PRODUCT OVERVIEW
CARAVANS AND
MOTORHOMES

www.hella.com/soe/caravan

CONTENTS

Introduction	Page	4–5
Time travel	Page	6–7
LED indicators and the patented failure check	Page	8–9

FRONT LIGHTING

DynaView® Evo2	Page	11
Daytime running lights	Page	12–13
90 mm low beam headlights and spotlights	Page	14–20
90 mm fog light and daytime running lights	Page	21
50 mm headlights	Page	22
Micro DE headlights	Page	23
Position lights	Page	24–25
Indicator and position lights	Page	26–27
Headlight cleaning systems	Page	28
Ultrasonic headlight range adjustment	Page	29

REAR LIGHTING

Combination rear lights	Page	31–42
Clearance lights	Page	43–44
Safety stoplights	Page	45–46
Reflectors	Page	46–47
Licence plate lighting	Page	48–49

SIDE LIGHTING

Side marker lighting	Page	51–52
Auxiliary indicators	Page	53

INTERIOR LIGHTING

Ceiling lights	Page	55–61
Orientation lighting	Page	62–65
Reading lights	Page	66–67
Ambient lighting	Page	67

ACCESSORIES

Intelligent Battery Sensor	Page	69–70
Switches, plugs, sockets	Page	71–72
Battery chargers	Page	73
Hazard warning lights	Page	73
Hand lamps	Page	73
Boxes of spare bulbs	Page	73
Overview of articles	Page	74–75

Freedom without adventure

Caravan or motorhome owners heading out on holiday want to experience independence, but in their own way.

Those who develop, design and produce these homes on wheels have to set technological and design trends with every new model series.

Those who have HELLA on board as a partner have boundless possibilities – as developers, manufacturers and users. HELLA means real freedom - free from risky adventures.

Depth of innovation. Modular concepts.
Technological leadership.
HELLA has established a leading global position through diligence, creativity and precision quality. For over one hundred years. HELLA and modern caravanning – a permanently successful relationship.

- → More safety due to innovations in lighting technology:
- → e.g. Xenon and LED.
- → More efficiency due to integrated electric and electronic components.
- → More equipment options, more brand characteristics and more trendsetting: e.g. through an extraordinarily deep range of products and modular systems.
- → More safety in production and use: due to original equipment quality, synergies from developments in the international car industry and zero error quality management.

On site HELLA Support.
We don't only see ourselves as a quality supplier, but also as a development partner. If required, our developers and engineers can work on the optimum solution for your application with your teams on your premises. This speeds up workflows and clears the way for new standards. More technological freedom, more styling freedom, more room for rationalisation: That is HELLA.

Have a good trip to the future.

We are the 100% service provider for innovative individual customising and for 100 % reliability.

New dimensions in the lighting segment:
After decades of standard solutions, HELLA has continually broken new grounds – and became Number 1 for customer-specific solutions. The lead is growing because there are cutting-edge solutions available that only HELLA has to offer. We are able to cover applications for all global brands due to the work done in our own lighting laboratory.

New dimensions in the field of modular concepts:
Engineers, designers and controllers are equally delighted with our modular system. It provides you with the whole spectrum of design possibilities – from futuristic through dynamic, sporty, business-like, elegant, classic to retro.

Our range offers solutions that no one else can offer. At HELLA, you can take your pick from our entire line of modern headlights and lights, ranging from: halogen, Bi-Halogen®, Xenon, Bi-Xenon®, LED, light transmitters, Ellipsoid and FreeForm FF. You give us the installation opening and select the design, we will build your module. In small production runs too, of course.

New dimensions of modular speed:
We want to be faster than everyone else. An optimised time-to-market process from the first lines on a notebook through to series delivery allows us to create your individual design in no time.

New dimensions in the field of electrics and electronics:
HELLA covers the whole range of possibilities. From modern standard solutions to custom application development. And we remain true to our motto “More safety and more comfort” in this case, too. HELLA offers the combination of safety stoplight and rear view camera in one solution, as well as applications for closing and locking aids for storage compartment flaps and caravan doors. Also new: The switch generation with 6,000 lasering and illumination possibilities.

So take us with you on your journey to the future.
Because like you, we love real freedom.

1965

HELLA universal 2-chamber combination rear light series 1305 with lens reflectors using bulb technology in the smallest conceivable design.

1973

Further development of the 3-chamber combination rear light series. The 1131 series is launched in a very progressive design for the time.

1978

The HELLA universal 3-chamber combination rear light series 1140 – designed as a surface-mounted solution for towed vehicles such as trailers – becomes the lighting standard for caravans.

1998

The modular light series 122 mm for individual and combined lights is launched. The series will be enhanced on an ongoing basis in the next few years through pattern-free lights and LED lights.

2000

The customer-specific multi-function light with pattern-free lens adorns hobby caravans.

2002

The Caraluna success story continues. The first HELLA specific light with pattern-free lens for caravans and motorhomes is launched - Caraluna II for horizontal surface-mounting.

2006

Customer-specific developments for hobby caravans and motorhomes, Hymer motorhomes and Fendt caravans and motorhomes. Upgrade to Caraluna multi-function light series: Caraluna II Plus with combined indicator/reversing spotlight.

2008

A success story continues: The Caraluna Modular for vertical flush-mounting joins the Caraluna family. Pattern-free and coloured lens with modular reflector inserts, which allow for a customised appearance, installation with bulb-based or LED technology and horizontal flush-mounting.

2009

Upgrade round light 122 mm in LED and new member of the Caraluna family: Caraluna Vertical with chrome effect.

Quick trip to the past

The first “touring cars” appeared as early as the mid-19th century. The sometimes quite luxuriously equipped predecessors of the modern caravan were invented in Britain. Initially they were horse-drawn, but shortly after the invention of the motor vehicle the first petrol-driven coaches were hitched to the travel cars. There has been a close relationship between HELLA and the automobile for over one hundred years, and this naturally includes caravans and motorhomes.

Here is a quick look at our most recent shared past.

