2PT 980 970-xxx	Front Position/Daytime Running Lamp	ECE Reg. 7/02 Cat. A/ECE Reg. 87/00 Cat. RL	E24 5875	N/A
2PT 980 860-xxx	Front Position/Daytime Running Lamp	ECE Reg. 7/02 Cat. A/ECE Reg. 87/00 Cat. RL	E24 5863	N/A
2PT 980 850-xxx	Front Position/Daytime Running Lamp	ECE Reg. 7/02 Cat. A/ECE Reg. 87/00 Cat. RL	E24 5862	N/A
2PT 980 680-xxx	Daytime Running Lamp	ECE Reg. 87/00 Cat. RL	E24 0001	N/A
2PT 980 670-xxx	Daytime Running Lamp	ECE Reg. 87/00 Cat. RL	E24 0002	E4 10R 04-2902
2PT 980 670-xxx	Front Position/Daytime Running Lamp	ECE Reg. 7/02 Cat. A/ECE Reg. 87/00 Cat. RL	E24 0002 E24 0044	E4 10R 04-2902



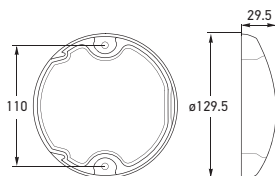
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### EuroLED Stop/Tail/Rear Turn Signal Lamp

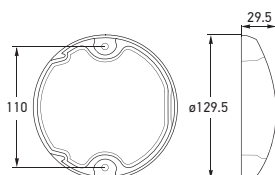
Low profile LED stop/tail/turn signal lamps with single LED. The use of precision optics enable a single high intensity LED to be used for the first time in a commercial vehicle lamp, resulting in low power consumption.



Part Number	2SB 959 821-301	BLACK COVER
	2SB 959 821-311	WHITE COVER
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/Rear turn: 2.5W Tail: 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.	
Approval Markings	SAE S2 T2 I6 05 DOT	

### EuroLED Reversing Lamp

Low profile LED reversing lamp with single LED and clear lens.



Part Number	2ZR 959 820-201	BLACK COVER
	2ZR 959 820-211	WHITE COVER
Power Consumption	2.5W	
Approval Markings	SAE R 05 DOT	

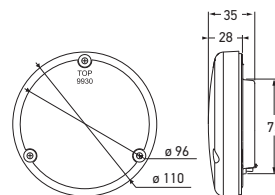
Other specifications as per P/N 2SB 959 821-3xx.

### 110mm Round LED Stop/Tail/Rear Turn Signal Lamp

LED lamps for commercial transport, buses, caravans and trailers. Featuring low power consumption and Multivolt circuitry ensuring full light output from 9 to 33 volts.



2SB 959 931-801



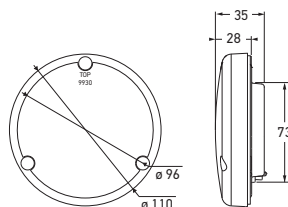
Part Number	2SB 959 931-841	CHROME BASE
	2SB 959 931-831	BLACK BASE
	2SB 959 931-801	MODULE
Mounting	Mounting only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop/Rear turn: 3W	Tail: 1W
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) Sealed against dust and water ingress.	
Cable Length	Pre-wired with 200mm of cable.	
Approval Markings	SAE I6 S2 T2 06 DOT	

Module image and diagram shown.

SAE COMPLIANT LED LAMPS



SAE COMPLIANT LED LAMPS



110mm Round LED Front Turn Signal Lamp

Low profile LED front turn signal lamp specifically designed for commercial transport applications. Features high-intensity LEDs and high impact acrylic lens for superior light output and impact resistance.

Part Number	2BA 959 932-421	CHROME BASE
	2BA 959 932-411	BLACK BASE
	2BA 959 932-401	MODULE

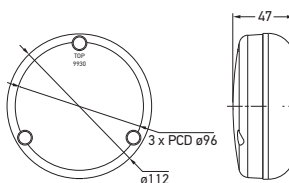
Mounting	Mounting only with lens engraving "TOP" located correctly.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) Sealed against dust and water ingress.
Cable Length	Pre-wired with 200mm of cable.
Approval Markings	SAE I6 08 DOT

Clear lens or pendant mount is also available. Module image and diagram shown.



2BA 959 932-401

SAE COMPLIANT LED LAMPS



110mm Round LED Rear Turn Signal Lamp

Low profile LED rear turn signal lamp specifically designed for commercial transport applications.

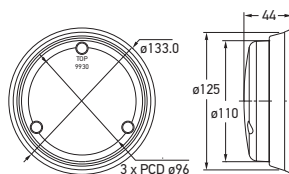
Part Number	2BA 959 932-841	CHROME BASE
	2BA 959 932-831	BLACK BASE
	2BA 959 932-801	MODULE

Power Consumption	3W
Approval Markings	SAE I6 06 DOT

Other specifications as per P/N 2BA 959 932-4xx. Black base image and diagram shown.



2BA 959 932-831



110mm Round LED Reversing Lamp

Low profile LED reversing lamp specifically designed for commercial transport applications.

Part Number	2ZR 959 930-841	CHROME BASE
	2ZR 959 930-831	BLACK BASE
	2ZR 959 930-801	MODULE

Power Consumption	5W
Approval Markings	SAE R 06 DOT

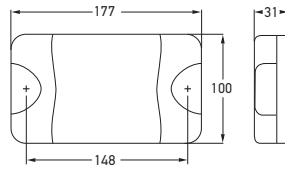
Other specifications as per P/N 2BA 959 932-4xx. Chrome base image and diagram shown. Reversing lamp is not designed for continuous use.



2ZR 959 930-841

### DuraLED Stop/Tail/Rear Turn Signal Lamp

Durable rear lamps for trucks, buses, caravans and trailers, featuring polycarbonate lens, low power consumption and Multivolt circuitry ensuring full light output from 9 to 33 volts. The lamps are fully sealed against dust and moisture.



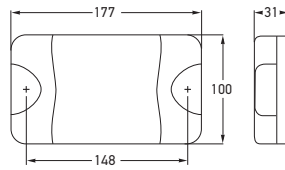
<b>Part Number</b>	<b>2SB 959 060-301</b>	<b>2SB 959 060-307 (Pack of 4)</b>
<b>Mounting</b>	Suitable for horizontal or vertical mounting. Two hole surface mount with mounting bushes supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	Stop/Rear turn: <8W Tail: 2W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	SAE S2 T2 I6 99 DOT	



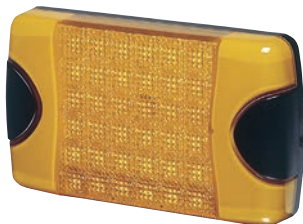
SAE COMPLIANT LED LAMPS

### DuraLED Rear Turn Signal Lamp







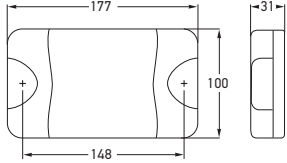
Durable rear lamps for trucks, buses, caravans and trailers, featuring polycarbonate lens, low power consumption and Multivolt circuitry ensuring full light output from 9 to 33 volts. The lamps are fully sealed against dust and moisture.



<b>Part Number</b>	<b>2BA 959 070-301</b>	<b>2BA 959 070-307 (Pack of 4)</b>
<b>Mounting</b>	Suitable for horizontal or vertical mounting. Two hole surface mount with mounting bushes supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	<8W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	SAE I6 99 DOT	

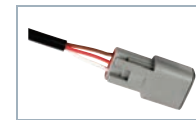


SAE COMPLIANT LED LAMPS

     		
<b>Part Number</b>	<b>2SB 959 060-331</b>	<b>2SB 959 060-337 (Pack of 12)</b>
Mounting	Suitable for horizontal or vertical mounting. Two hole surface mount with mounting bushes supplied.	
Voltage	12V DC	
Power Consumption	Stop/Rear turn: <8W Tail: 2W	
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	180mm cable terminated with a Deutsch connector (part number DTM04-3P)	
Approval Markings	SAE S2 T2 I6 99 DOT	







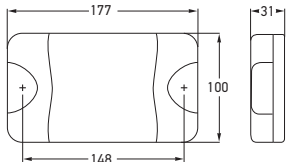
**DuraLED Stop/Tail/Rear Turn Signal Lamp with Deutsch Connector - 12 Volt**

Durable rear lamps for trucks, buses, caravans and trailers, featuring polycarbonate lens and low power consumption. The lamps are fully sealed against dust and moisture.



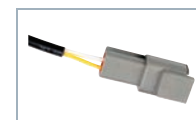
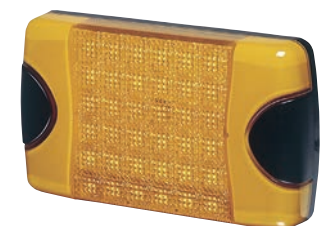
Deutsch connector

SAE COMPLIANT LED LAMPS

     		
<b>Part Number</b>	<b>2BA 959 070-331</b>	<b>2BA 959 070-337 (Pack of 12)</b>
Mounting	Suitable for horizontal or vertical mounting. Two hole surface mount with mounting bushes supplied.	
Voltage	12V DC	
Power Consumption	<8W	
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	180mm cable terminated with a Deutsch connector (part number DTM04-2P)	
Approval Markings	SAE I6 99 DOT	

**DuraLED Rear Turn Signal Lamp with Deutsch Connector - 12 Volt**

Durable rear lamps for trucks, buses, caravans and trailers, featuring polycarbonate lens and low power consumption. The lamps are fully sealed against dust and moisture.



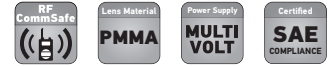
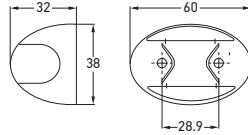
Deutsch connector

**DuraLED Surface Mount  
Side Marker, Clearance and  
Identification Lamp**

Surface mount side marker, clearance and identification lamp with clear, high impact acrylic lens. Pack of 16 lamps.



2PS 959 660-407



<b>Part Number</b>	<b>2PS 959 660-207</b>	<b>AMBER</b>
	<b>2PS 959 660-407</b>	<b>RED</b>
<b>Mounting</b>	Suitable for horizontal mounting only.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltage from 8 to 28 volts.	
<b>Power Consumption</b>	<1W	
<b>Protection</b>	Reverse polarity protection. IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
<b>Cable Length</b>	Pre-wired with 500mm of sheathed multi-core cable.	
<b>Approval Markings</b>	SAE P2 P3 99 DOT	
<b>Spare Parts</b>	9BG 959 565-007	Black shroud
	9BG 959 565-017	White shroud
	9BG 959 565-037	Red shroud
	9BG 959 565-047	Yellow shroud
	9BG 959 565-057	Green shroud
	9BG 959 565-067	Blue shroud
	9BG 959 565-077	Amber shroud
	9BG 959 565-407	Chrome plated shroud

**Coloured shroud - Pack of 4**

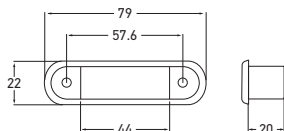


9BG 959 565-007 9BG 959 565-017 9BG 959 565-037 9BG 959 565-047 9BG 959 565-057 9BG 959 565-067 9BG 959 565-077



9BG 959 565-407

SAE COMPLIANT LED LAMPS



Part Number	12 VOLT	24 VOLT	
	2PF 959 653-007	2PF 959 653-107	CLEAR PMMA LENS
	2PF 959 653-207	2PF 959 653-307	AMBER PMMA LENS
	2PF 959 653-507		CLEAR PC LENS
	2PF 959 653-707		AMBER PC LENS
Mounting	Suitable for horizontal mounting.		
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 500mm of sheathed multi-core cable.		
Approval Markings	SAE P3 04 DOT		

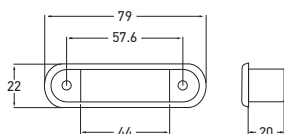
LED Front Clearance Side Marker and Identification Lamp

Recess mount, amber, front clearance side marker and identification lamp featuring an amber or clear lens in either high impact acrylic, or polycarbonate. Lamps are fully sealed against dust and moisture ingress. Pack of 30 lamps.



2PF 959 653-207

SAE COMPLIANT LED LAMPS



Part Number	12 VOLT	24 VOLT	
	2XA 959 657-007	2XA 959 657-107	CLEAR LENS
	2XA 959 657-207	2XA 959 657-307	RED LENS
Mounting	Suitable for horizontal mounting.		
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 500mm of sheathed multi-core cable.		
Approval Markings	SAE P3 04 DOT		

LED Rear Clearance Side Marker and Identification Lamp

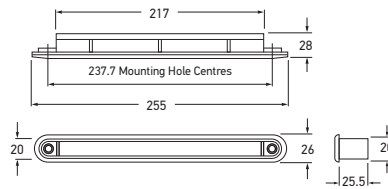
Recess mount, red, rear clearance side marker and identification lamp featuring a red or clear lens in high impact acrylic. Lamps are fully sealed against dust and moisture ingress. Pack of 30 lamps.



2XA 959 657-207

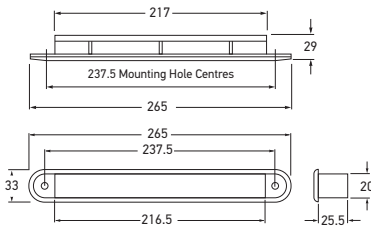
**LED Spoiler Centre High Mount Stop Lamp**

Spoiler or exterior mounted 12 LED centre high mount stop lamp, available with a red or clear lens. Pack of 10 lamps.



2DA 959 071-577

2DA 959 071-757 (Wide rim)

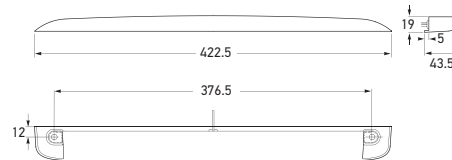


Wide rim diagram shown.

Part Number	12 VOLT	24 VOLT	CLEAR LENS
	2DA 959 071-077	2DA 959 071-277	
2DA 959 071-577	2DA 959 071-777		RED LENS
	2DA 959 071-757 (Wide Rim)		
Mounting	Suitable for horizontal mounting only. Two hole 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.		
Approval Markings	E4 02 7547 SAE U3 97 DOT		
CCC marked versions are available upon request.			

**LED Spoiler Centre High Mount Stop Lamp - 12 Volt**

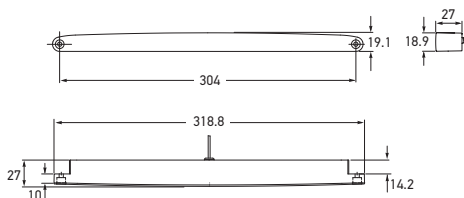
Spoiler mounted 12 LED centre high mount stop lamp, available with a red or clear high impact acrylic lens.



2DA 959 580-551

Part Number	2DA 959 580-151	RED LENS
	2DA 959 580-551	
Mounting	Suitable for horizontal mounting only.	
Voltage	12V DC	
Power Consumption	<3W	
Protection	Reverse polarity protection.	
Cable Length	Pre-wired with 3.5m of cable.	
Approval Markings	E4 02 7587 SAE U3 02 DOT	

SAE COMPLIANT LED LAMPS



**LED Spoiler Centre High Mount Stop Lamp - 12 Volt**

Spoiler mounted 12 LED centre high mount stop lamp, available with a red or clear polycarbonate lens.

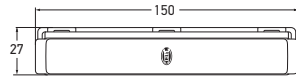


<b>Part Number</b>	<b>2DA 959 474-xx7</b>	<b>RED LENS</b>
Mounting	Suitable for horizontal mounting only.	
Voltage	12V DC	
Power Consumption	<3W	
Protection	Reverse polarity protection.	
Cable Length	Cable lengths available on request.	
Approval Markings	SAE U2 U3 98 DOT	
Please contact your local HELLA representative for further details about these lamps.		

SAE COMPLIANT LED LAMPS

**LED Daytime Running Lamps - 0°**

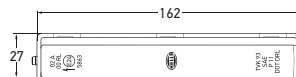
Forward facing signal lamps, designed to be mounted on vehicles with flat fronts, or on motorbikes. The lamps are an Easy-Fit installation, usually requiring no extra parts. Once the wiring is complete and the bracket is fitted, the LED lamp easily clips into place and installation is complete.