1986

The HELLA universal 4-chamber combination rear light series 4460 as surface-mounted solution with lens pattern becomes established. The design size increases in line with the more stringent safety requirements for more light output.

1989

The HELLA universal 3-chamber combination rear light series 6459 with lens pattern finds its way into the caravan industry. The light sweep allows it to be flush-mounted near the outer edges. This design effect gives a whole new dimension to motorhome and caravan contours.

1996

Birth of the first multi-function light for the motorhome and caravan industry. As well as integrating all the light functions, the triangular reflector required is also integrated in horizontal installation position. The HELLA Caraluna I becomes a sign of quality and brand recognition for a whole industry.

2003

Customer-specific multi-function light Fendt Caravan with chrome effect due to the use of a transparent lens with high-sheen vapour-plated reflectors.

2004

The success story of Caraluna II will be further developed: The Caraluna II with chrome effect and transparent lens with high-sheen vapour-plated reflectors is launched on the market.

2005

Modular light series Agroluna for individual and combined lights with pattern-free lenses and bulb-based technology is launched. Customer-specific multi-function light Bürstner and Chateau.

2010

HELLA matches the lighting technology inside the light with the fluid exterior body design. A ring-shaped 3D body around the edge which generates a “glowing look” due to the use of cutting-edge LED technology takes over the taillight function and gives the rear end of the new Fendt Brilliant a unique and unmistakable appearance.

2011

HELLA adapts the lighting technology of a highly innovative lighting geometry for the Hobby Premium Caravan. Two opposing "Hockey stick" shaped 3D lights, with LED technology for taillight and stop light, highlight the successful shape of the vehicle. The remaining conventionally solved functions are installed behind an elegant stripe pattern and go into the handle which overlaps into the lights. Simply premium. A milestone in caravan construction.

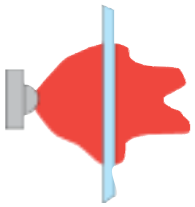
2011

Two opposing eyebrow-shaped lights installed using innovative light-transmitting technology in LED technology for the taillight give Knaus motorhomes of the last generation an unmistakable face. The lights are impressive due to the sophisticated detailing inside. According to the motto: You will see motorhomes with different eyes.

More design freedom through LEDs

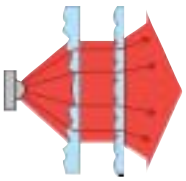
The use of LEDs gives design engineers much greater design freedom. Ergonomic aspects can be implemented more easily.

Diverse technical options through LEDs.
Depending on the product or customer requirements, HELLA has been installing LEDs in different optical lighting systems. Here are some examples of combination rear lights:



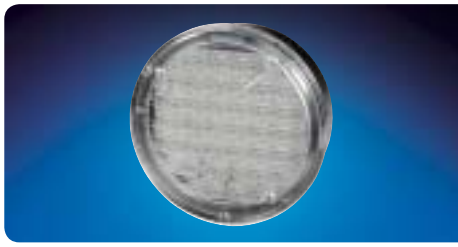
Direct light

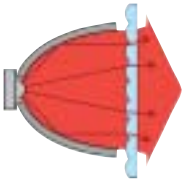
- → Spot-like appearance
- → No optical system necessary
- → Max. distance from 2 LEDs = 15 mm



Fresnel Systems

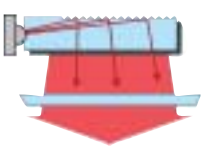
- → Suitable for all functions
- → Homogeneous appearance





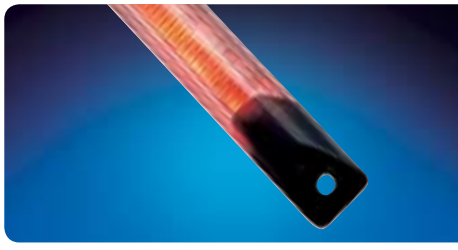
Reflector with pattern/ lens without pattern

- → Greater efficiency
- → Brilliant appearance



Light transmitting systems

- → Elongated appearance
- → Homogenous illumination
- → Adapted to curved exterior shape



LED indicators and the patented failure check

Legal requirement in all ECE states
The indicators on vehicles registered for use on public roads must be monitored. An indicator failure must be communicated to the driver visually or acoustically. In all ECE states, the following holds: A potential failure of the indicator must therefore be monitored by the vehicle. Manufacturers use different control methods for this purpose. However, the failure controls in use today cannot detect simple LED lights and display an error when they are used. All HELLA LED indicators have integrated electronics for failure control. The indicators monitor themselves. They generate an impulse that is evaluated by the electronic ballast. This ballast simulates a 21W bulb which allows them to be used with conventional indicators.

Even if a single LED fails, the light will be shown as faulty and the pulse will no longer be generated. In this case, the ballast switches off the bulb simulation and the indicator reports the fault to the driver.

Safe conversion to LED indicators is now possible using patented HELLA electronics
HELLA supplies electronic ballasts for all HELLA LED indicators which makes it possible to convert the indicator failure display for various vehicles. This is necessary if the vehicle manufacturer does not guarantee indicator bulb failure checking via the vehicle's electrical system.

The method is patented by HELLA. There are currently three different ballasts and several different LED indicators available.

LED-light failure check and correct electrical connection

Operation of the LED light with AC voltage or synchronised DC voltage is not permitted. The individual light functions may only be operated with a vehicle fuse of max. 3 A.

Due to the low watt output of LED lights, which are distinctly different from a bulb version, problems can arise in bulb failure control when operating traction vehicles.

As checking of the indicators is required by law, we recommend operating the light only in conjunction with the indicator control unit, HELLA part no. 5DS 009 552-... .

Furthermore, some traction vehicles detect other light functions. This represents a vehicle comfort function that is not required by law and does not release the driver from his obligation to visually inspect the lighting equipment. Even in this case, low outputs can lead to misdiagnoses (instrument panel in the cab shows a light failure even though it is working fine).

Should misdiagnoses, as described above, occur while operating your traction vehicle, please contact the traction vehicle manufacturer.