Part Number	LAMP MODULE		KIT	
		2PT 980 970-021	2PT 980 970-821	12 VOLT
		2PT 980 970-521	2PT 980 970-871	24 VOLT
Mounting	Suitable for horizontal mounting only.			
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	Single lamps are pre-wired with 2.5m of sheathed multi-core cable. Lamps supplied with kit are pre-wired with 2.8m of sheathed multi-core cable.			
Spare Parts	8HG 980 875-101 5DF 980 816-051 5DF 980 816-551	Brackets (LH/RH) LED DRL/PO Control Unit (12 Volt) LED DRL/PO Control Unit (24 Volt)		
Approval Markings	E24 5875	SAE P 14 DOT DRL		
Kit Contents	2PT 980 970-821/...-871 2 x LED daytime running lamps 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet 10 x Cable ties 4 x Accessory cable looms			

**LED Daytime Running Lamps - 15°**

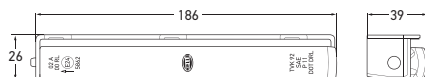
A lens angle of 15 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high impact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



Part Number	LAMP MODULE		KIT	
		2PT 980 860-001	2PT 980 860-801	12 VOLT
		2PT 980 860-501	2PT 980 860-851	24 VOLT
Mounting	Suitable for horizontal mounting only.			
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	Single lamps are pre-wired with 2.5m of sheathed multi-core cable. Lamps supplied with kit are pre-wired with 2.8m of sheathed multi-core cable.			
Spare Parts	8HG 980 864-101 5DF 980 816-001 5DF 980 816-501	Brackets (LH/RH) LED DRL/PO Control Unit (12 Volt) LED DRL/PO Control Unit (24 Volt)		
Approval Markings	E24 5863	SAE P 11 DOT DRL		
Kit Contents	2PT 980 860-801/...-851 2 x LED daytime running lamps 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet 10 x Cable ties 4 x Accessory cable looms			



SAE COMPLIANT LED LAMPS



Part Number	LAMP MODULE	KIT	
		2PT 980 850-001	2PT 980 850-801
	2PT 980 850-501	2PT 980 850-851	24 VOLT
Mounting	Suitable for horizontal mounting only.		
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	Single lamps are pre-wired with 2.5m of sheathed multi-core cable. Lamps supplied with kit are pre-wired with 2.8m of sheathed multi-core cable.		
Spare Parts	8HG 980 854-101 5DF 980 816-001 5DF 980 816-501	Brackets (LH/RH) LED DRL/PO Control Unit (12 Volt) LED DRL/PO Control Unit (24 Volt)	
Approval Markings	E24 5862	SAE P 11 DOT DRL	
Kit Contents	2PT 980 850-801/...-851 2 x LED daytime running lamps 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet 10 x Cable ties 4 x Accessory cable looms		

LED Daytime Running Lamps - 30°

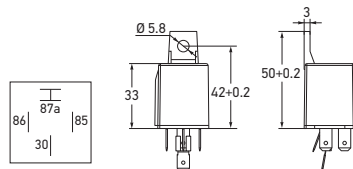
A lens angle of 30 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high impact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



SAE COMPLIANT LED LAMPS

LED DRL/PO Control Unit

A control unit that dims the light output of LED daytime running lamps to front position/park function level.



Part Number	12 VOLT	24 VOLT	
		5DF 980 816-001	5DF 980 816-501
	5DF 980 816-051	5DF 980 816-551	0°

Requirement One unit is required per pair of LED daytime running lamps.



RECOMMENDED INSTALLATION DIAGRAM FOR WIRING	WIRING SPECIFICATIONS										
	<table border="1"> <thead> <tr> <th>Terminal Number</th> <th>Connect to</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>Ignition (+)</td> </tr> <tr> <td>85</td> <td>Earth return (-)</td> </tr> <tr> <td>86</td> <td>Front position or headlamps (+)</td> </tr> <tr> <td>87A</td> <td>LED daytime running lamps (+)</td> </tr> </tbody> </table>	Terminal Number	Connect to	30	Ignition (+)	85	Earth return (-)	86	Front position or headlamps (+)	87A	LED daytime running lamps (+)
	Terminal Number	Connect to									
	30	Ignition (+)									
	85	Earth return (-)									
	86	Front position or headlamps (+)									
87A	LED daytime running lamps (+)										

Part Number	Function	SAE Regulation Number	SAE Compliance Number
<b>EuroLED Series</b>			
2SB 959 821-3xx	Stop/tail/turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J2261 Jan2002/SAE J2040 Mar2002	SAE S2 T2 I6 05 DOT
2ZR 959 820-2xx	Backup (reversing) lamp	SAE J593 Mar2000	SAE R 05 DOT
<b>110mm Round LED Lamps</b>			
2SB 959 931-8xx	Stop/tail/turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J2261 Jan2002/SAE J2040 Mar2002	SAE I6 S2 T2 I6 06 DOT
2BA 959 932-4xx	Turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J2261 Jan2002 and SAE J1395 Apr1985	SAE I6 08 DOT
2BA 959 932-8xx	Turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J2261 Jan2002 and SAE J1395 Apr1985	SAE I6 06 DOT
2ZR 959 930-8xx	Backup (reversing) lamp	SAE J593 Mar2000	SAE R 06 DOT
<b>DuraLED Series</b>			
2SB 959 060-30x	Stop/tail/turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J1398 May1985/SAE J585e/SAE J1395 Apr1985	SAE S2 T2 I6 99 DOT
2SB 959 060-33x	Stop/tail/turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J1398 May1985/SAE J585e/SAE J1395 Apr1985	SAE S2 T2 I6 99 DOT
2BA 959 070-30x	Turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J2261 Jan2002 and SAE J1395 Apr1985	SAE I6 99 DOT
2SB 959 070-33x	Turn signal lamp for use on motor vehicles 2032mm or more in overall width.	SAE J2261 Jan2002 and SAE J1395 Apr1985	SAE I6 99 DOT
<b>DuraLED Surface Mount Marker Lamps</b>			
2PS 959 660-xxx	Clearance, side marker and identification lamps for motor vehicles 2032mm or more in overall width.	SAE J2042 Jun1996	SAE P2 P3 99 DOT
<b>Recess Mount Front Marker Lamps</b>			
2PF 959 653-xxx	Clearance, side marker and identification lamps for motor vehicles 2032mm or more in overall width.	SAE J2042 May2003	SAE P3 04 DOT
2XA 959 657-xxx	Clearance, side marker and identification lamps for motor vehicles 2032mm or more in overall width.	SAE J2042 May2003	SAE P3 04 DOT
<b>1x12 Centre High Mount Stop Lamp</b>			
2DA 959 071-xxx	Centre high mount stop lamp for vehicles less than 2032mm in overall width.	SAE J186a	SAE U3 97 DOT
<b>470 Series Centre High Mount Stop Lamp</b>			
2DA 959 580-xxx	Centre high mount stop lamp for vehicles less than 2032mm in overall width.	SAE J186a	SAE U3 02 DOT
<b>470 Series Centre High Mount Stop Lamp</b>			
2DA 959 474-xxx	High mount stop lamp for vehicles 2032mm or more in overall width.	SAE J186a and SAE J1432 Oct1988	SAE U2 U3 98 DOT
<b>LED Daytime Running Lamps</b>			
2PT 980 970-xxx	Daytime running lamp and parking lamp	SAE J2087 Mar2006 and SAE J222	SAE P 14 DOT DRL
2PT 980 860-xxx	Daytime running lamp and parking lamp	SAE J2087 Mar2006 and SAE J222	SAE P 11 DOT DRL
2PT 980 850-xxx	Daytime running lamp and parking lamp	SAE J2087 Mar2006 and SAE J222	SAE P 11 DOT DRL

# Contents

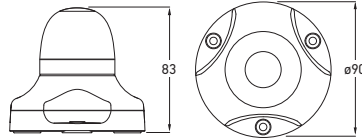
## LED Signal Warning Lamps

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**LED 360° Multi-flash Warning Lamp**

Multi-purpose LED 360° warning lamp with clear Grilamid® lens, available in four signal colours and white. This range of warning lamps has 10 programmable flash modes, and can be synchronised to flash alternately or in unison.



Part Number	2XD 980 911-001 (White)	2XD 980 911-201 (Green)	BLACK HOUSING	
	2XD 980 911-401 (Red)	2XD 980 911-601 (Amber)		
	2XD 980 911-701 (Blue)			
	2XD 980 911-011 (White)			WHITE HOUSING
	2XD 980 911-241 (Green)			GREEN HOUSING
	2XD 980 911-441 (Red)			RED HOUSING
	2XD 980 911-641 (Amber)			AMBER HOUSING
	2XD 980 911-741 (Blue)			BLUE HOUSING

Mounting	Suitable for upright mounting with three point mount.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	5W continuous (less in flashing modes)
Protection	Reverse polarity, spike and over voltage protection. IP 67 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	Ⓔ4 10R 04-2914

The above lamps are not ECE compliant.

LED SIGNAL WARNING LAMPS



2XD 980 911-201    2XD 980 911-401    2XD 980 911-601

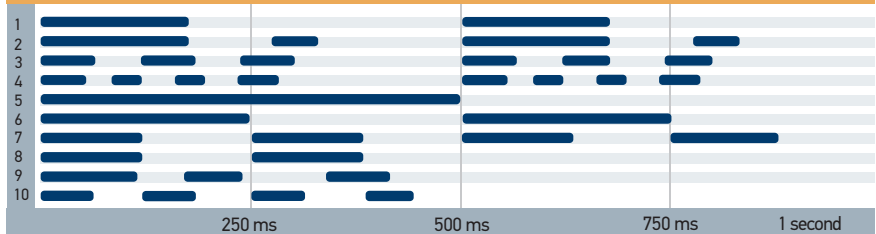


2XD 980 911-701    2XD 980 911-011    2XD 980 911-241



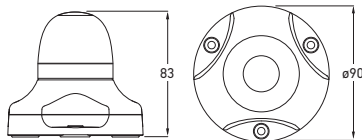
2XD 980 911-441    2XD 980 911-641    2XD 980 911-741

**SELECTABLE FLASH PATTERNS - HELLA MULTI-FLASH**



**LED 360° Warning Lamp**

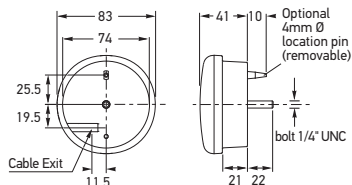
Multi-purpose LED 360° warning lamp available in four signal colours and white.



Part Number	2XA 980 910-041 (White)	2XA 980 910-241 (Green)	BLACK HOUSING	
	2XA 980 910-441 (Red)	2XA 980 910-641 (Amber)		
	2XA 980 910-741 (Blue)			
	2XA 980 910-051 (White)			WHITE HOUSING
	2XA 980 910-261 (Green)			GREEN HOUSING
	2XA 980 910-461 (Red)			RED HOUSING
	2XA 980 910-661 (Amber)			AMBER HOUSING
	2XA 980 910-761 (Blue)			BLUE HOUSING

Power Consumption	5W continuous.
Other specifications as per 2XD 980 911-xxx	

LED SIGNAL WARNING LAMPS



83mm Round LED Multi-flash Signal Lamp

83mm diameter round LED signal lamp with single bolt mount for emergency vehicles. This range of warning lamps has 10 programmable flash modes, and can be synchronised to flash alternately or in unison.

Part Number	2XD 959 011-401	2XD 959 011-407 (Pack of 10)	RED
	2XD 959 011-451	2XD 959 011-457 (Pack of 10)	AMBER
	2XD 959 011-601	2XD 959 011-607 (Pack of 10)	BLUE
	2XD 959 011-651	2XD 959 011-657 (Pack of 10)	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, spike and over voltage 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.
Approval Markings	10R 04-2904

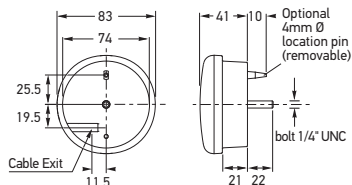
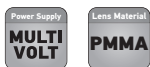
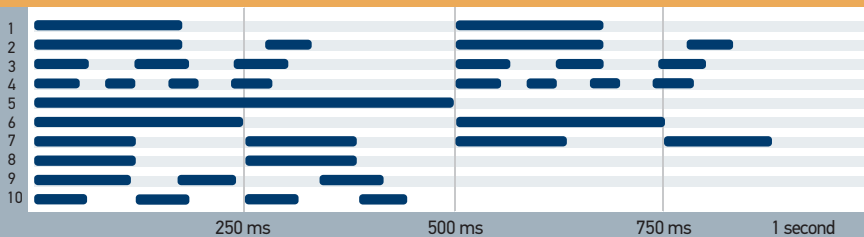
The above lamps are not ECE compliant



2XD 959 011-451    2XD 959 011-601    2XD 959 011-651

LED SIGNAL WARNING LAMPS

SELECTABLE FLASH PATTERNS - HELLA MULTI-FLASH



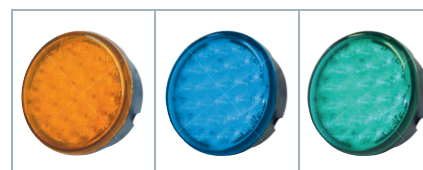
83mm Round LED Signal Lamp

83mm diameter round LED signal lamp with single bolt mount for emergency vehicles.

Part Number	2XD 959 010-021	2XD 959 010-027 (Pack of 10)	RED
	2XD 959 011-021	2XD 959 011-027 (Pack of 10)	AMBER
	2XD 959 010-711	2XD 959 010-717 (Pack of 10)	BLUE
	2XD 959 010-721	2XD 959 010-727 (Pack of 10)	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
Protection	Reverse polarity, spike and over voltage 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.
Approval Markings	10R 04-2741

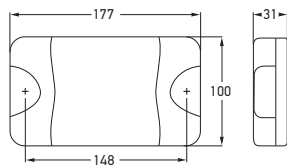
The above lamps are not ECE compliant



2XD 959 011-021    2XD 959 010-711    2XD 959 010-721

**DuraLED Multi-flash Signal Warning Lamp**

Multivolt warning lamp for emergency vehicles. This range of warning lamps has 10 programmable flash modes, and can be synchronised to flash alternately or in unison.



<b>Part Number</b>	2XD 959 037-011	RED
	2XD 959 037-111	AMBER
	2XD 959 037-611	BLUE
	2XD 959 037-811	GREEN
	2XD 959 037-911	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.
Approval Markings	E4 10R 04-2893 SAE 5595 Compliant. Class W-1 (red and amber versions)

The above lamps are not ECE compliant.

LED SIGNAL WARNING LAMPS



2XD 959 037-111

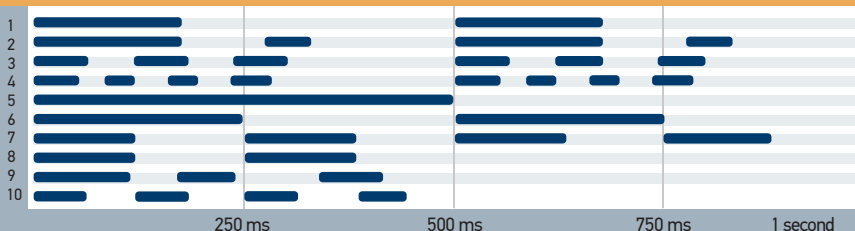
2XD 959 037-611



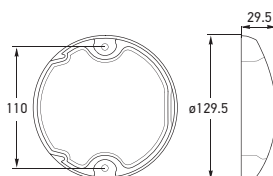
2XD 959 037-811

2XD 959 037-911

**SELECTABLE FLASH PATTERNS - HELLA MULTI-FLASH**



**LED SIGNAL WARNING LAMPS**



**EuroLED Signal Warning Lamp - 24 Volt**

Low profile signal warning 24 LED lamp featuring Ultra Wide Visibility Optic for significantly improved side visibility.

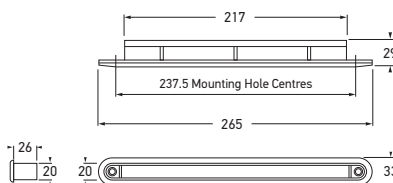
Part Number	2XD 959 020-811	RED
	2XD 959 021-811	AMBER
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	24V DC	
Power Consumption	5W	
Protection	Reverse polarity and Transient Spike Circuit protection. IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Approval Markings	E4 10R 04-2896	

The above lamps are not ECE compliant.



2XD 959 021-811

LED SIGNAL WARNING LAMPS



**LED Wide Rim Strip Lamp**

Covert wide rim strip LED signal warning lamps available in red and blue colour variants. Optic appears clear until illuminated.

Part Number	12 VOLT	24 VOLT	
	2XD 959 073-601	2XD 959 073-651	
2XD 959 073-701	2XD 959 073-751	RED	

Mounting: Two hole 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.

Includes gasket, screws and screw caps.



2XD 959 073-701





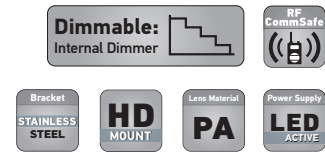
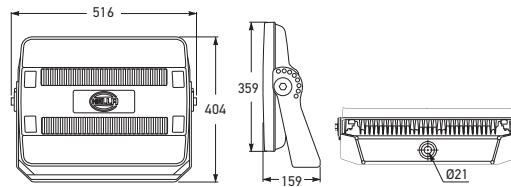
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**LED HypaLUME 48V DC  
RFCommSafe Flood Light**

The 48V DC RFCommSafe HypaLUME has been designed for applications where high performance LED lighting is required. 56 high power LEDs produce an output of some 28,000 lumens while only consuming 300 Watts at 48V DC. The lights have a colour temperature of 5700K to provide a work environment that is the optimal balance between fatigue avoidance and high alertness. High performance Grilamid lenses protect the interior of the lamp from impact and environmental damage. The premium aluminium housing is corrosion resistant with a non-stick and easy to clean surface coating. The built-in soft start feature eliminates a high in-rush current at start up.



<b>Part Number</b>	<b>1GJ 011 872-221</b>	<b>CLOSE RANGE</b>
	<b>1GJ 011 872-231</b>	<b>LONG RANGE</b>
	<b>1GJ 011 872-241</b>	<b>FLOOD</b>

Mounting	Upright or pendant.
Voltage	Optimum brightness at input voltages from 46 to 53 volts.
Power Consumption	300 Watt @ 48V DC input
Operating Temperature Range	-40°C to +50°C
Max. Light Output	28,000 lumen
Protection	Reverse polarity and voltage spike protection. IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning)
Input Voltage <39V DC	Lamp will shutdown
Input Voltage of 40 to 46V DC	The outer LEDs on each side of the lamp will be turned OFF to ensure that the remaining LEDs are still operating at target current.
Input Voltage of 53 to 55V DC	Light output will be limited to 70% output level to protect the lamp.
Input Voltage of 55 to 60V DC	Light output will be limited to 40% output level to protect the lamp.
Input Voltage >60V DC	Lamp will shutdown.
Tolerance to Generator Induced Voltage Ripple	A maximum peak to peak voltage of 6.2V DC. Generator must be adjusted so that the lowest point of the ripple is 45V DC.
Dimming Levels (Controlled through PIN 4)	Five light output levels: 100%, 70%, 40%, 20%, 10%
Soft Ramp-up/ Soft Ramp-down (Controlled through PIN 3)	The light output is increased in 5% steps. Each step takes 200 ms to complete (100% brightness in 4 seconds).
Temperature Protection	If the lamp temperature rises above 85°C, the light output level will reduce by 1 level. When the lamp temperature reduces below 80°C the light output level will increase to previous set level.
Connection	4 Pin Deutsch connector
Accessory	8KB 958 304-001 4 Pin Deutsch plug and 1m sheathed cable.
Approval Markings	CE  FC



Front view

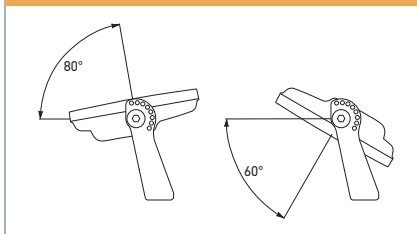
Side view



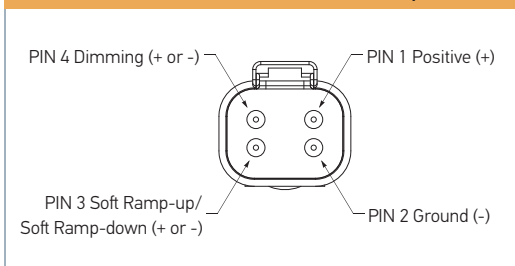
Rear view

Locking mechanism

**Mounting Angles**



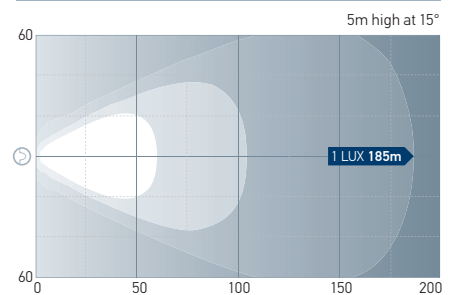
**Deutsch Connector (Viewed from back of lamp)**



P/N 8KB 958 304-001  
4 Pin Deutsch plug and 1m sheathed cable

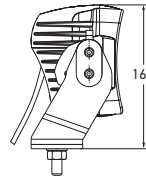
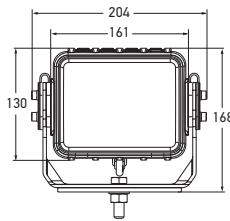
**BEAM PATTERNS**

**LED HypaLUME 48V DC - Close Range**



→ LED HypaLUME 48V DC Long Range and Extra Wide Beam Patterns continue over to the next page.

LED WORK LAMPS



AS3000 RfCommSafe Work Lamp - Heavy Duty

The AS3000 is a high output, compact and highly versatile heavy duty work lamp for use on mining machinery. A multi-adjustable bracket ensures accurate, stable aiming in high vibration environments. Option of three light patterns, long range, close range or flood.

Part Number	12 VOLT		24 VOLT	
	1GA 958 060-401		1GA 958 060-011	CLOSE RANGE
	1GA 958 060-501		1GA 958 060-111	LONG RANGE
	1GA 958 060-601		1GA 958 060-201	FLOOD

Mounting	Upright or pendant.		
Power Consumption	12V	24V	
	High intensity mode:	45W	45W
	Low intensity mode:	20W	12W
Max. Light Output	3000 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	Pre-wired with 2.5m of sheathed multi-core cable		
Approval Markings	CE		



1GA 958 060-501

1GA 958 060-601

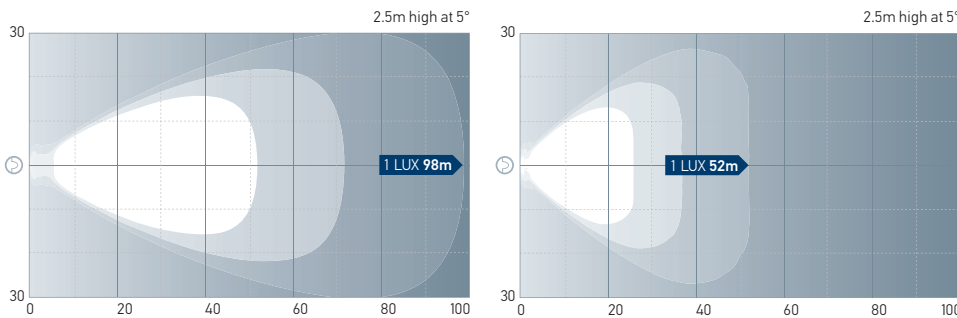


Rear view

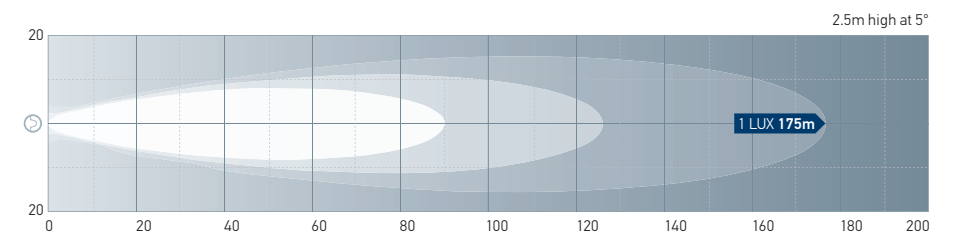
LED WORK LAMPS

BEAM PATTERNS

AS3000 - Close Range	AS3000 - Flood
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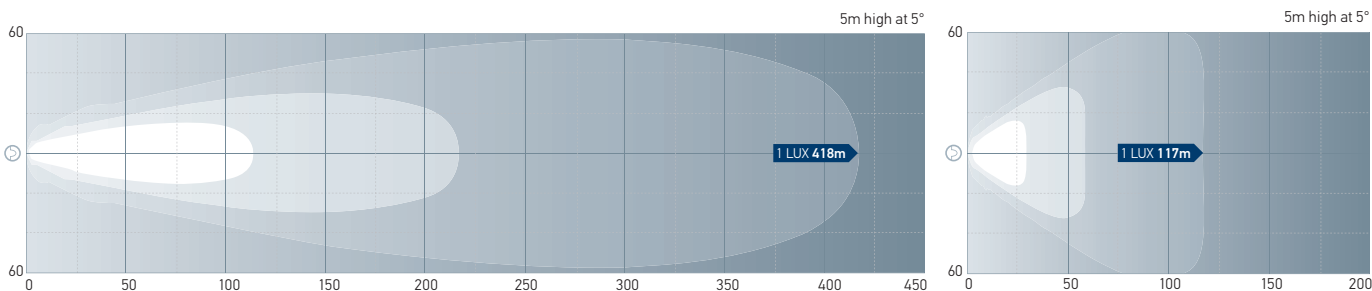


AS3000 - Long Range



BEAM PATTERNS

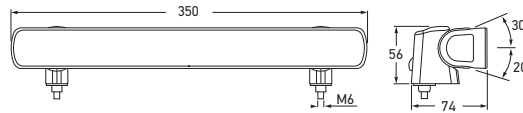
LED HypaLUME 48V DC - Long Range	LED HypaLUME 48V DC - Extra Wide
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→ LED HypaLUME 48V DC Close Range Beam Pattern is displayed on previous page.

LED BL350 Work Lamp

The BL350 LED Work Lamp incorporates the latest technology to offer a powerful, durable lighting solution for a multitude of applications. Featuring energy efficient Multivolt technology, this Work Lamp will appeal to applications where energy efficiency and reliability are a must. These lamps offer a formidable net light output of 2200 lumens. Designed with Fit and Forget durability in mind, the BL350 LED Work Lamp features a highly impact-resistant lens made of Grilamid®, a crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as a technologically advanced thermally conductive non-metal housing.



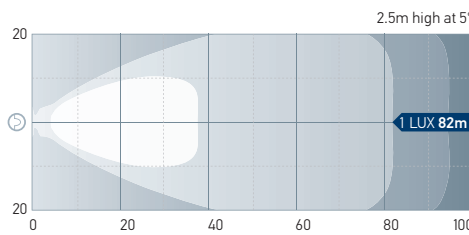
Part Number	1GJ 958 040-551	CLOSE RANGE
	1GJ 958 040-601	LONG RANGE
	1GJ 958 040-501	FLOOD
Mounting	Upright or pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	High intensity mode: 25W Low intensity mode: 5W	
Max. Light Output	2200 lumen	
Protection	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.	
Approval Markings	CE	



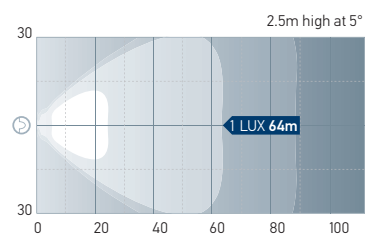
Mounting brackets allow rotation of work lamp.

BEAM PATTERNS

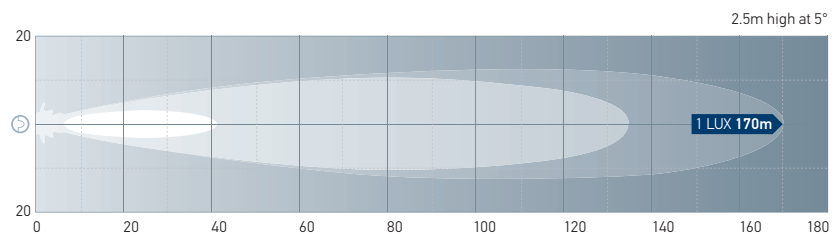
Close Range



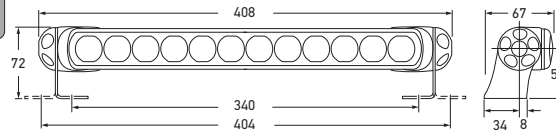
Flood



Long Range



LED WORK LAMPS



Part Number	BLACK BASE	WHITE BASE	
	1GJ 958 084-101	1GJ 958 084-111	CLOSE RANGE
	1GJ 958 084-201	1GJ 958 084-211	LONG RANGE
	1GJ 958 084-001	1GJ 958 084-011	FLOOD

Mounting	Upright or pendant		
Voltage	90 to 305V AC		
Power Consumption	Maximum 26W Lamp and LED Driver 0.10A @ 240V AC		
Max. Light Output	2200 lumen		
Operating Temperature	LED Driver:	-35 to 70°C	
	LED Lamp:	-40 to 40°C	
LED Driver Protection	Short circuit, over current, over voltage, over temperature. IP 67 (Protection against dust and temporary water immersion)		
LED Lamp Protection	IP 66 (Protection against dust and high pressure water jets) IP 67 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2m of sheathed multi-core cable between LED lamp and LED Driver, 0.3m of sheathed multi-core cable from LED Driver.		
Approval Markings	CE		

LED BL350 Work Lamp - 240V AC

The lamp features a revolutionary ceramic based, non corrosive, thermally conductive housing and a high performance impact resistance Grilamid® lens. With those properties, the work lamp is ideal for rough outdoor applications, e.g. pool areas, seaside applications, alley ways, car parks etc.

The waterproof, maintenance free and hermetically sealed lamp is also dimmable, either by 0-10V DC dimming control, resistance or pulse width modulation (not supplied). A flexible, adjustable mounting system ensures easy installation to suit a wide range of applications.



P/N 1GJ 958 084-111

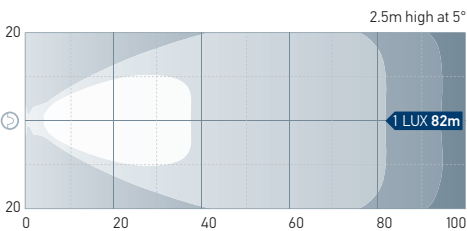


LED Driver

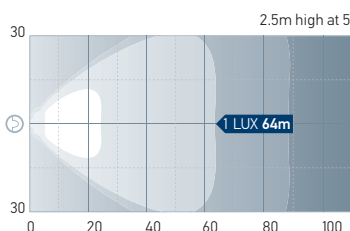
LED WORK LAMPS

BEAM PATTERNS

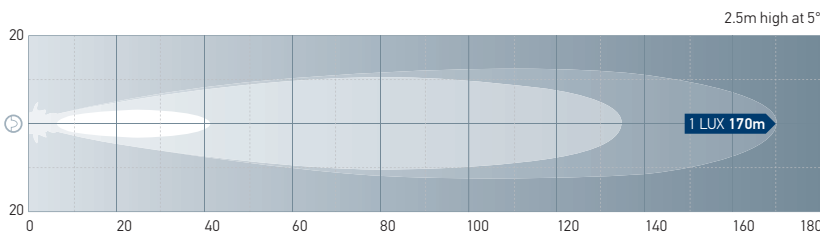
Close Range



Flood

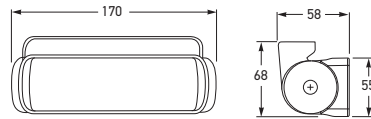


Long Range



**DuraLED WL1300 Work Lamp**

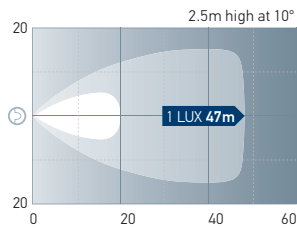
The WL1300 LED Work Lamp incorporates the latest technology to offer a powerful, durable lighting solution for a multitude of applications. Featuring an integrated dual intensity light output circuit, a high level of spike protection, and energy efficient Multivolt technology, this work lamp will appeal to applications where energy efficiency and reliability are a must.



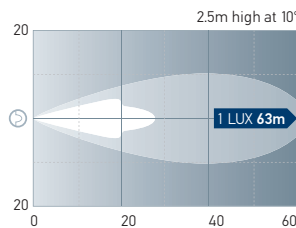
<b>Part Number</b>	<b>1GA 980 740-321</b>	<b>CLOSE RANGE</b>
	<b>1GA 980 740-221</b>	<b>LONG RANGE</b>
	<b>1GA 980 740-021</b>	<b>FLOOD</b>
<b>Mounting</b>	Upright or pendant.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	High intensity mode: 18W Low intensity mode: 2W	
<b>Max. Light Output</b>	1300 lumen	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	CE	

**BEAM PATTERNS**

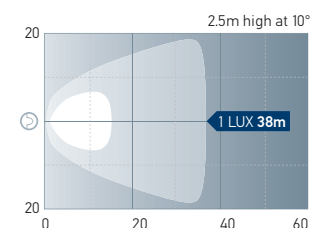
**WL1300 - Close Range**



**WL1300 - Long Range**



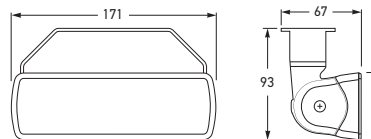
**WL1300 - Flood**



LED WORK LAMPS

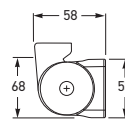
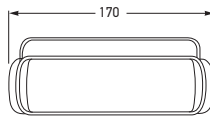
**DuraLED WL1300 RFCommSafe Work Lamp - 24 Volt**

LED work lamp featuring 14 high performance LEDs will appeal for applications where energy efficiency and reliability is a must. Features a tough, chemical resistant lens made from Grilamid®, 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.