FRONT LIGHTING

DynaView® Evo2	Page	11
Daytime running light	Page	12 – 13
90 mm low beam headlights and spotlights	Page	14 – 20
90 mm fog light and daytime running lights	Page	21
50 mm headlight	Page	22
Micro DE headlights	Page	23
Position lights	Page	24 – 25
Indicator and position lights	Page	26 – 27
Headlight cleaning systems	Page	28
Ultrasonic headlight range adjustment	Page	29

DynaView® Evo2

A new lighting era
DynaView® Evo2 combines the cornering light and fog light safety functions in compact round auxiliary lights which can be universally installed in many different vehicles. When the low beam is switched on, the right or left cornering light is activated automatically and immediately when the indicator is actuated or when the vehicle drives round a bend at a speed of less than 40 km/h.

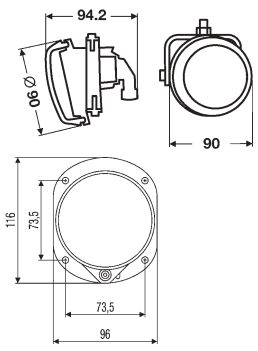
A yaw rate sensor measures the vehicle's angular acceleration and triggers the turn-on signal when the car drives through a curve. At the end of the curve, a dimmer softly fades the extra light. If the reverse gear is engaged, both cornering lights are switched on and ensure broad and bright illumination of the areas along the left and right of the vehicle.

"The cornering light is switched off during normal driving situations on a straight stretch of road."

"When turning a corner or driving slowly through a curve (up to a speed of 40 km/h), the cornering light is turned on automatically."

"When driving round a bend up to a speed of 40 km/h, the respective headlight is switched on automatically."

"In foggy conditions, the cornering light can be switched on manually (both sides) as a fog light."



DYNAVIEW® EVO 2 INC. H7 BULB	
with holding bracket, 12 V	
Set incl. control electronics and harness	**1N0 009 295-801**
individual left	**1N0 009 295-011**
individual right	**1N0 009 295-021**

Type approval E1 1951,
ECE R119 cornering light,
ECE R19 fog light B series 02 / B series 03

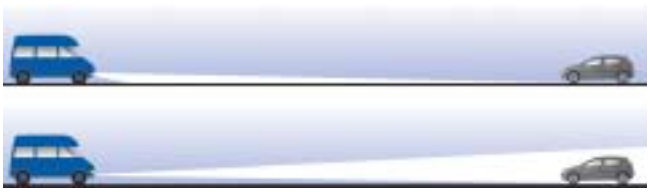
CONNECTOR PLUG SET	
DynaView® Evo2	
for 20 headlights	**8JD 156 151-807**
Harness	**8KB 163 160-801**
Control electronics	**5DF 009 244-007**

Daytime running light

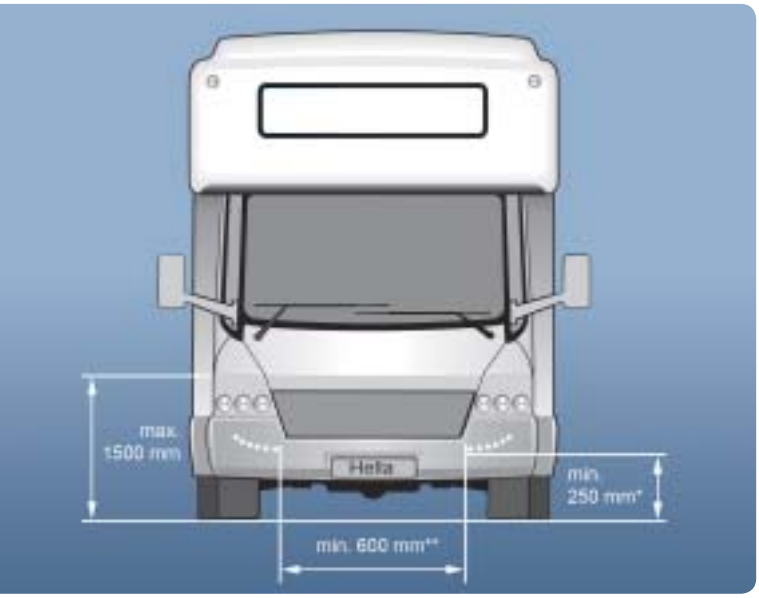
Benefits of the daytime running light
The daytime running light provides a decisive safety advantage in road traffic and reduces the number of accidents which result in serious injuries by 58%*.

For this reason, and long before the introduction of any legal requirement, HELLA developed daytime running lights to increase driving safety.

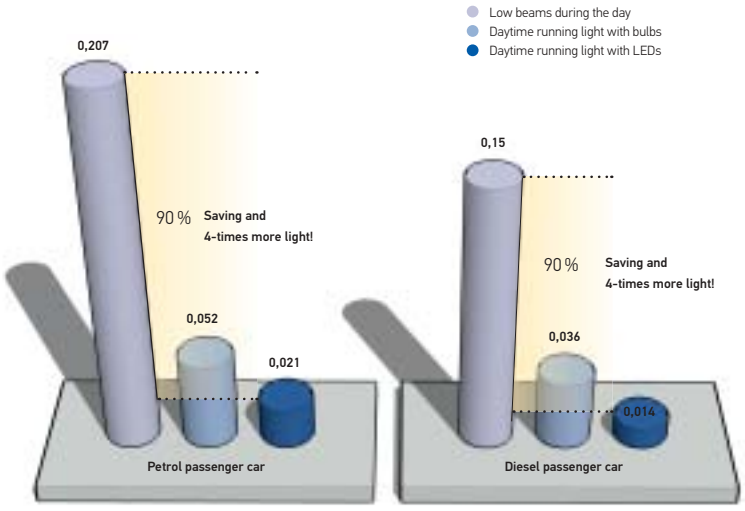
Daytime running lights are safer than low beams.
The HELLA daytime running lights generate a passively radiating white signal light. This enables the vehicle to be seen earlier and better by other road-users. HELLA thus ensures extra reaction time and offers a noticeable safety advantage.