<b>Part Number</b>	<b>1GA 980 740-601</b>	<b>CLOSE RANGE</b>
	<b>1GA 980 740-251</b>	<b>LONG RANGE</b>
	<b>1GA 980 740-511</b>	<b>FLOOD</b>
<b>Mounting</b>	Upright or pendant.	
<b>Voltage</b>	24V DC	
<b>Power Consumption</b>	14W	
<b>Max. Light Output</b>	900 lumen	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	CE	

LED WORK LAMPS



	WHITE	WARM WHITE	
Part Number	1GA 980 950-031	1GA 980 950-041	CLOSE RANGE
	1GA 980 950-231	1GA 980 950-331	LONG RANGE
Mounting	Upright or pendant.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	High intensity mode: 12W Low intensity mode: 2W		
Max. Light Output	White: 750 lumen Warm white: 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.		
Approval Markings	CE		

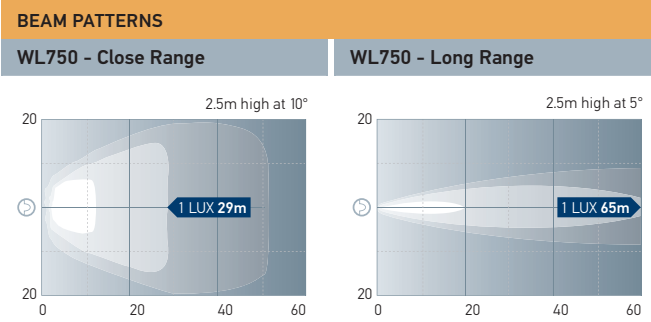
DuraLED WL750 Work Lamp

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.

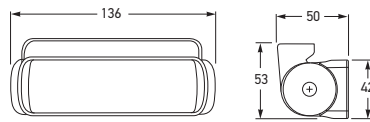



www.landreiziger.nl

LED WORK LAMPS

**DuraLED WL550 Work Lamp**

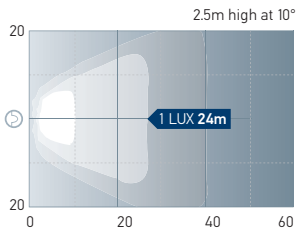
LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant Grilamid® lens. Option of three light patterns, flood, close range or long range.



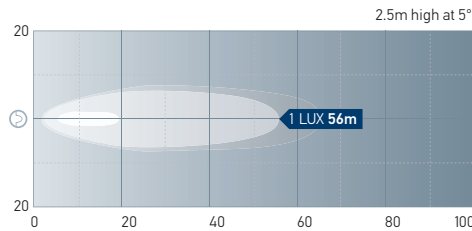
<b>Part Number</b>	<b>1GA 980 573-101</b>	<b>CLOSE RANGE</b>
	<b>1GA 980 573-301</b>	<b>LONG RANGE</b>
	<b>1GA 980 573-001</b>	<b>FLOOD</b>
<b>Mounting</b>	Upright or pendant.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	High intensity mode: 7W Low intensity mode: 1W	
<b>Max. Light Output</b>	550 lumen	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	CE 	

**BEAM PATTERNS**

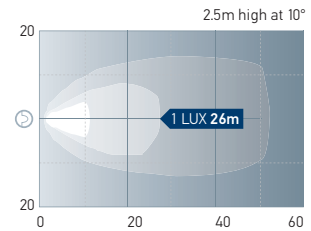
**WL550 - Close Range**



**WL550 - Long Range**

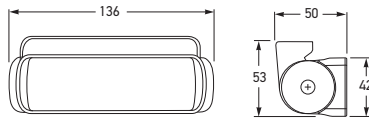


**WL550 - Flood**





LED WORK LAMPS



	BLACK HOUSING	WHITE HOUSING	
Part Number	1GA 980 670-331	1GA 980 670-411	CLOSE RANGE
	1GA 980 670-231	1GA 980 670-251	LONG RANGE
Mounting	Upright or pendant.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	3W		
Max. Light Output	200 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	Pre-wired with 2.5m of cable.		
Approval Markings	CE		

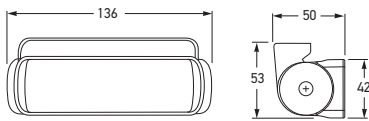
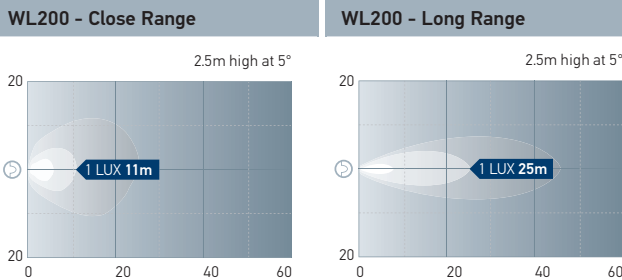
DuraLED WL200 Work Lamp

LED universal work lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant, and adjusted vertically up or down. 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. Option of two light patterns, long range or close range.



1GA 980 670-411

BEAM PATTERNS



	12 VOLT	24 VOLT	
Part Number	1GA 980 670-382	1GA 980 670-622	CLOSE RANGE
	Mounting Upright or pendant.		
Power Consumption	4W		
Max. Light Output	150 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	Pre-wired with 2.5m of sheathed multi-core cable.		
Approval Markings	CE		

DuraLED WL200 RFCommSafe 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. Hermetically sealed against dust and moisture. Featuring a tough, chemical resistant Grilamid® lens.



LED WORK LAMPS



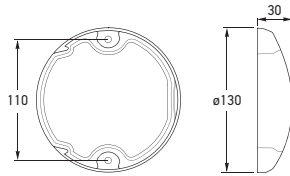
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**EuroLED Interior Touch Lamps**

White single LED interior lamps with touch switching. Multiple lamps can be switched externally. White/red version features night light and dimmer functions. White version features momentary ON/OFF switch control. No dimming.



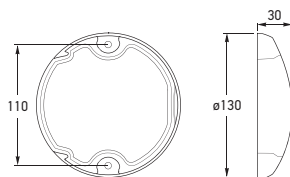
	BLACK SHROUD	WHITE SHROUD	
Part Number	2JA 959 950-011	2JA 959 950-021	WHITE/RED
	2JA 959 950-551	2JA 959 950-561	WHITE

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 dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Approval Markings	E4 10R 04-2894 CE		



**EuroLED Interior Lamp**

EuroLED single LED interior lamp with either white, warm white, green, blue, red or amber LED. Provides ultra long service life and is shock and vibration proof.



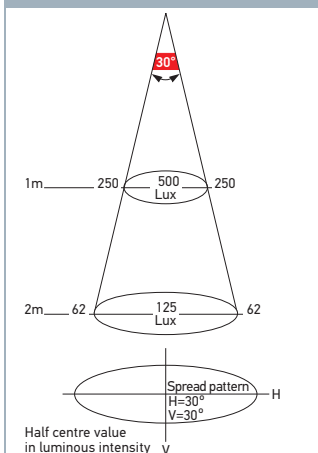
	BLACK SHROUD	WHITE SHROUD		
Part Number	2JA 959 820-501	2JA 959 820-551	WHITE	CLEAR LENS
	2JA 959 820-311	2JA 959 820-331	WARM WHITE	CLEAR LENS
	2JA 959 820-401	2JA 959 820-421	GREEN	GREEN LENS
	2JA 959 820-701	2JA 959 820-721	BLUE	BLUE LENS
	2JA 959 822-501	2JA 959 822-521	AMBER	AMBER LENS
	2JA 959 821-501	2JA 959 821-521	RED	RED LENS

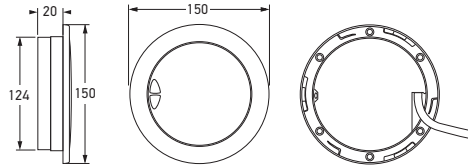
Mounting	Two hole surface mount with mounting bushes supplied.			
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.			
Power Consumption	4W			
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.			
Approval Markings	E4 10R 04-2894 CE			



**ILLUMINATION CHART**

**EuroLED White**



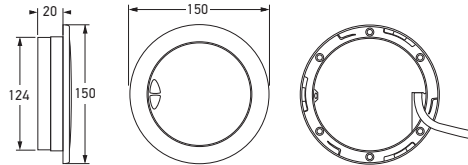
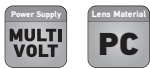
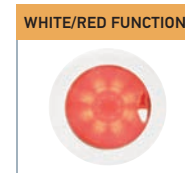


Part Number	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 630-001		2JA 980 630-011
2JA 980 630-101		2JA 980 630-111	WARM WHITE/RED

Mounting	Recess mount, 124mm hole.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and spike protected. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Approval Markings	CE

### 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.



Part Number	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 630-501		2JA 980 630-511
2JA 980 630-601		2JA 980 630-611	WARM WHITE

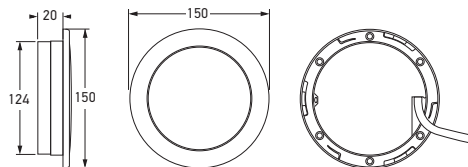
Mounting	Recess mount, 124mm hole.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and spike protected. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Approval Markings	CE

### EuroLED Touch 150 Downlights - Single Colour

Single colour EuroLED touch lamps with momentary switch control. Touch the white pad for ON, touch the black pad for OFF. No dimming.



2JA 980 630-601



Part Number	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 980 631-501		2JA 980 631-511
2JA 980 631-601		2JA 980 631-611	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 spike protected. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Approval Markings	CE

### EuroLED 150 Downlights

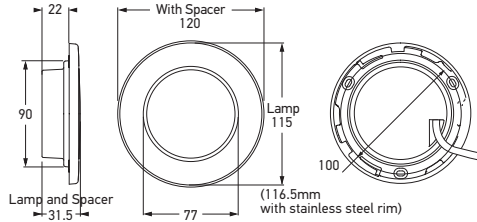
Efficient, state-of-the art LED lamps offering advanced technology for durable and power saving interior and exterior installations. No switching or dimming.



2JA 980 631-601

**EuroLED 115 Downlights**

Round LED high intensity downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rims to suit.



**Dimmable:** PWM 10-100%

Lens Material: **PMMA**

Power Supply: **MULTI VOLT**

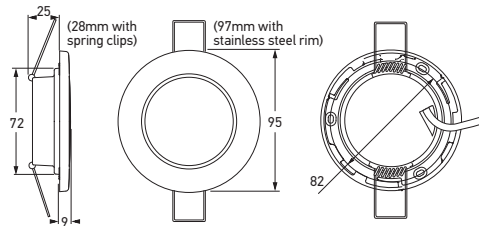


2JA 980 820-101    Sealed cable entry    2JA 980 828-111

Part Number	WHITE SPACER			
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM		
	2JA 980 820-001	2JA 980 820-011		WHITE
2JA 980 820-101	2JA 980 820-111	WARM WHITE		
Part Number	WHITE SPACER WITH SWITCH			
	2JA 980 828-001	2JA 980 828-011		WHITE
	2JA 980 828-101	2JA 980 828-111		WARM WHITE
Mounting	Surface mount via spacer. Recess mount, 90mm hole.			
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts.			
Power Consumption	4.5W			
Protection	Reverse polarity and spike protected. Sealed against dust and water ingress.			
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.			
Approval Markings	CE			

**EuroLED 95 Downlights**

Round LED high intensity downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rims to suit.



**Dimmable:** PWM 10-100%

Lens Material: **PMMA**

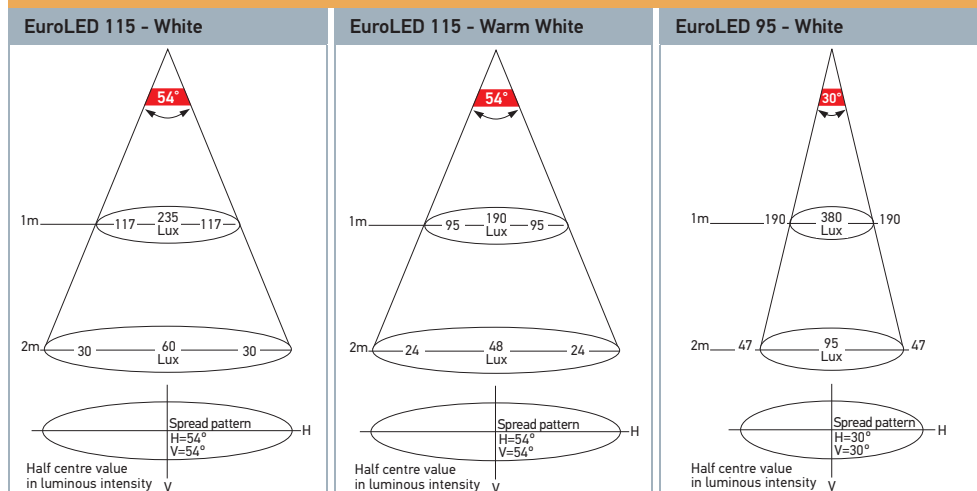
Power Supply: **MULTI VOLT**



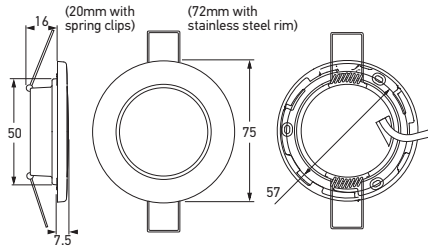
2JA 980 940-111    2JA 980 940-311

Part Number	SCREW MOUNT			
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM		
	2JA 980 940-001	2JA 980 940-011		WHITE
2JA 980 940-101	2JA 980 940-111	WARM WHITE		
Part Number	SPRING CLIP MOUNT			
	2JA 980 940-201	2JA 980 940-211		WHITE
	2JA 980 940-301	2JA 980 940-311		WARM WHITE
Mounting	Recess mount, 72mm hole. Screw or spring clip options.			
Power Consumption	4W			
Other specifications as per P/N 2JA 958 82x-xxx.				

**ILLUMINATION CHARTS (CONTINUED OVER THE PAGE)**



LED INTERIOR LIGHTING



**EuroLED 75 Downlights - Screw Mount**

Round LED high intensity downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rims to suit.

Part Number	SCREW MOUNT - 12 VOLT		
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 958 110-011	2JA 958 110-021	
2JA 958 109-011	2JA 958 109-021	WARM WHITE	
Part Number	SCREW MOUNT - 24 VOLT		
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 958 110-111	2JA 958 110-121	
2JA 958 109-111	2JA 958 109-121	WARM WHITE	
Mounting	Recess mount, 72mm hole.		
Voltage	12V DC or 24V DC		
Power Consumption	<3W		
Protection	IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)		
Cable Length	Pre-wired with 120mm of cable		
Approval Markings	C €		



2JA 958 109-021



Part Number	SPRING CLIP MOUNT - 12 VOLT		
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 958 110-511	2JA 958 110-521	
2JA 958 109-511	2JA 958 109-521	WARM WHITE	
Part Number	SPRING CLIP MOUNT - 24 VOLT		
	WHITE PLASTIC RIM	POLISHED STAINLESS STEEL RIM	
	2JA 958 110-611	2JA 958 110-621	
2JA 958 109-611	2JA 958 109-621	WARM WHITE	

Specifications as per P/N 2JA 958 1xx-xxx. Diagram shown.

**EuroLED 75 Downlights - Spring Clip Mount**

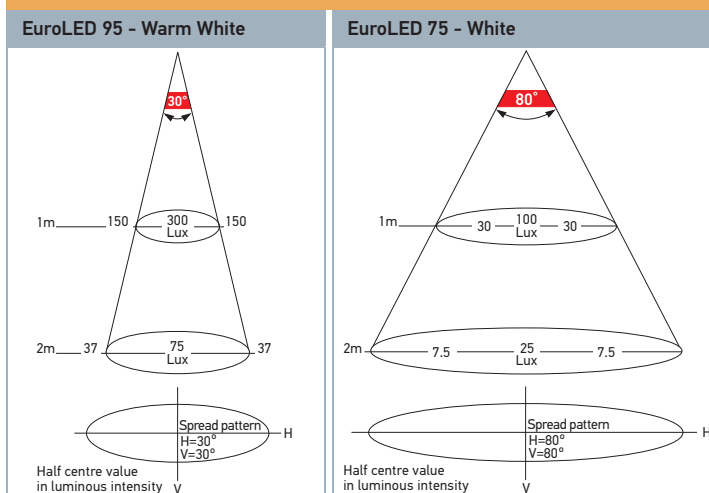
Round LED high intensity downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rims to suit.