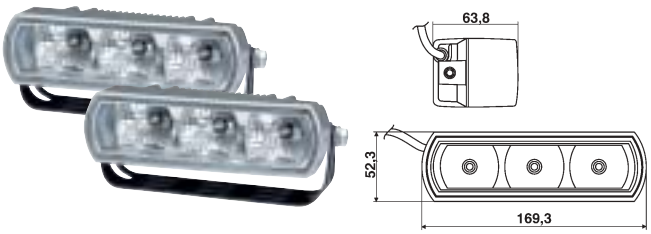
* Study carried out by the SWOV-Institute for Road Safety Research on behalf of the EU.



Comparison low beams and daytime running lights



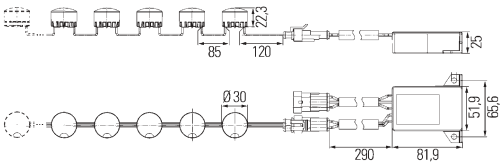
Source: BAST (Bundesanstalt für Straßenwesen = German Road Traffic Authority)



LED DAYTIME RUNNING LIGHT SET, RECTANGULAR DESIGN	
2 lights including harness, universal bracket, 3 high-performance LEDs per light, multi-voltage 9-33V 12 V/5.5 W, current consumption = approx. 2.18 A	
Set for surface-mounting	**2PT 009 496-801**
Individual light without bracket, DRL with PO function	**2PT 009 496-007**

Type approval E1 2344

Daytime running light



LEDAYFLEX LED DAYTIME RUNNING LIGHT

Adaptation to the vehicle contour within the context of type-approved surface-mounted systems, extremely flat module design height (Ø 30 mm, depth 22.3 mm), modern design combined with LED power, 30 x longer service life than H7 bulbs, high-performance LEDs for best light output, lights up automatically when ignition is switched on.

5 light modules for daytime running light	**2PT 010 458-801**
5 daytime running light/position light modules*	**2PT 010 458-811**
Harness, pre-assembled	**8KA 165 959-001**

Type approval E24 5852

CARAVANING
DESIGN AWARD 2008/2009
INNOVATIONS FOR NEW MOBILITY

LEDAYLINE®
LED DAYTIME RUNNING LIGHT SET WITH POSITION LIGHT FUNCTION

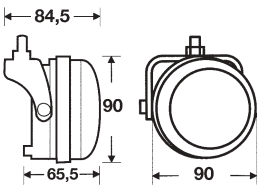
2 lights with five LED diodes per light and integrated relay for fully automatic switch-on, inc. professional harness and attachment material, multi-voltage 9-32 V, 12 V max. 5.5 W

Attachment set, 12 V	**2PT 010 043-801**
12 V, left	**2PT 010 043-011**
12 V, right	**2PT 010 043-021**

Type approval E1 2578

VEHICLE-SPECIFIC FINISHER, BLACK (ONLY DAYTIME RUNNING LIGHT)

Suitable for Fiat Ducato, Citroën Jumper, Peugeot Boxer. incl. connection harness, assembly material instructions.	**2PT 010 043-811**



LED DAYTIME RUNNING LIGHTS SET, ROUND DESIGN

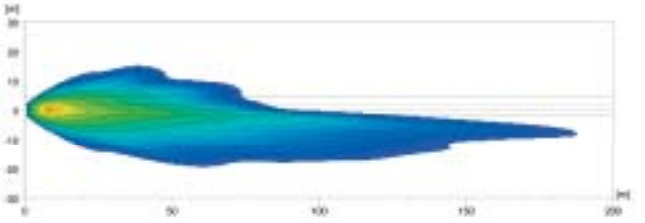
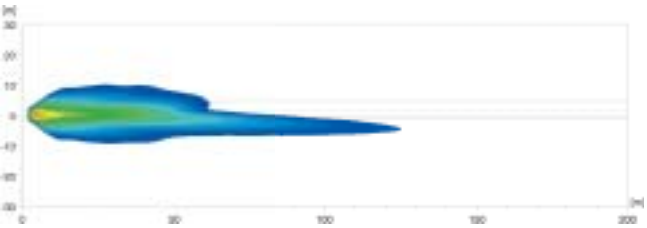
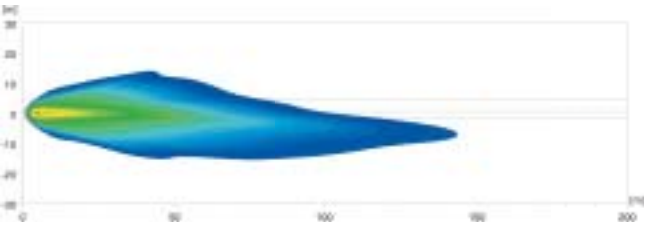
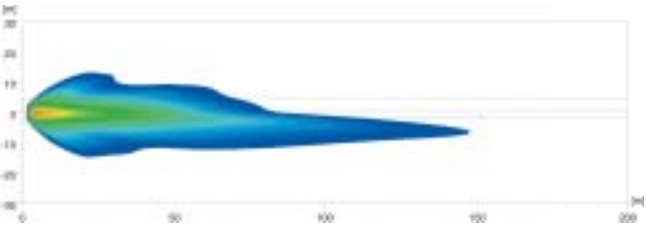
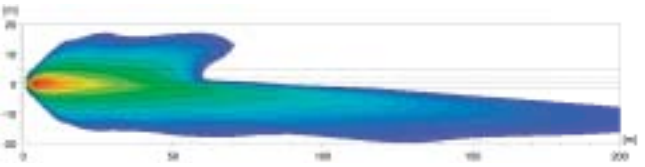
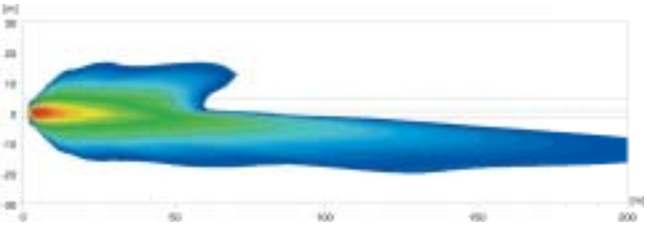
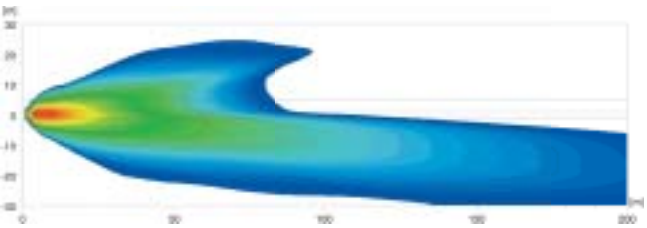
2 lights including harness, universal bracket,
3 high-performance LEDs per light, multi-voltage 9-33V
12 V/5.5 W, current consumption = approx. 2.18 A