2JA 958 109-521

LED INTERIOR LIGHTING

ILLUMINATION CHARTS



**LED Interior/Exterior Awning Strip Lamp - Surface Mount - 15° Spread**

LED awning lamp with an ultra slim profile of only 11mm, a heavy duty Grilamid® lens and low power consumption of less than 3W. It comes complete with white as well as charcoal end caps and can be accessorised with a matching 45° mounting bracket to angle the beam further. Combining state of the art technology with sophisticated looks, this new low profile LED Awning Lamp is a lighting solution which will find many applications. The precision optic, with a 15° downwards spread pattern, is designed to cause minimum glare.



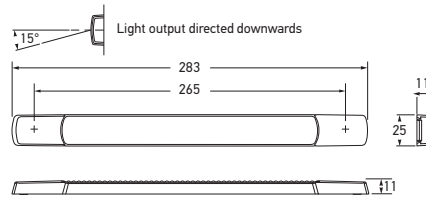
2JA 980 879-201



8HG 958 000-021



8HG 958 000-011

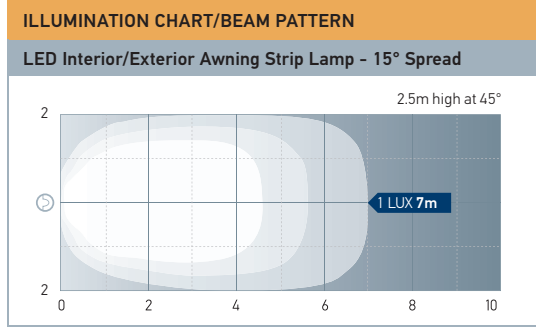


**Dimmable:**  
Analog DC Input



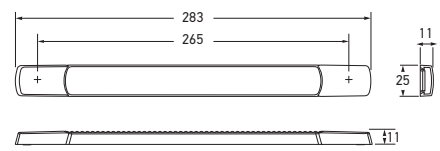
	12 VOLT	24 VOLT	
<b>Part Number</b>	2JA 980 879-011	2JA 980 879-111	WHITE
	2JA 980 879-201	2JA 980 879-301	WARM WHITE

Mounting	Two hole surface mount.		
Voltage	12V DC or 24V DC		
Power Consumption	<3W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of of sheathed multi-core cable.		
Spare Parts	8HG 958 000-011 8HG 958 000-021 9HD 980 885-008 9HD 980 885-018 9HD 980 885-108	Mounting bracket 45° - White Mounting bracket 45° - Charcoal White screw caps Charcoal screw caps Chrome plated screw caps	



**LED Interior/Exterior Strip Lamp - Surface Mount**

These LED interior surface mount strip lamps feature a shallow 11mm profile, completely sealed housings and class leading efficiency. The range is ideal for a wide range of interior or exterior applications



**Dimmable:**  
Analog DC Input

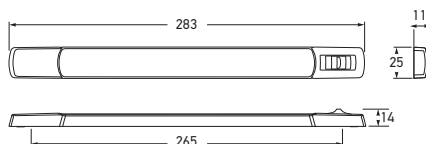


	12 VOLT	24 VOLT	
<b>Part Number</b>	2JA 958 124-001	2JA 958 124-401	WHITE
	2JA 958 124-101	2JA 958 124-501	WARM WHITE

Mounting	Two hole surface mount.		
Voltage	12V DC or 24V DC		
Power Consumption	<3W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)		
Cable Length	Pre-wired with 0.5m of of sheathed multi-core cable.		



LED INTERIOR LIGHTING

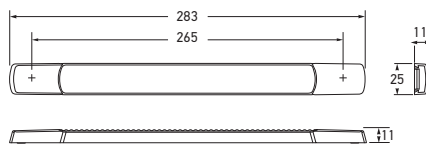


Part Number	12 VOLT	24 VOLT	
	2JA 958 123-001	2JA 958 123-401	WHITE
	2JA 958 123-101	2JA 958 123-501	WARM WHITE
	2JA 958 121-011	2JA 958 121-411	WHITE/BLUE
	2JA 958 121-001	2JA 958 121-401	WHITE/RED
	2JA 958 121-111	2JA 958 121-511	WARM WHITE/BLUE
	2JA 958 121-101	2JA 958 121-501	WARM WHITE/RED

Mounting	Surface mount.		
Voltage	12V DC or 24V DC		
Power Consumption	White function: <3W	Colour function: <1W	
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 of sheathed multi-core cable.		
Spare Parts	8HG 958 000-011	Mounting bracket 45° - White	

LED Interior/Exterior Strip Lamp with Sealed Switch - Surface Mount

These LED interior surface mount strip lamps with sealed waterproof switch feature a shallow 11mm profile, completely sealed housings and class leading efficiency. The range is ideal for a wide range of interior or exterior applications.

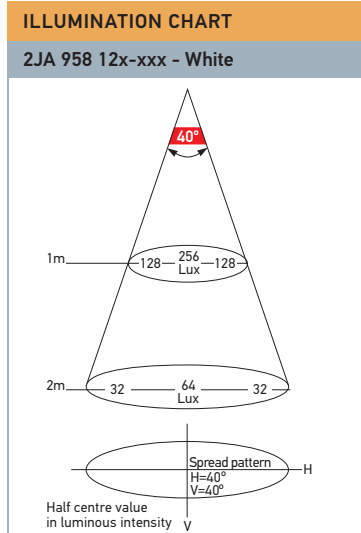


Part Number	12 VOLT	24 VOLT	
	2JA 980 881-012	2JA 980 881-112	WHITE
	2JA 980 881-212	2JA 980 881-312	WARM WHITE
	2JA 980 881-402	2JA 980 881-502	BLUE
	2JA 980 881-602	2JA 980 881-702	RED
	2JA 980 881-802	2JA 980 881-902	GREEN

Power Consumption	<2W
Other specifications as per P/N 2JA 958 124-001 on previous page.	

LED Courtesy Strip Lamp - Surface Mount

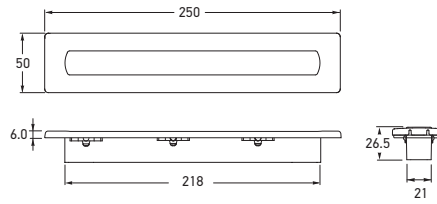
These LED courtesy surface mount strip lamps feature a shallow 11mm profile, completely sealed housings and are available in white, warm white, blue, red & green colour variants.



LED INTERIOR LIGHTING

**White LED Interior Strip Lamp**

High brightness white LED lamp with clear lens and attractive stainless steel cover. Stainless steel bezel features a unique internal tab lock for secure attachment and no visible fastenings.



**Dimmable:**  
Analog DC Input



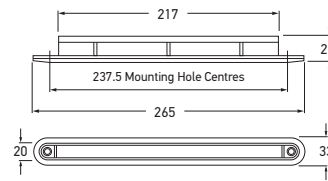
2JA 980 681-111

Shown expanded

	12 VOLT	24 VOLT	
Part Number	2JA 980 681-011	2JA 980 681-511	WHITE
	2JA 980 681-111	2JA 980 681-611	WARM WHITE
Mounting	Two hole 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.		

**White LED Interior Strip Lamp**

High brightness white LED lamp with clear lens. Ideal for steps, interior or exterior courtesy lighting and storage areas.



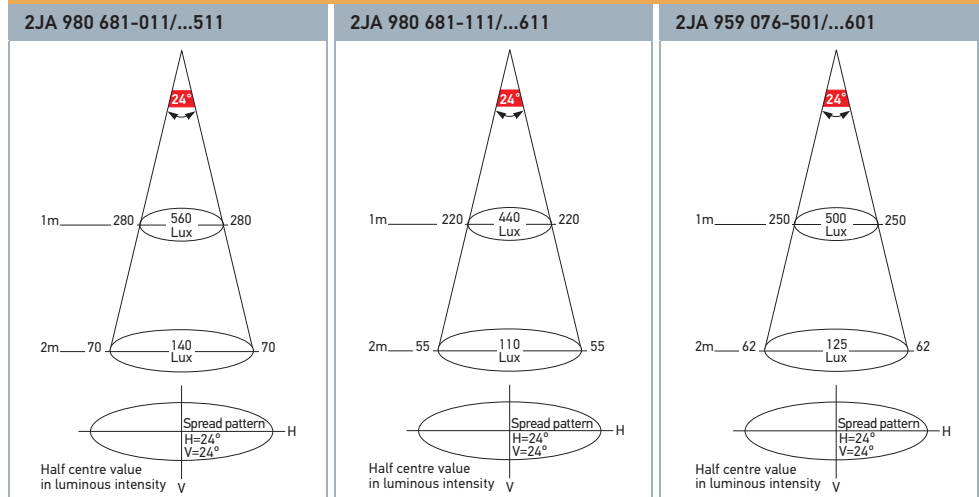
**Dimmable:**  
Analog DC Input

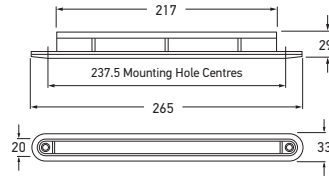


Part Number	2JA 959 076-501	2JA 959 076-507 (Pack of 10)	12 VOLT
		2JA 959 076-601	2JA 959 076-607 (Pack of 10)
Mounting	Two hole recess mount.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		

LED INTERIOR LIGHTING

**ILLUMINATION CHARTS**





**White LED Courtesy Strip Lamp**

White LED interior strip lamp with clear lens. Ideal for steps, interior or exterior courtyes lighting and storage areas.

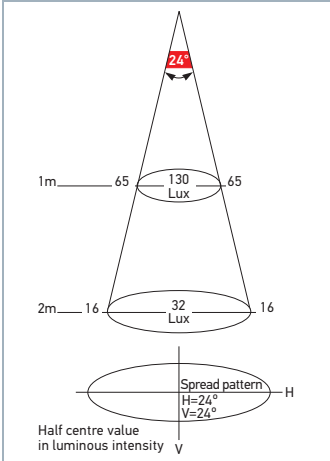


Part Number	2JA 959 073-001	2JA 959 073-007 (Pack of 10)	12 VOLT
	2JA 959 073-201	2JA 959 073-207 (Pack of 10)	24 VOLT
Mounting	Two hole recess mount.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		

See page 69 for red and blue colour variants.

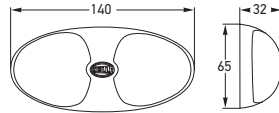
**ILLUMINATION CHART**

2JA 959 073-001/...201



**DuraLED 12 White LED Wide Spread Lamp - White Lens**

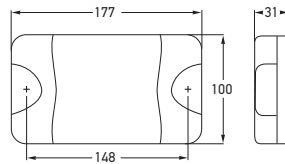
White high brightness LED lamp. Exceptional light output, incorporating high efficacy LEDs. Low power consumption (3 watts) and low heat.



<b>Part Number</b>	<b>2JA 959 700-102</b>
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). Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Approval Markings	Ⓔ 10R 04-2743 ⒸⒺ

**DuraLED 20 White LED Wide Spread Lamp - White Lens**

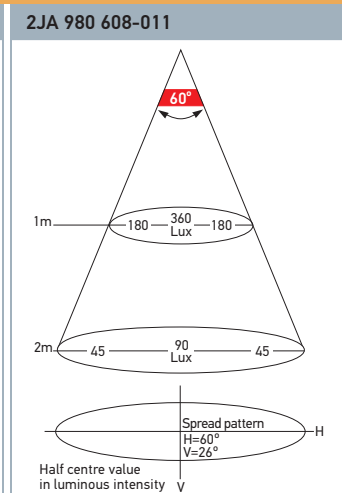
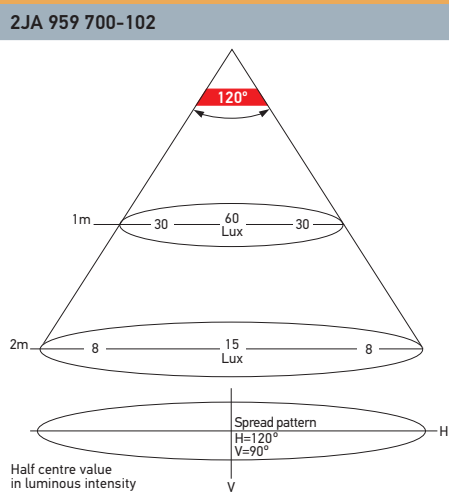
White high brightness LED lamp with exceptional light output. Incorporates high efficacy electronics and LEDs resulting in low power consumption (<4 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.

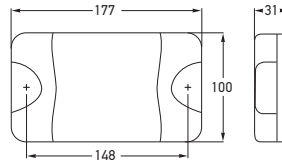
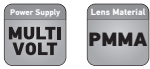


<b>Part Number</b>	<b>2JA 980 608-011</b>
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	<4W
Protection	Reverse polarity and spike protected. IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Approval Markings	ⒸⒺ

LED INTERIOR LIGHTING

**ILLUMINATION CHARTS**





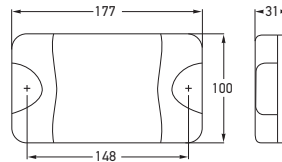
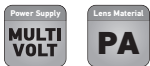
**DuraLED 36 White LED Lamp**

White LED interior lamp with either a diffusion or clear acrylic lens. The lamps are shock and vibration proof and are fully sealed against dust and moisture ingress.

Part Number	CLEAR LENS	DIFFUSION LENS
		2JA 959 037-511
Mounting	Two hole surface mount with mounting bushes 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 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.	
Approval Markings	E4 10R 04-2893 CE	



2JA 959 037-501



**DuraLED 36 White LED Lamp**

White high brightness LED lamp with clear Grilamid® lens. Incorporates 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.

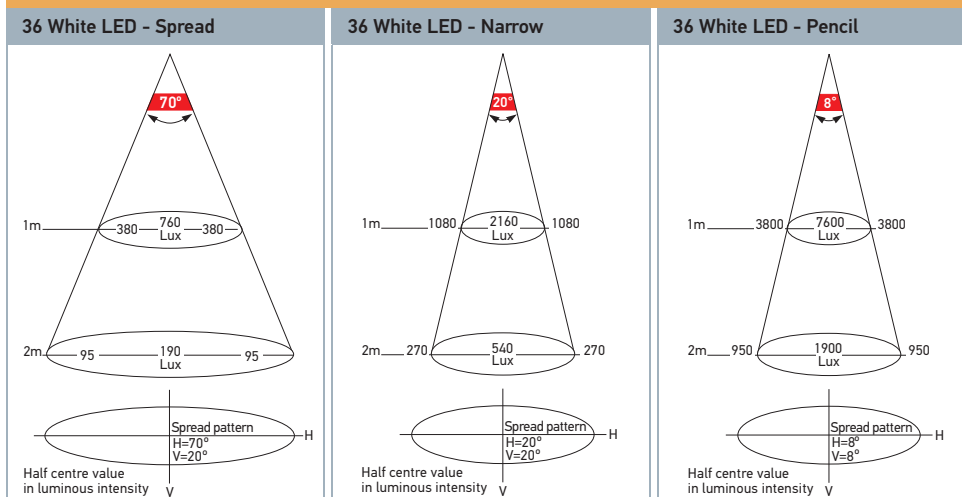
Part Number	WHITE LENS	CHARCOAL LENS	
	2JA 959 037-201	2JA 959 037-211	SPREAD
	2JA 959 037-401	2JA 959 037-411	NARROW
	2JA 959 037-301	2JA 959 037-311	PENCIL
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	<9W		
Protection	Reverse polarity and spike protected. 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.		
Approval Markings	E4 10R 04-2893 CE		



2JA 959 037-211

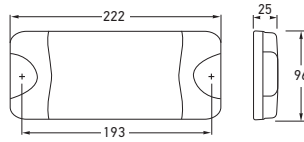
LED INTERIOR LIGHTING

**ILLUMINATION CHARTS**



**DuraLED Combi-S 50 White LED Lamp - White Lens**

White high brightness LED lamp with clear and exceptional light output. Incorporates high efficacy electronics and LEDs resulting in low power consumption (<12 watts) and low heat. Spread light is suitable for general area lighting. The lamp is fully sealed against dust and moisture ingress.



<b>Part Number</b>	<b>2JA 980 629-501</b>	<b>WIDE SPREAD</b>
	<b>2JA 980 629-001</b>	<b>SPREAD</b>
<b>Mounting</b>	Two hole surface mount with mounting bushes supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	<12W	
<b>Protection</b>	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)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	CE	



2JA 980 629-001



Ultra slim height of only 25mm.

**DuraLED Combi-S 50 White LED Lamp - Charcoal Lens**

White high brightness LED lamp with clear Grilamid® lens. Incorporates high efficacy electronics and LEDs resulting in low power consumption (<12 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.