Set for surface-mounting	**2PT 009 599-811**
Individual light without bracket, left without bracket, right without bracket, with PO function, left without bracket, with PO function, right	 **2PT 009 599-011** **2PT 009 599-021** **2PT 009 599-031** **2PT 009 599-041**
Universal carrier frame	**9AH 165 968-001**
Harness, pre-assembled	**8KA 165 959-001**

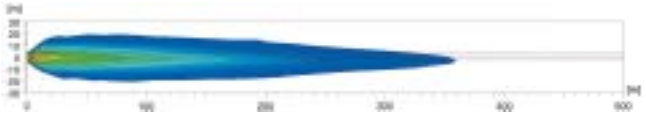
Type approval E1 2372

Find out more about further variants, legal requirements and fitting regulations at www.daytime-running-light.com or www.hella.com/lightshow.
* When LEDayFlex is used as a position light, the standard position light must be permanently disabled in accordance with ECE-R 48.

Comparison between LED, halogen and Xenon low beam

	PRODUCT IMAGE	DESCRIPTION	LIGHTING
LED		LED low beam Page 16	
HALOGEN		Classic Halogen low beam Page 19	
		Premium Halogen and Bi-Halogen® Low beam Page 17	
		Performance Halogen low beam Page 18	
XENON		Classic Xenon low beam Page 19	
		Classic Bi-Xenon® Low beam Page 19	
		Premium Bi-Xenon® Low beam Page 17	

Comparison between halogen and Xenon spotlight

	PRODUCT IMAGE	DESCRIPTION	LIGHTING
HALOGEN		Classic Halogen spotlight Page 19	
		Premium Bi-Halogen® spotlight Page 17	
		Performance Halogen spotlight Page 18	
XENON		Classic Xenon spotlight Page 19	
		Classic Bi-Xenon® spotlight Page 19	
		Premium Bi-Xenon® spotlight Page 17	

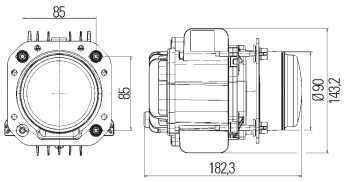
90 mm Premium LED module

The light colour, which is similar to daylight, offers more safety and comfortable, fatigue-free driving. Three white high-performance LEDs function as a light source. The light is projected through the 70 mm DE lens homogeneously on the street.

The service life of the headlight, normally more than 15,000* real operating hours, offers major cost savings when it comes to maintenance and repair costs compared to other light systems**.

Exclusive automobiles distinguish themselves through their cutting-edge technology.

The HELLA LED low beam module is so high-tech that the technological advance in each turn-on action makes it clear and thus creates a visible distance to the ground.



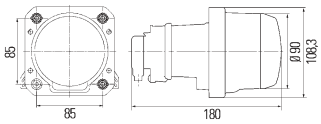
LED LOW BEAM HEADLIGHT	
Maintenance-free module for normally more than 15,000 operating hours, very homogenous light and rapid start time, 35 watt power consumption, no movable parts, passive cooling system, plastic covering pane, vehicle security system: 5 A	
Right-hand traffic	**1BL 010 820-001**
Left-hand traffic	**1ML 010 820-011**
Carrier frame	**9AH 169 580-011**

Type approval (E1) ES 3159 and LES 3160

* at about 50°C ambient temperature
** In the ECE R48 area of application, due to the legal situation, it is necessary to ensure failure control for a LED headlight in the vehicle's electrical system through suitable measures.

90 mm Premium

High-end illumination. Low beam and high beam from a single headlight module, choice of Xenon or halogen technology. Pattern-free glass cover lens. High-quality aluminium reflector. With Xenon, waterproof ballast. Connection using 0.5 metre shielded supply cable with detachable plug-type connection.

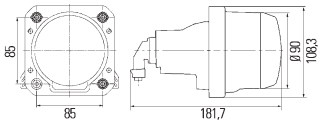


BI-XENON HEADLIGHTS FOR LOW BEAM HEADLIGHTS AND SPOTLIGHTS, 12 V

Xenon low beam headlight and spotlight in one lamp unit, Xenon low beam light only permitted with headlight range adjustment and lens cleaning system.

Right-hand traffic, D2S, ECE	**1AL 009 997-001**
Left-hand traffic, D2S, ECE	**1LL 009 997-011**
Right-hand traffic, D2S, SAE	**1AL 009 997-021**

Type approval E1 2484 and E1 2485

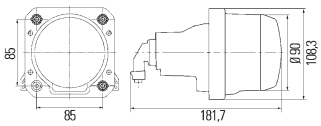


BI-HALOGEN, MAIN HEADLIGHT FOR LOW BEAM HEADLIGHTS AND SPOTLIGHTS, 12 V

Halogen low beam headlight and spotlight in one lamp unit.

Right-hand traffic, H7, ECE	**1AL 009 998-001**
Left-hand traffic, H7, ECE	**1LL 009 998-011**
Right-hand traffic, H9, SAE	**1AL 009 998-021**

Type approval E1 2484 and E1 2485



HALOGEN LOW BEAM HEADLIGHT, 12 V

Metal reflectors with clear DE lens. Ideal in combination with the matching spotlights and fog lights, including light source.

Right-hand traffic, H7, ECE	**1BL 009 999-001**
Left-hand traffic, H7, ECE	**1ML 009 999-011**
Right-hand traffic, H7, SAE	**1BL 009 999-021**

Type approval E1 2486 and E1 2487

Info

Would you like to combine modules of the Premium and Performance series without having to commit yourself right at the start of the vehicle design process?

Then use the tried-and-trusted Premium carrier frame structure as a basis. This is compatible for the future, too.

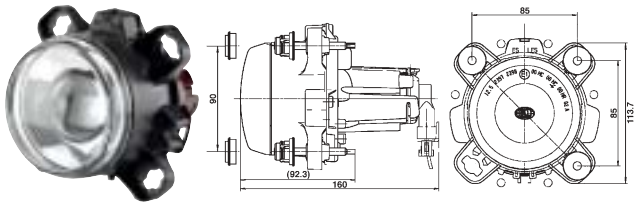
Alongside the complete Premium range, the following modules from the Performance series can also be used.

MODULE ATTACHMENT

90 mm spotlight with PO, 12 V bulb, Right-hand traffic	**1KO 247 043-117**
90 mm spotlight 12 V bulb, Right-hand traffic	**1KO 247 043-127**
90 mm spotlight 12 V bulb, Right-hand traffic	**1BL 247 042-177**
Connector for H1 bulb low beam headlight	**8JD 156 151-807**
Connector PO for spotlight module	**8JD 156 150-807**

90 mm Performance

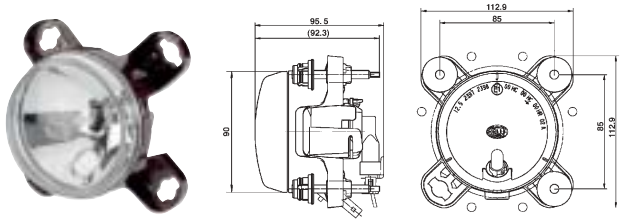
Optimised illumination. Modules in enhanced quality for use on long journeys.
With splashwater-proof plug-type connector.



HALOGEN LOW BEAM HEADLIGHT, 12 V	
Module headlight with aluminium reflector and clear DE lens behind pattern-free glass cover lens	
Right-hand traffic, H1	**1BL 247 042-007*** **1BL 247 042-001***
Left-hand traffic, H1	**1ML 247 042-027*** **1ML 247 042-021***

Type approval E1 2397 and E1 2398

* Right-hand traffic variant can be switched from asymmetrical low beam to symmetrical light. Left-hand traffic variant can be switched from symmetrical to asymmetrical.



HALOGEN SPOTLIGHT, 12 V	
Module headlight with aluminium FF reflector and clear DE lens behind pattern-free glass cover lens	
with position light, H1	**1K0 247 043-007** **1K0 247 043-001**
without position light	**1K0 247 043-017** **1K0 247 043-011**

Type approval E1 2397

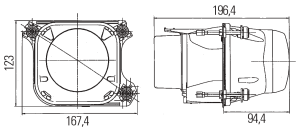
Info

If you have been using Classic modules so far, you can easily upgrade these to Performance modules.

The following Performance modules have the same module attachment as the Classic module and are therefore compatible and easy to replace – without having to modify the existing Classic carrier frame structure first.

MODULE ATTACHMENT	
90 mm spotlight with PO, 12 V bulb, Right-hand traffic	**1K0 247 043-157**
90 mm spotlight 12 V bulb, Right-hand traffic	**1K0 247 043-167**
90 mm spotlight 12 V bulb, Right-hand traffic	**1BL 247 042-217**
Connector for H1 bulb low beam headlight	**8JD 156 151-807**
Connector PO for spotlight module	**8JD 156 150-807**

90 mm Classic



BI-XENON - HEADLIGHTS, 12 V
DIPPED- AND HIGH BEAM IN ONE HEADLIGHT

Module headlight with integrated ignition unit and pattern-free glass cover lens.
High-quality metal reflector. Waterproof Xenon electronic ballast.
1 metre shielded supply cable with detachable plug-type connections.

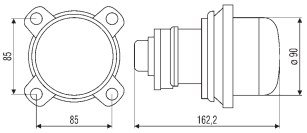
Right-hand traffic	**1AL 008 934-001***
Left-hand traffic	**1LL 008 934-011***
SAE (USA) right-hand traffic	**1AL 008 934-041**

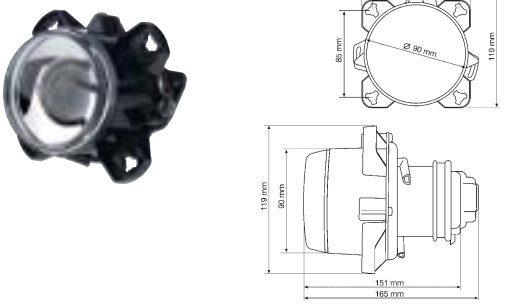
Type approval E1 1677

ACCESSORIES FOR BI-XENON

Plug for ballast	**8JA 990 295-127**
Plug for switching spotlight	**8JD 162 211-801**

* Right-hand traffic variant can be switched from asymmetrical low beam to symmetrical light. Left-hand traffic variant can be switched from symmetrical to asymmetrical.





LOW BEAM HEADLIGHT, 12 V

Module headlight with pattern-free glass cover lens, magnesium reflectors and clear DE lens.