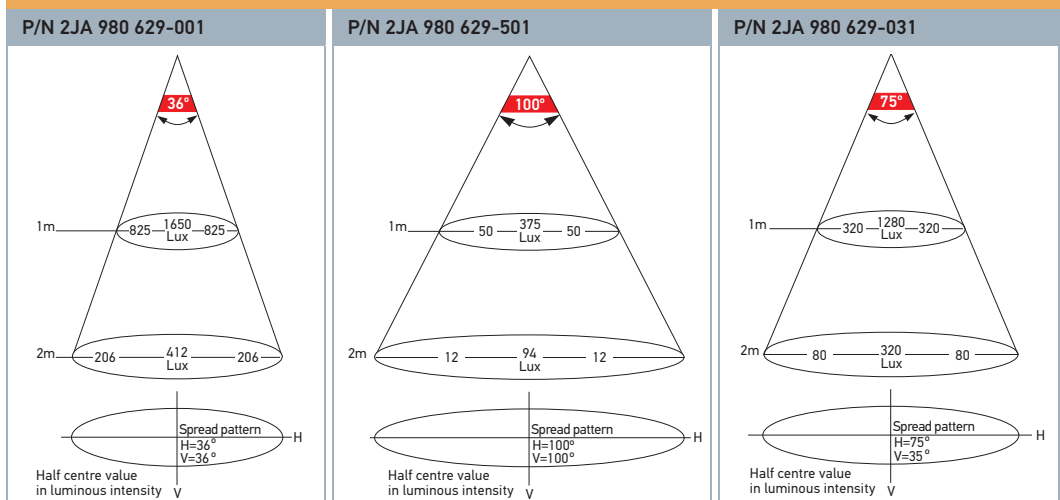


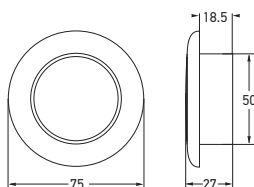
<b>Part Number</b>	<b>2JA 980 604-031</b>	<b>WIDE SPREAD</b>
<b>Mounting</b>	Two hole surface mount with mounting bushes supplied.	
<b>Voltage</b>	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
<b>Power Consumption</b>	<12W	
<b>Protection</b>	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
<b>Cable Length</b>	Pre-wired with 2.5m of sheathed multi-core cable.	
<b>Approval Markings</b>	CE	



Ultra slim height of only 25mm.

**ILLUMINATION CHARTS**





**LED Downlights - Round**

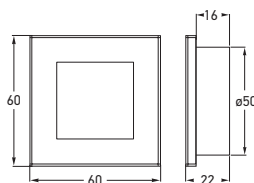
Round LED downlights offering class leading efficiency and durability. Supplied with white rims to suit.



Part Number	12 VOLT	24 VOLT	
	2JA 959 599-002	2JA 959 599-102	WHITE
	2JA 959 596-002	2JA 959 596-102	WARM WHITE

Mounting	Recess mount, 50mm diameter hole.
Power Consumption	1W
Protection	Reverse polarity and voltage spike protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.

See page 112 for additional rim colours.



**LED Downlights - Square**

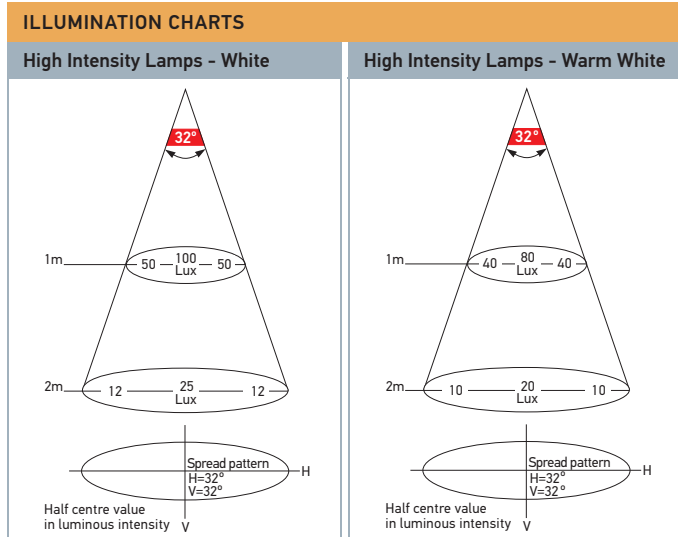
Square LED downlights offering class leading efficiency and durability. Supplied with white rims to suit.



Part Number	12 VOLT	24 VOLT	
	2JA 980 596-002	2JA 980 596-102	WHITE
	2JA 980 597-002	2JA 980 597-102	WARM WHITE

Mounting	Recess mount, 50mm diameter hole.
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.

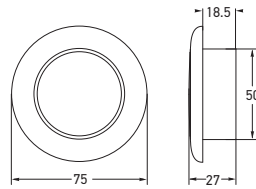
See page 112 for additional rim colours.



LED INTERIOR LIGHTING

**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.



ROUND COURTESY LAMPS - CLEAR LENS	
Mounting	Recess mount, 50mm diameter hole.
Power Consumption	<1W
Protection	Reverse polarity and voltage spike protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.
Pack Size	24 lamps
See page 112 for spare parts and surface mount housings.	



	12V DC	24V DC	
WHITE	2XT 980 500-097	2XT 980 501-097	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 500-027	2XT 980 501-027	POLISHED STAINLESS STEEL RIM
	2XT 980 500-037	2XT 980 501-037	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 500-047	2XT 980 501-047	WHITE PLASTIC RIM
	2XT 980 500-057	2XT 980 501-057	BLACK PLASTIC RIM



	12V DC	24V DC	
WHITE ENHANCED BRIGHTNESS	2XT 980 500-597	2XT 980 501-597	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 500-527	2XT 980 501-527	POLISHED STAINLESS STEEL RIM
	2XT 980 500-537	2XT 980 501-537	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 500-547	2XT 980 501-547	WHITE PLASTIC RIM
	2XT 980 500-557	2XT 980 501-557	BLACK PLASTIC RIM



	12V DC	24V DC	
WARM WHITE	2XT 980 500-297	2XT 980 501-297	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 500-227	2XT 980 501-227	POLISHED STAINLESS STEEL RIM
	2XT 980 500-237	2XT 980 501-237	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 500-247	2XT 980 501-247	WHITE PLASTIC RIM
	2XT 980 500-257	2XT 980 501-257	BLACK PLASTIC RIM



	12V DC	24V DC	
WARM WHITE ENHANCED BRIGHTNESS	2XT 980 500-797	2XT 980 501-797	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 500-727	2XT 980 501-727	POLISHED STAINLESS STEEL RIM
	2XT 980 500-737	2XT 980 501-737	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 500-747	2XT 980 501-747	WHITE PLASTIC RIM
	2XT 980 500-757	2XT 980 501-757	BLACK PLASTIC RIM

LED INTERIOR LIGHTING



LED INTERIOR LIGHTING

GREEN	12V DC	24V DC	
	2XT 980 502-097	2XT 980 503-097	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 502-027	2XT 980 503-027	POLISHED STAINLESS STEEL RIM
	2XT 980 502-037	2XT 980 503-037	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 502-047	2XT 980 503-047	WHITE PLASTIC RIM
	2XT 980 502-057	2XT 980 503-057	BLACK PLASTIC RIM



BLUE	12V DC	24V DC	
	2XT 980 502-297	2XT 980 503-297	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 502-227	2XT 980 503-227	POLISHED STAINLESS STEEL RIM
	2XT 980 502-237	2XT 980 503-237	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 502-247	2XT 980 503-247	WHITE PLASTIC RIM
	2XT 980 502-257	2XT 980 503-257	BLACK PLASTIC RIM



CYAN	12V DC	24V DC	
	2XT 980 502-497	2XT 980 503-497	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 502-427	2XT 980 503-427	POLISHED STAINLESS STEEL RIM
	2XT 980 502-437	2XT 980 503-437	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 502-447	2XT 980 503-447	WHITE PLASTIC RIM
	2XT 980 502-457	2XT 980 503-457	BLACK PLASTIC RIM



AMBER	12V DC	24V DC	
	2XT 980 507-097	2XT 980 508-097	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 507-027	2XT 980 508-027	POLISHED STAINLESS STEEL RIM
	2XT 980 507-037	2XT 980 508-037	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 507-047	2XT 980 508-047	WHITE PLASTIC RIM
	2XT 980 507-057	2XT 980 508-057	BLACK PLASTIC RIM



RED	12V DC	24V DC	
	2XT 980 507-307	2XT 980 508-297	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 507-227	2XT 980 508-227	POLISHED STAINLESS STEEL RIM
	2XT 980 507-237	2XT 980 508-237	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 507-247	2XT 980 508-247	WHITE PLASTIC RIM
	2XT 980 507-257	2XT 980 508-257	BLACK PLASTIC RIM



DEEP RED	12V DC	24V DC	
	2XT 980 507-497	2XT 980 508-497	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 507-427	2XT 980 508-427	POLISHED STAINLESS STEEL RIM
	2XT 980 507-437	2XT 980 508-437	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 507-447	2XT 980 508-447	WHITE PLASTIC RIM
	2XT 980 507-457	2XT 980 508-457	BLACK PLASTIC RIM



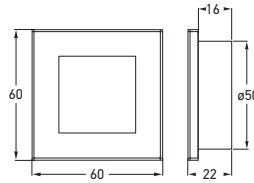
ORANGE	12V DC	24V DC	
	2XT 980 507-697	2XT 980 508-697	SATIN CHROME PLATED STAINLESS STEEL RIM
	2XT 980 507-627	2XT 980 508-627	POLISHED STAINLESS STEEL RIM
	2XT 980 507-637	2XT 980 508-637	GOLD PLATED STAINLESS STEEL RIM
	2XT 980 507-647	2XT 980 508-647	WHITE PLASTIC RIM
	2XT 980 507-657	2XT 980 508-657	BLACK PLASTIC RIM



LED INTERIOR LIGHTING

**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.



**SQUARE COURTESY LAMPS - CLEAR LENS**

Mounting	Recess mount, 50mm diameter hole.
Power Consumption	<1W
Protection	Reverse polarity and voltage spike protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.
Pack Size	24 lamps
See page 112 for spare parts and surface mount housings.	



	12V DC	24V DC	
WHITE	2XT 980 580-067	2XT 980 581-067	SATIN CHROME PLATED RIM
	2XT 980 580-077	2XT 980 581-077	CHROME PLATED RIM
	2XT 980 580-037	2XT 980 581-037	GOLD PLATED RIM
	2XT 980 580-057	2XT 980 581-057	WHITE PLASTIC RIM
	2XT 980 580-047	2XT 980 581-047	BLACK PLASTIC RIM



	12V DC	24V DC	
WHITE ENHANCED BRIGHTNESS	2XT 980 580-567	2XT 980 581-567	SATIN CHROME PLATED RIM
	2XT 980 580-577	2XT 980 581-577	CHROME PLATED RIM
	2XT 980 580-537	2XT 980 581-537	GOLD PLATED RIM
	2XT 980 580-557	2XT 980 581-557	WHITE PLASTIC RIM
	2XT 980 580-547	2XT 980 581-547	BLACK PLASTIC RIM



	12V DC	24V DC	
WARM WHITE	2XT 980 580-267	2XT 980 581-267	SATIN CHROME PLATED RIM
	2XT 980 580-277	2XT 980 581-277	CHROME PLATED RIM
	2XT 980 580-237	2XT 980 581-237	GOLD PLATED RIM
	2XT 980 580-257	2XT 980 581-257	WHITE PLASTIC RIM
	2XT 980 580-247	2XT 980 581-247	BLACK PLASTIC RIM

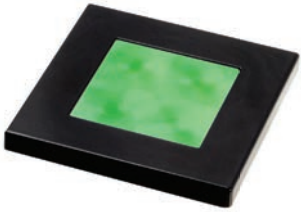


	12V DC	24V DC	
WARM WHITE ENHANCED BRIGHTNESS	2XT 980 580-767	2XT 980 581-767	SATIN CHROME PLATED RIM
	2XT 980 580-777	2XT 980 581-777	CHROME PLATED RIM
	2XT 980 580-737	2XT 980 581-737	GOLD PLATED RIM
	2XT 980 580-757	2XT 980 581-757	WHITE PLASTIC RIM
	2XT 980 580-747	2XT 980 581-747	BLACK PLASTIC RIM

LED INTERIOR LIGHTING

LED INTERIOR LIGHTING

GREEN	12V DC	24V DC	
	2XT 980 582-097	2XT 980 583-097	SATIN CHROME PLATED RIM
	2XT 980 582-027	2XT 980 583-027	CHROME PLATED RIM
	2XT 980 582-037	2XT 980 583-037	GOLD PLATED RIM
	2XT 980 582-057	2XT 980 583-057	WHITE PLASTIC RIM
	2XT 980 582-047	2XT 980 583-047	BLACK PLASTIC RIM



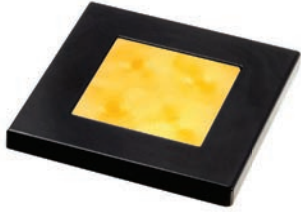
BLUE	12V DC	24V DC	
	2XT 980 582-297	2XT 980 583-297	SATIN CHROME PLATED RIM
	2XT 980 582-277	2XT 980 583-277	CHROME PLATED RIM
	2XT 980 582-237	2XT 980 583-237	GOLD PLATED RIM
	2XT 980 582-257	2XT 980 583-257	WHITE PLASTIC RIM
	2XT 980 582-247	2XT 980 583-247	BLACK PLASTIC RIM



CYAN	12V DC	24V DC	
	2XT 980 582-467	2XT 980 583-467	SATIN CHROME PLATED RIM
	2XT 980 582-477	2XT 980 583-477	CHROME PLATED RIM
	2XT 980 582-437	2XT 980 583-437	GOLD PLATED RIM
	2XT 980 582-457	2XT 980 583-457	WHITE PLASTIC RIM
	2XT 980 582-447	2XT 980 583-447	BLACK PLASTIC RIM



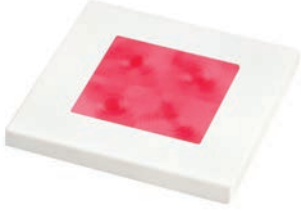
AMBER	12V DC	24V DC	
	2XT 980 587-067	2XT 980 588-067	SATIN CHROME PLATED RIM
	2XT 980 587-077	2XT 980 588-077	CHROME PLATED RIM
	2XT 980 587-037	2XT 980 588-037	GOLD PLATED RIM
	2XT 980 587-057	2XT 980 588-057	WHITE PLASTIC RIM
	2XT 980 587-047	2XT 980 588-047	BLACK PLASTIC RIM



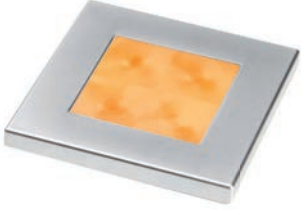
RED	12V DC	24V DC	
	2XT 980 587-267	2XT 980 588-267	SATIN CHROME PLATED RIM
	2XT 980 587-277	2XT 980 588-277	CHROME PLATED RIM
	2XT 980 587-237	2XT 980 588-237	GOLD PLATED RIM
	2XT 980 587-257	2XT 980 588-257	WHITE PLASTIC RIM
	2XT 980 587-247	2XT 980 588-247	BLACK PLASTIC RIM



DEEP RED	12V DC	24V DC	
	2XT 980 587-467	2XT 980 588-467	SATIN CHROME PLATED RIM
	2XT 980 587-477	2XT 980 588-477	CHROME PLATED RIM
	2XT 980 587-437	2XT 980 588-437	GOLD PLATED RIM
	2XT 980 587-457	2XT 980 588-457	WHITE PLASTIC RIM
	2XT 980 587-447	2XT 980 588-447	BLACK PLASTIC RIM



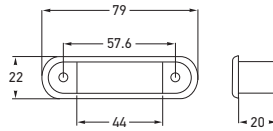
ORANGE	12V DC	24V DC	
	2XT 980 587-667	2XT 980 588-667	SATIN CHROME PLATED RIM
	2XT 980 587-677	2XT 980 588-677	CHROME PLATED RIM
	2XT 980 587-637	2XT 980 588-637	GOLD PLATED RIM
	2XT 980 587-657	2XT 980 588-657	WHITE PLASTIC RIM
	2XT 980 587-647	2XT 980 588-647	BLACK PLASTIC RIM



LED INTERIOR LIGHTING

### Narrow Rim Rectangular Courtesy Lamp

Narrow rim recess mount courtesy lamp with either white, warm white, green, blue, amber or red LEDs. Pack of 36 lamps.