Xenon low beam headlight

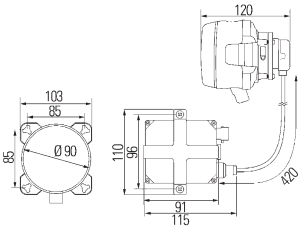
D2 S	**1BL 008 194-007**
D2S, USA version	**1BL 008 194-047**

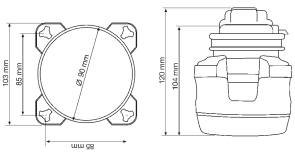
Type approval E1 917

Halogen low beam headlight

H7, right-hand traffic	**1BL 008 193-001**
Left-hand traffic	**1LL 008 193-117**
H9, USA version	**1BL 008 193-021**

Type approval E1 917





SPOTLIGHT, 12 V

Module headlight with magnesium FF reflectors and pattern-free glass cover lens

Xenon spotlight

with position light	**1K0 008 192-007**
without position light	**1K0 008 192-017**

Type approval E1 917

Halogen spotlight

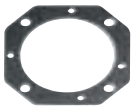
with position light	**1K0 008 191-001**
without position light	**1K0 008 191-011**
with position light, USA version	**1K0 008 191-131**
without position light, USA version	**1K0 008 191-051**

Type approval E1 917

90 mm Accessories

PREMIUM CARRIER FRAME	
coated black	**9AH 169 580-011**

PERFORMANCE CARRIER FRAME	
coated black	**9AH 254 228-017**



CLASSIC CARRIER FRAME	
for low beam headlights and spotlights	**9AH 157 659-007**

CONNECTOR PLUG SET	
Premium, Performance and Classic for Xenon ballasts, halogen, bi-halogen and DynaView® Evo2	
for 20 headlights	**8JD 156 151-807**

CONNECTOR PLUG SET	
Performance and Classic spotlights with position light	
for position light, for 20 headlights	**8JD 156 150-807**

CLASSIC CONNECTOR PLUG SET	
H9 008 191-..., 008 193-..., 009 998-... and for USA version	
for 20 headlights	**8JD 158 175-807**

ACTUATOR MOTORS FOR PREMIUM HEADLIGHT RANGE ADJUSTMENT	
for 12 V halogen headlights	**6NM 007 282-221**
for 12 V Xenon headlights	**6NM 007 282-231**
Accessories for actuator assembly	**8HG 138 620-007**

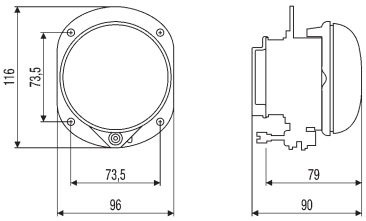
ACTUATOR MOTORS FOR CLASSIC HEADLIGHT RANGE ADJUSTMENT	
for 12 V halogen headlights	**6NM 007 282-227**
for 12 V Xenon headlights	**6NM 007 282-231**

RUBBER CAPS	
for 90 mm halogen H7, Classic	
Low beam headlight 008 193-..., non-ventilated	
flat version for angled plugs	**9GH 152 654-012**
deep version for female connector housing	**9GH 145 943-012**

RUBBER CAPS	
for 90 mm halogen H7, Classic	
Spotlight 008 191-... ventilated	
flat version for angled plugs	**9GH 152 654-007**
deep version for female connector housing	**9GH 145 943-001**
Halogen H9: Sealed through connector plug system, no cap required	

For information on automated headlight range adjustment and headlight cleaning system, please refer to page 28 and 29.

90 mm Fog and Daytime Running Light

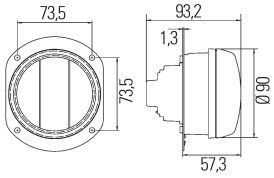


FOG LIGHT 90 MM, 12 V

Minimum installation dimensions for a discreetly convincing lighting design. Aluminium reflectors with clear lens. Ideal in combination with the matching 90 mm spotlights and low beam headlights.

Halogen fog light	**1N0 008 582-007**
Accessories: Rubber caps	**9GH 158 051-007**

Type approval E1 1342, ECE R19 B Series 02, B Series 03

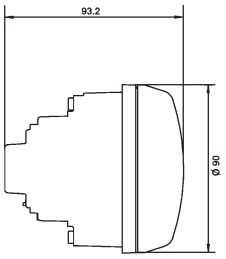


90 MM INDICATOR / POSITION LIGHT COMBINATION

with Kartoval indicator/position light

	2BE 010 102-001

Type approval E1 2586

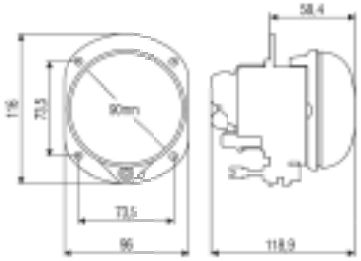


90 MM INDICATOR / POSITION LIGHT COMBINATION

Module headlight with pattern-free glass cover lens, 12 V with P 21 W Longlife bulb and Kartoval® LED

with daytime running light/position light	**2BE 010 102-101**

Type approval E1 2586, ECE R87, ECE R7

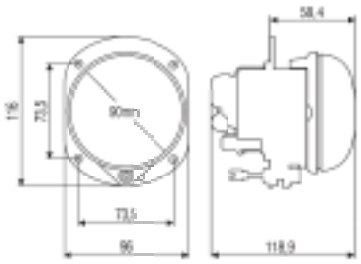


90 MM DAYTIME RUNNING LIGHT / SPOTLIGHT COMBINATION

Module headlight with pattern-free glass cover lens, 12 V with H 15, 55 W / 15 W bulb, with carrier frame.

with daytime running light/spotlight	**1F0 010 293-001**

Type approval E1 2680, ECE R87, ECE R112



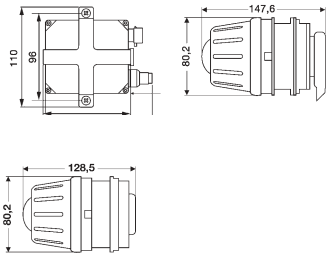
90 MM DAYTIME RUNNING LIGHT / FOG LIGHT COMBINATION

Module headlight with pattern-free glass cover lens, 12 V with H 15, 55 W / 15 W bulb, with carrier frame.

with daytime running light/fog light	**1N0 010 294-001**

Type approval E1 2681, ECE R19 B Series 02, B Series 03, ECE R87

50 mm Premium

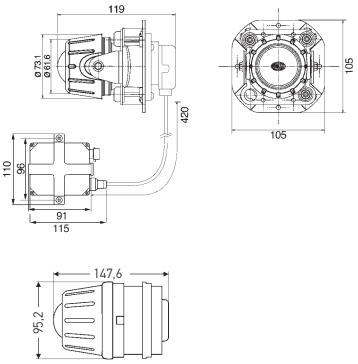


LOW BEAM HEADLIGHT, 12 V

Installation frame for 3-point attachment, adjustable from the front and rear, including D2S Xenon bulb and electronic ballast