12 VOLT / 24 VOLT			
Part Number	2XT 959 510-457	WHITE	CLEAR LENS
	2XT 959 510-937	WARM WHITE	
	2XT 959 510-157	GREEN	
	2XT 959 510-257	BLUE	

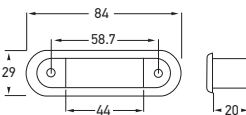


Part Number	12 VOLT	24 VOLT	AMBER	CLEAR LENS
	2XT 959 510-007	2XT 959 510-057		AMBER LENS
	2XT 959 510-017	2XT 959 510-067	RED	CLEAR LENS
	2XT 959 510-307	2XT 959 510-357		RED LENS
2XT 959 510-317	2XT 959 510-337			

Mounting	Two hole 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.			
Approval Markings	E4 10R 04-2906 CE			
Approval markings are only applicable for Multivolt versions.				

### Wide Rim Rectangular Courtesy Lamp

Wide rim recess mount courtesy lamp with either white, warm white, green, blue, amber or red LEDs. Pack of 36 lamps.

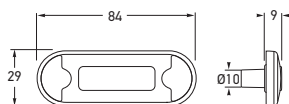


12 VOLT / 24 VOLT			
Part Number	2XT 959 510-427	WHITE	CLEAR LENS
	2XT 959 510-907	WARM WHITE	
	2XT 959 510-627	GREEN	
	2XT 959 510-657	BLUE	



Part Number	12 VOLT	24 VOLT	AMBER	CLEAR LENS
	2XT 959 510-507	2XT 959 510-557		AMBER LENS
	2XT 959 510-517	2XT 959 510-567	RED	CLEAR LENS
	2XT 959 510-707	2XT 959 510-757		RED LENS
2XT 959 510-717	2XT 959 510-767			

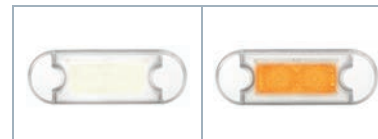
Mounting	Two hole recess mount.			
Power Consumption	<1W			
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)			
Cable Length	Pre-wired with 120mm of cable.			
Approval Markings	E4 10R 04-2906 CE			
Approval markings are only applicable for Multivolt versions.				



**DuraLED Flush Mount  
Courtesy Lamp - Low Profile**

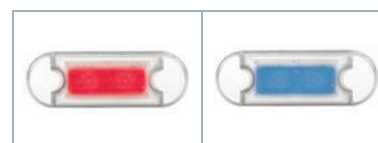
These LED courtesy lamps feature a shallow 9mm profile and completely sealed housing. Available in a range of colours. Optic appears clear until illuminated.

<b>Part Number</b>	2XT 980 855-117	WHITE
	2XT 980 855-167	WARM WHITE
	2XT 980 855-267	AMBER
	2XT 980 855-347	RED
	2XT 980 855-417	BLUE
	2XT 980 855-517	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.	
Pack Size	16 lamps	
Approval Markings	CE	



P/N 2XT 980 855-167

P/N 2XT 980 855-267



P/N 2XT 980 855-347

P/N 2XT 980 855-417



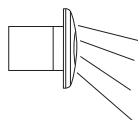
P/N 2XT 980 855-517



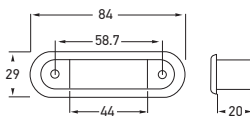
*HELLA LED Luminaires  
provide superior quality  
lighting solutions for  
Interior/Exterior lighting.*



LED INTERIOR LIGHTING



Peak light output is projected down at 30°



Wide Rim Rectangular - Step Courtesy Lamp

Flush mount step lamp with either white, warm white, green, blue or red LEDs.

WIDE RIM RECTANGULAR - STEP COURTESY LAMP	
Mounting	Two hole recess mount.
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts (red lamps), or between 10 to 33 volts (blue, green, white and warm white lamps).
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)
Pack Size	24 lamps
Approval Markings	Ⓔ 10R 04-2906 CE

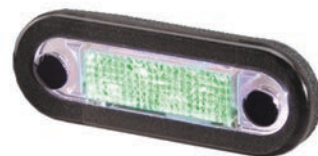
WHITE	Clear Lens	
	2XT 959 680-807	LAMP ONLY
	2XT 959 680-817	POLISHED STAINLESS STEEL RIM
	2XT 959 680-847	GOLD PLATED STAINLESS STEEL RIM
	2XT 959 680-857	SATIN CHROME PLATED STAINLESS STEEL RIM



WARM WHITE	Clear Lens	
	2XT 959 680-407	LAMP ONLY
	2XT 959 680-417	POLISHED STAINLESS STEEL RIM
	2XT 959 680-427	GOLD PLATED STAINLESS STEEL RIM
	2XT 959 680-437	SATIN CHROME PLATED STAINLESS STEEL RIM



GREEN	Clear Lens	
	2XT 959 680-907	LAMP ONLY
	2XT 959 680-917	POLISHED STAINLESS STEEL RIM
	2XT 959 680-927	GOLD PLATED STAINLESS STEEL RIM
	2XT 959 680-937	SATIN CHROME PLATED STAINLESS STEEL RIM



BLUE	Clear Lens	
	2XT 959 680-607	LAMP ONLY
	2XT 959 680-617	POLISHED STAINLESS STEEL RIM
	2XT 959 680-627	GOLD PLATED STAINLESS STEEL RIM
	2XT 959 680-637	SATIN CHROME PLATED STAINLESS STEEL RIM



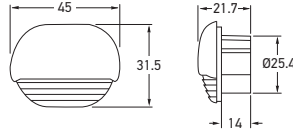
RED	Clear Lens	
	2XT 959 680-707	LAMP ONLY
	2XT 959 680-717	POLISHED STAINLESS STEEL RIM
	2XT 959 680-727	GOLD PLATED STAINLESS STEEL RIM
	2XT 959 680-737	SATIN CHROME PLATED STAINLESS STEEL RIM



LED INTERIOR LIGHTING

Low Profile - Step Courtesy Lamp

Flush mount step lamp with either white, blue, amber or red LEDs, and a selection of cover colours.



LOW PROFILE - STEP COURTESY LAMP

Mounting	Single hole recess mount (foam gasket supplied).
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	0.5W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 100mm of cable.
Pack Size	20 lamps

Approval Markings **CE**  
Lamp covers cannot be removed easily once clipped into place.



Clear Lens		
WHITE	2JA 998 560-127	SATIN CHROME PLATED CAP
	2JA 998 560-007	CHROME PLATED CAP
	2JA 998 560-087	GOLD PLATED CAP
	2JA 998 560-017	WHITE CAP
	2JA 998 560-117	BLACK CAP



Clear Lens		
BLUE	2JA 998 560-107	SATIN CHROME PLATED CAP
	2JA 998 560-047	CHROME PLATED CAP
	2JA 998 560-097	GOLD PLATED CAP
	2JA 998 560-057	WHITE CAP
	2JA 998 560-157	BLACK CAP



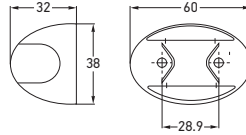
Clear Lens		
AMBER	2JA 998 560-347	SATIN CHROME PLATED CAP
	2JA 998 560-307	CHROME PLATED CAP
	2JA 998 560-337	GOLD PLATED CAP
	2JA 998 560-317	WHITE CAP
	2JA 998 560-327	BLACK CAP



Clear Lens		
RED	2JA 998 560-247	SATIN CHROME PLATED CAP
	2JA 998 560-207	CHROME PLATED CAP
	2JA 998 560-237	GOLD PLATED CAP
	2JA 998 560-217	WHITE CAP
	2JA 998 560-227	BLACK CAP

LED INTERIOR LIGHTING

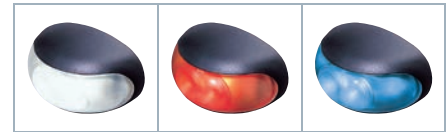




Part Number	2XT 959 630-457	WHITE
	2XT 959 630-157	AMBER
	2XT 959 630-357	RED
	2XT 959 630-257	BLUE
	2XT 959 630-557	GREEN
Mounting	Two hole surface mount.	
Voltage	Multivolt for optimum brightness at input voltage from 8 to 28 volts (red and amber lamps), or between 10 and 33 volts (blue, white and green lamps).	
Power Consumption	<1W	
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 0.5m of sheathed multi-core cable.	
Pack Size	16 lamps	
Approval Markings	E4 10R 04-2906 CE	
Spare Parts	9BG 959 565-007	Black shroud
	9BG 959 565-017	White shroud
	9BG 959 565-037	Red shroud
	9BG 959 565-047	Yellow shroud
	9BG 959 565-057	Green shroud
	9BG 959 565-067	Blue shroud
	9BG 959 565-077	Amber shroud
	9BG 959 565-407	Chrome plated shroud

DuraLED Surface Mount Courtesy Lamp

Amber, blue, red, white or green LED courtesy lamps with a diffusion lens.



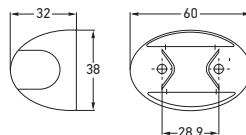
2XT 959 630-457

2XT 959 630-357

2XT 959 630-257



2XT 959 630-557



Part Number	2XT 959 630-107	AMBER
	2XT 959 630-307	RED
Mounting	Two hole surface mount.	
Voltage	12V DC	
Power Consumption	<1W	
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 150mm of cable.	
Pack Size	24 lamps	
Spare Parts	9BG 959 565-007	Black shroud
	9BG 959 565-017	White shroud
	9BG 959 565-037	Red shroud
	9BG 959 565-047	Yellow shroud
	9BG 959 565-057	Green shroud
	9BG 959 565-067	Blue shroud
	9BG 959 565-077	Amber shroud
	9BG 959 565-407	Chrome plated shroud

DuraLED Surface Mount Courtesy Lamp

Amber or red LED courtesy lamps with a clear lens.



2XT 959 630-307



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**DuraLED Accessories**

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



SCREW CAPS - DURALED		
Part Number	Colour	Quantity
9HD 959 065-037	RED	PACK OF 4
9HD 959 065-017	WHITE	
9HD 959 065-067	BLUE	
9HD 959 065-057	GREEN	
9HD 959 065-047	YELLOW	
9HD 959 065-007	BLACK	
9HD 959 065-077	AMBER	



SCREW BOSS - DURALED	
Part Number	Quantity
9NH 959 059-007	PACK OF 4

**DuraLED Combi-S/Combi-R Accessories**



SCREW CAPS - DURALED COMBI-S/COMBI-R		
Part Number	Colour	Quantity
9HD 980 712-038	RED	PACK OF 4
9HD 980 712-018	WHITE	
9HD 980 712-068	BLUE	
9HD 980 712-058	GREEN	
9HD 980 712-048	YELLOW	
9HD 980 712-008	BLACK	
9HD 980 712-078	AMBER	



ACCESSORIES

RIMS (SINGLE)		
Part Number	Colour	Material
9AB 959 686-012	WHITE	PLASTIC
9AB 959 686-002	BLACK	
9AB 959 685-201 (ECE engraved)	POLISHED	316 STAINLESS STEEL
9AB 959 685-001		
9AB 959 685-021	GOLD PLATED	
9AB 959 685-061	SATIN CHROME PLATED	



DuraLED Flush Mount Marker and Courtesy Lamp Accessories

Accessory rims and screw caps for the DuraLED flush mount marker and courtesy lamp family.



P/N 9AB 959 686-012



P/N 9AB 959 686-002

SCREW CAPS		
Part Number	Colour	Quantity
9HD 980 858-008	BLACK	PACK OF 4
9HD 980 858-038	RED	
9HD 980 858-018	WHITE	
9HD 980 858-068	BLUE	
9HD 980 858-058	GREEN	
9HD 980 858-048	YELLOW	
9HD 980 858-078	AMBER	
9HD 980 858-028	GREY	



P/N 9HD 980 858-008

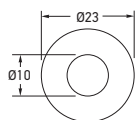


P/N 9HD 980 858-048

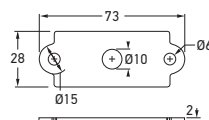


DuraLED Surface Mount Marker and Courtesy Lamp Gaskets

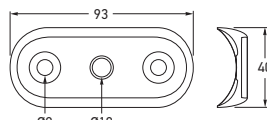
Accessory gaskets for the DuraLED lamp range.



Seal Round  
P/N 9GD 980 867-007



Seal Rectangular  
P/N 9GD 980 867-507



Seal Curved  
P/N 9GD 958 028-001

1X2 FLUSH MOUNT	
Part Number	
9GD 958 028-001	SEAL CURVED
9GD 980 867-507	SEAL RECTANGULAR
9GD 980 867-007	SEAL ROUND



P/N 9GD 958 028-001



P/N 9GD 980 867-507



P/N 9GD 980 867-007

**DuraLED DT Marker and Signal Lamp Accessories**



P/N 9BG 980 996-002



P/N 9BG 980 996-102

HOUSING		
Part Number	Colour	Quantity
9BG 980 996-002	BLACK	SINGLE
9BG 980 996-102	WHITE	

**DuraLED Surface Mount Marker and Courtesy Lamp Accessories**

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



P/N 9BG 959 565-077



P/N 9BG 959 565-037

HOUSING		
Part Number	Colour	Quantity
9BG 959 565-007	BLACK	PACK OF 4
9BG 959 565-037	RED	
9BG 959 565-017	WHITE	
9BG 959 565-067	BLUE	
9BG 959 565-057	GREEN	
9BG 959 565-047	YELLOW	
9BG 959 565-077	AMBER	
9BG 959 565-407	CHROME PLATED	



9BG 959 565-007

9BG 959 565-017

9BG 959 565-067

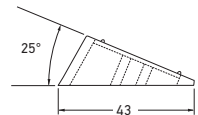
9BG 959 565-057

9BG 959 565-047

9BG 959 565-407

**Angle Mount to suit DuraLED Marker Lamps**

Angle bracket to assist in the vertical alignment of the DuraLED marker range.



HOUSING	
Part Number	Colour
8HG 959 571-011	BLACK

**ACCESSORIES**

COVERS AND SCREW BOSS		
Part Number	Colour	Quantity
9HD 959 027-007 (Cover)	BLACK	PACK OF 4
9NH 959 028-017 (Screw Boss)		
9HD 959 027-017 (Cover)	WHITE	

MOUNTING SPACERS		
Part Number	Colour	Quantity
8HG 959 952-002	BLACK	SINGLE
8HG 959 952-012	WHITE	
8HG 959 952-022	YELLOW	

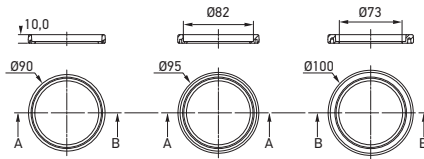
**EuroLED Accessories**

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



**Adaptor Rings**

Adaptor ring for the 83mm round LED lamp family. Allows retrofitting of lamp into existing applications with mounting holes larger than a diameter of 83mm.



Part Number	9GD 980 696-001	9GD 980 696-007 (Pack of 50)	90MM O.D
	9GD 980 696-201	9GD 980 696-207 (Pack of 50)	95MM O.D
	9GD 980 696-401	9GD 980 696-407 (Pack of 50)	100MM O.D



**LED Combination Trailer Lamp Spacer**

Part Number	8HG 980 727-001	15MM
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**LED Light Bar Accessories**

Spare brackets to suit the LED Light Bar 350, LED Light Bar 470 and the LED BL350 Work Lamps.



P/N 8HG 958 128-811  
Double stainless steel mounting feet (One pair)



P/N 8HG 958 139-071  
Single spare end HD bracket kit (For one end)



P/N 8HG 958 053-801  
Single spare plastic bracket kit

DOUBLE STAINLESS STEEL MOUNTING FEET	
<b>Part Number</b>	<b>8HG 958 128-811</b>
Includes:	Double stainless steel mounting feet (One pair)

SINGLE SPARE END HD BRACKET KIT (NO MOUNTING FEET)		
<b>Part Number</b>	<b>8HG 958 139-071</b>	
Kit Includes:	1 x End adaptor 1 x Friction washer 1 x End clamp	1 x Screw cap 1 x Stainless steel M8 x 20mm cap screw 1 x Stainless steel M8 nylon lock nut

SINGLE SPARE PLASTIC BRACKET KIT		
<b>Part Number</b>	<b>8HG 958 053-801</b>	
Kit Includes:	2 x Plastic mounting feet 1 x C-Clip 1 x Bolt anchor	1 x Stainless steel M6 nylon lock nut 1 x Stainless steel M6 x 70mm cap screw 1 x Stainless steel M6 washer



Disassembled view

**Number Plate Lamp Accessories**

Mounting kit includes a housing, cover, spacer and extended screw bosses suitable for mounting the lamp for ECE compliance. One mounting kit is required per lamp.



P/N 8HG 959 647-001

<b>Part Number</b>	MOUNTING KIT		
	8HG 959 647-001		
	SCREW CAPS (PACK OF 20)		
	9HD 959 182-037 (Black)	9HD 959 182-007 (Clear)	PLASTIC



9HD 959 182-007    9HD 959 182-037

**Surface Mount Strip Lamp  
- Screw Caps**



P/N 9HD 980 885-018



P/N 9HD 980 885-008



P/N 9HD 980 885-108

SURFACE MOUNT STRIP LAMP SCREW CAPS		
<b>Part Number</b>	<b>Colour</b>	<b>Quantity</b>
9HD 980 885-018	CHARCOAL	PACK OF 4
9HD 980 885-008	WHITE	
9HD 980 885-108	CHROME PLATED	



Wide and Narrow Rim Rectangular Lamp Screw Caps

Part Number	SCREW CAPS (PACK OF 20)		
	9HD 959 182-007 (Clear)	9HD 959 182-017 (Amber)	PLASTIC
	9HD 959 182-027 (Red)	9HD 959 182-037 (Black)	



9HD 959 182-037    9HD 959 182-027    9HD 959 182-007



P/N 9HD 959 182-017

Wide Rim Rectangular Courtesy Lamp Rims

Part Number	RIMS (SINGLE)		
	9AB 959 686-012 (White)	9AB 959 686-002 (Black)	PLASTIC
	9AB 959 685-001 (Polished)	9AB 959 685-021 (Gold Plated)	316 STAINLESS STEEL
	9AB 959 685-061 (Satin Chrome Plated)		



9AB 959 685-001    9AB 959 685-021    9AB 959 685-061

Screw caps for the wide rim rectangular courtesy lamp family. Two screw caps are required per lamp.



P/N 9AB 959 686-012



P/N 9AB 959 686-002

Marker and Courtesy Lamp Gaskets

Part Number	SEALS (PACK OF 4)	
	9GD 959 515-127	NARROW RIM
	9GD 959 515-207	CURVED SEAL
	9GD 959 517-007	WIDE RIM
	1X2 SPACER	
	9XD 160 867-007	PLASTIC



9GD 959 515-207    9GD 959 517-007    9XD 160 867-007

Gaskets for narrow rim (22mm) and wide rim (29mm) 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

Low Profile Step Lamp Accessories

Part Number	CAPS (PACK OF 4)		
	9AB 994 554-037 (Black)	9AB 994 554-017 (White)	PLASTIC
	9AB 994 554-007 (Chrome Plated)	9AB 994 554-027 (Gold Plated)	PLATED PLASTIC
	9AB 994 554-067 (Satin Chrome Plated)		

Lamp covers cannot easily be removed once clipped into place.



9AB 994 554-037    9AB 994 554-017    9AB 994 554-027    9AB 994 554-067

Spare caps for the low profile step lamp family. One cap is required per lamp.



P/N 9AB 994 554-007

**Round Courtesy Lamp Accessories**

Spare rims and surface mount housings for the round courtesy lamp family. One rim is required per lamp.



P/N 9AB 959 505-201



P/N 8HG 959 993-132

RIMS (SINGLE)			
Part Number	9AB 959 505-201 (Black)	9AB 959 505-311 (White)	PLASTIC
	9AB 959 505-501 (Polished)	9AB 959 505-521 (Gold Plated)	
	9AB 959 505-561 (Satin Chrome Plated)		316 STAINLESS STEEL



9AB 959 505-561    9AB 959 505-521    9AB 959 505-501    9AB 959 505-311

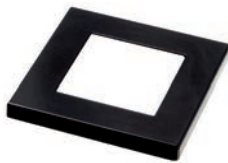
SURFACE MOUNT ROUND HOUSING (PACK OF 2)			
Part Number	8HG 959 993-122 (Black)	8HG 959 993-132 (White)	PLASTIC



8HG 959 993-122

**Square Courtesy Lamp Accessories**

Spare rims and surface mount housings for the square courtesy lamp family. One rim is required per lamp.



P/N 9AB 980 585-201



P/N 8HG 959 993-541

RIMS (SINGLE)			
Part Number	9AB 980 585-201 (Black)	9AB 980 585-311 (White)	PLASTIC
	9AB 980 585-011 (Chrome Plated)	9AB 980 585-021 (Gold Plated)	
	9AB 980 585-031 (Satin Chrome Plated)		



9AB 980 585-031    9AB 980 585-021    9AB 980 585-011    9AB 980 585-311

SURFACE MOUNT SQUARE HOUSING (PACK OF 2)			
Part Number	8HG 959 993-601 (Black)	8HG 959 993-541 (White)	PLASTIC



8HG 959 993-601

**LED Interior Strip or CHMSL Lamp Accessories**

Spare seals and screw caps for the narrow and wide rim 1x12 lamp family. One seal, and two screw caps are required per lamp.



P/N 9GD 959 155-507



P/N 9HD 959 182-007

SEALS (PACK OF 10)			
Part Number	9GD 959 155-107 (Narrow Rim)	9GD 959 155-507 (Wide Rim)	PLASTIC
	SCREW CAPS (PACK OF 20)		
	9HD 959 182-037 (Black)	9HD 959 182-007 (Clear)	



9GD 959 155-107 (Narrow rim)    9HD 959 182-037









1FJ 958 040-001.....	16	2BA 959 822-611.....	28	2JA 958 109-021.....	85	2JA 959 820-401.....	82
1FJ 958 040-051.....	16	2BA 959 932-011.....	37	2JA 958 109-111.....	85	2JA 959 820-421.....	82
1FJ 958 040-072.....	17	2BA 959 932-031.....	37	2JA 958 109-121.....	85	2JA 959 820-501.....	82
1FJ 958 040-082.....	17	2BA 959 932-041.....	37	2JA 958 109-511.....	85	2JA 959 820-551.....	82
1FJ 958 130-011.....	18	2BA 959 932-051.....	37	2JA 958 109-521.....	85	2JA 959 820-701.....	82
1FJ 958 130-111.....	18	2BA 959 932-071.....	37	2JA 958 109-611.....	85	2JA 959 820-721.....	82
1GA 958 060-011.....	73	2BA 959 932-081.....	37	2JA 958 109-621.....	85	2JA 959 821-501.....	82
1GA 958 060-111.....	73	2BA 959 932-401.....	55	2JA 958 110-011.....	85	2JA 959 821-521.....	82
1GA 958 060-201.....	73	2BA 959 932-411.....	55	2JA 958 110-021.....	85	2JA 959 822-501.....	82
1GA 958 060-401.....	73	2BA 959 932-421.....	55	2JA 958 110-111.....	85	2JA 959 822-521.....	82
1GA 958 060-501.....	73	2BA 959 932-511.....	38	2JA 958 110-121.....	85	2JA 959 950-011.....	82
1GA 958 060-601.....	73	2BA 959 932-531.....	38	2JA 958 110-511.....	85	2JA 959 950-021.....	82
1GA 980 573-001.....	78	2BA 959 932-541.....	38	2JA 958 110-521.....	85	2JA 959 950-551.....	82
1GA 980 573-101.....	78	2BA 959 932-551.....	38	2JA 958 110-611.....	85	2JA 959 950-561.....	82
1GA 980 573-301.....	78	2BA 959 932-571.....	38	2JA 958 110-621.....	85	2JA 980 596-002.....	93
1GA 980 670-231.....	79	2BA 959 932-581.....	38	2JA 958 121-001.....	87	2JA 980 596-102.....	93
1GA 980 670-251.....	79	2BA 959 932-801.....	55	2JA 958 121-011.....	87	2JA 980 597-002.....	93
1GA 980 670-331.....	79	2BA 959 932-831.....	55	2JA 958 121-101.....	87	2JA 980 597-102.....	93
1GA 980 670-382.....	79	2BA 959 932-841.....	55	2JA 958 121-111.....	87	2JA 980 604-031.....	92
1GA 980 670-411.....	79	2BA 980 607-001.....	10, 30	2JA 958 121-401.....	87	2JA 980 608-011.....	90
1GA 980 670-622.....	79	2BA 980 607-201.....	30	2JA 958 121-411.....	87	2JA 980 629-001.....	92
1GA 980 740-021.....	76	2BA 980 607-501.....	30	2JA 958 121-501.....	87	2JA 980 629-501.....	92
1GA 980 740-221.....	76	2BA 980 607-701.....	30	2JA 958 121-511.....	87	2JA 980 630-001.....	83
1GA 980 740-251.....	76	2BA 980 888-011.....	24	2JA 958 123-001.....	87	2JA 980 630-011.....	83
1GA 980 740-321.....	76	2BA 980 888-211.....	24	2JA 958 123-101.....	87	2JA 980 630-101.....	83
1GA 980 740-511.....	76	2BA 980 888-311.....	24	2JA 958 123-401.....	87	2JA 980 630-111.....	83
1GA 980 740-601.....	76	2BA 980 888-411.....	24	2JA 958 123-501.....	87	2JA 980 630-501.....	83
1GA 980 950-031.....	77	2BA 980 888-511.....	24	2JA 958 124-001.....	86	2JA 980 630-511.....	83
1GA 980 950-041.....	77	2BA 980 888-611.....	24	2JA 958 124-101.....	86	2JA 980 630-601.....	83
1GA 980 950-231.....	77	2BE 959 932-131.....	37	2JA 958 124-401.....	86	2JA 980 630-611.....	83
1GA 980 950-331.....	77	2BE 959 932-151.....	10, 37	2JA 958 124-501.....	86	2JA 980 631-501.....	83
1GJ 011 872-221.....	72	2BE 959 932-161.....	37	2JA 959 037-201.....	91	2JA 980 631-511.....	83
1GJ 011 872-231.....	72	2BE 980 690-001.....	20	2JA 959 037-211.....	91	2JA 980 631-601.....	83
1GJ 011 872-241.....	72	2BE 980 690-101.....	20	2JA 959 037-301.....	91	2JA 980 631-611.....	83
1GJ 958 040-501.....	74	2BE 980 690-201.....	20	2JA 959 037-311.....	91	2JA 980 681-011.....	88
1GJ 958 040-551.....	74	2BE 980 690-301.....	20	2JA 959 037-401.....	91	2JA 980 681-111.....	88
1GJ 958 040-601.....	74	2BE 980 690-307.....	20	2JA 959 037-411.....	91	2JA 980 681-511.....	88
1GJ 958 084-001.....	75	2BE 980 691-001.....	20	2JA 959 037-501.....	91	2JA 980 681-611.....	88
1GJ 958 084-011.....	75	2BE 980 691-101.....	20	2JA 959 037-511.....	91	2JA 980 820-001.....	84
1GJ 958 084-101.....	75	2BE 980 691-301.....	20	2JA 959 073-001.....	89	2JA 980 820-011.....	84
1GJ 958 084-111.....	75	2BE 980 691-307.....	20	2JA 959 073-007.....	89	2JA 980 820-101.....	84
1GJ 958 084-201.....	75	2BM 980 990-121.....	40	2JA 959 073-201.....	89	2JA 980 820-111.....	84
1GJ 958 084-211.....	75	2BM 980 990-127.....	40	2JA 959 073-207.....	89	2JA 980 828-001.....	84
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2BA 959 011-007.....	22	2DA 959 071-277.....	43, 60	2JA 959 076-507.....	88	2JA 980 828-101.....	84
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2BA 959 021-611.....	29	2DA 959 474-xx7.....	61	2JA 959 596-102.....	93	2JA 980 879-201.....	86
2BA 959 070-301.....	56	2DA 959 580-151.....	43, 60	2JA 959 599-002.....	93	2JA 980 879-301.....	86
2BA 959 070-307.....	56	2DA 959 580-551.....	43, 60	2JA 959 599-102.....	93	2JA 980 881-012.....	87
2BA 959 070-331.....	57	2DA 980 887-311.....	25	2JA 959 700-102.....	90	2JA 980 881-112.....	87
2BA 959 070-337.....	57	2DA 980 887-411.....	25	2JA 959 820-311.....	82	2JA 980 881-212.....	87
2BA 959 822-601.....	10, 28	2JA 958 109-011.....	85	2JA 959 820-331.....	82	2JA 980 881-312.....	87







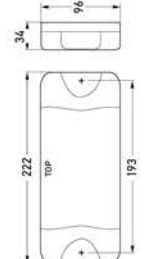
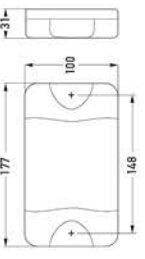

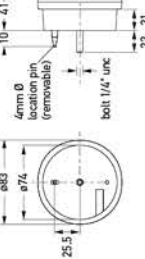
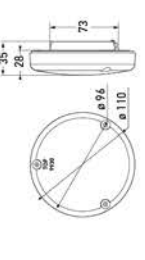
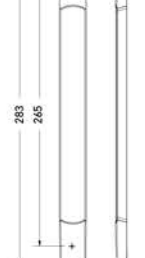
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2JA 980 881-502.....	87	2PF 959 653-107.....	59	2PT 980 860-001.....	44, 62	2VB 980 720-401.....	36
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2JA 980 881-902.....	87	2PF 959 653-707.....	59	2PT 980 880-002.....	27	2XA 959 560-401.....	41
2JA 980 940-001.....	84	2PF 959 855-201.....	39	2PT 980 880-102.....	27	2XA 959 560-407.....	41
2JA 980 940-011.....	84	2PF 959 855-207.....	39	2PT 980 880-811.....	27	2XA 959 560-411.....	41
2JA 980 940-101.....	84	2PF 959 855-241.....	39	2PT 980 880-861.....	27	2XA 959 560-417.....	41
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HELLA NEW ZEALAND LED COMMERCIAL TRANSPORT LAMPS

	DURALED COMBI	DURALED SERIES	EUROLED SERIES	83MM ROUND LED LAMPS	110MM ROUND LED LAMPS	SLIM SURFACE MOUNT
<b>ECE Approved Functions</b>	 <p>Stop/Rear Position/Rear Direction Indicator Stop/Rear Position/Rear Direction Indicator/Reverse</p>	 <p>Stop/Rear Position Rear Direction Indicator Reverse Rear Fog</p>	 <p>Stop/Rear Position Rear Direction Indicator Reverse Rear Fog</p>	 <p>Stop/Rear Position/Rear Direction Indicator Stop/Rear Position Rear Direction Indicator Reverse Rear Fog DRL/Front Direction Indicator/Front Position</p>	 <p>Front Direction Indicator/ Front Position Front Direction Indicator Reverse Rear Turn Signal</p>	 <p>Front Direction Indicator Rear Direction Indicator Stop/Rear Position Auxiliary stop Rear Fog Reverse DRL/Front Position</p>
<b>SAE Approved Functions</b>	-	Stop/Tail/Rear Turn Signal Rear Turn Signal	Stop/Tail/Rear Turn Signal Reverse	-	Stop/Tail/Rear Turn Signal Rear Turn Signal Reverse Front Turn Signal	-
<b>GGVS Approved</b>	Yes	Yes	Yes	Yes	Yes	No
<b>Voltage</b>	Multivolt	Multivolt (12V only SAE version also available)	Multivolt (24V only ECE version also available)	Multivolt (12 or 24V ECE version also available)	Multivolt	12 or 24V only
<b>Power Consumption</b>	Less than 5W	Less than 8W	Less than 5W	Less than 5W	Less than 5W	Less than 3W
<b>HELLA Compatibility Solution</b>	Available with or without HCS	Available with or without HCS	Available with or without HCS	Available with or without HCS	Available with or without HCS	-
<b>Electrical Protection</b>	Reverse Polarity and 5000 watt Transient Voltage Suppressor (TVS)	Reverse Polarity and 5000 watt Transient Voltage Suppressor (TVS)	Reverse Polarity and 1500 watt Transient Voltage Suppressor (TVS)	Reverse Polarity and 5000 watt Transient Voltage Suppressor (TVS)	Reverse Polarity and 1500 watt Transient Voltage Suppressor (TVS)	Reverse Polarity Protection
<b>Enclosure Protection</b>	IP 6K6 & IP 6K7 or higher	IP 6K6 & IP 6K7	IP 6K6 & IP 6K7	IP 6K7 & IP 6K9K	IP 6K6 & IP 6K7	IP 6K7 & IP 6K9K
<b>Cable Length</b>	2.5m or 6m	2.5m	2.5m	2.5m	200mm	2.5m - Stop/Tail 0.3
<b>Mounting</b>	Surface	Surface	Surface	Recess	Recess/Surface	Surface
<b>Dimensions in mm</b>	 <p>222, 109, 193, 34, 96</p>	 <p>177, 148, 100, 31</p>	 <p>110, 29.5, 27.5, 129.5</p>	 <p>68.0, 67.6, 25.5, 10, 41, 6mm Ø for pin (removable), bolt 1/4" UNC, 22, 21</p>	 <p>73, 35, 28, 110, 96</p>	 <p>283, 265, 11</p>

**HELLA-New Zealand Limited**

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