Xenon Right-hand traffic, D2S	**1BL 009 071-047**
Halogen right-hand traffic, H7 Left-hand traffic, H7	**1BL 009 071-007** **1ML 009 071-017**

Type approval E1 1903 and E1 1904



SPOTLIGHT, 12 V

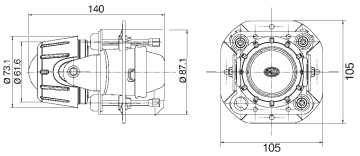
3-point holder, adjustable using setting screw, including D2S Xenon bulb and electronic ballast

Xenon rear carrier frame is not included in the scope of supply (see accessories), D2S	**1F0 008 390-317**

Type approval E1 1120

Halogen H9	**1KL 009 486-001**

Type approval E1 2198



FOG LIGHT, 12 V

3-point holder, adjustable using setting screw, rear carrier frame is not included in the scope of supply (see accessories)

H7	**1NL 008 090-317**

Type approval E1 877, ECE R19 B Series 02, B Series 03

CARRIER FRAME (not for halogen spotlights)

a) without LWR holder	**9AH 161 786-017**
a) with LWR holder	**9AH 161 784-017**

CONNECTOR PLUG SET

Rubber cap for 20 headlights	**8JD 156 150-807**
H9 plug for 20 headlights	**8JD 158 175-807**

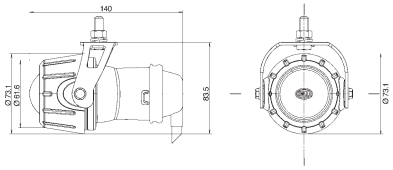
ACTUATOR MOTORS FOR HEADLIGHT RANGE ADJUSTMENT

for 12 V halogen	**6NM 007 282-221**
for 12 V Xenon	**6NM 007 282-231**
Actuator assembly set	**8HG 183 586-001**

PLASTIC CAP

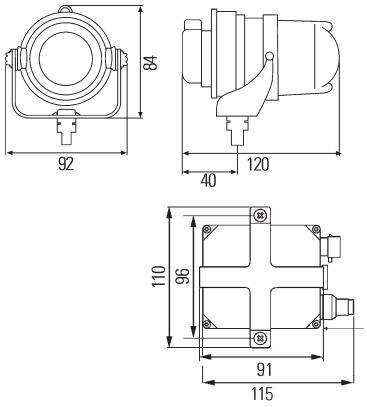
for fog lights	**6NM 007 282-227**
Rubber caps a) for halogen low beam headlights b) for fog lights	 **9GH 152 654-007** **9GH 147 009-007**

Micro DE headlights



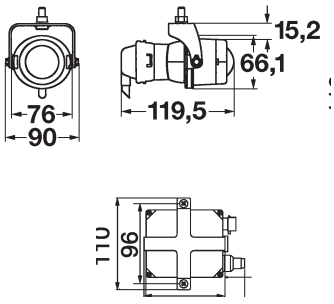
MICRO DE PREMIUM EDITION: FOG LIGHT	
Individual fog lights with 12 V bulbs, aluminium design finisher	**1NL 008 090-301**

Type approval E1 877, ECE R19 B Series 02, B Series 03



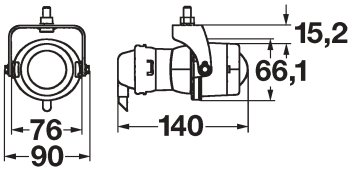
DE XENON PREMIUM EDITION: XENON SPOTLIGHT	
Ref. 17.5, 12 V, black housing colour, inc. D2S Xenon bulb and electronic ballast, aluminium design finisher	
Set	**1F0 008 390-821**
Individual	**1F0 008 390-301**

Type approval E1 1120



DE XENON SPOTLIGHT	
DE spotlight set, with black decorative rings, gas discharge lamps and 12 V ballast	
Spotlight set	**1F0 008 390-801**
Individual	**1F0 008 390-001**

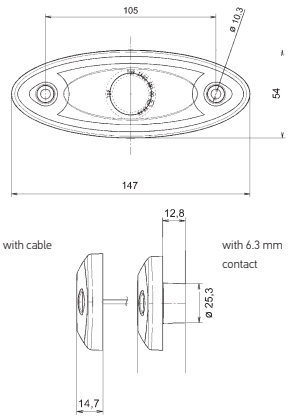
Type approval E1 1120



DE FOG LIGHT	
Fog light set	
with black decorative ring	**1NL 008 090-821**
with universal radio remote control and black decorative ring	**1NL 008 090-831**

Type approval E1 877, ECE R19 B Series 02, B Series 03

Position lights

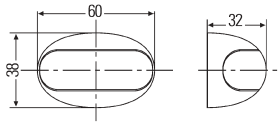


POSITION LIGHT

for surface-mounting, 12 V, modern night-time design and high level of safety due to maximum illuminated area

6.3 mm contact pin	
horizontal	**2PG 343 690-107**
vertical	**2PG 343 690-117**
500 mm cable	
horizontal	**2PG 343 690-301**
vertical	**2PG 343 690-317**

Type approval E24 5853

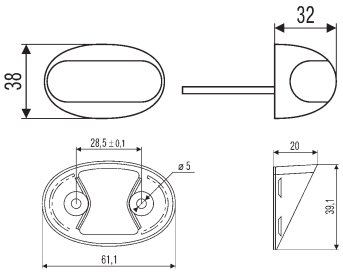


POSITION LIGHT

for horizontal surface-mounting

Black housing	
with 0.5 m cable, 10–33 V	**2PF 959 570-401***
with 5 m cable, 10–33 V	**2PF 959 570-411***

Type approval E4 7575 and e1 031721

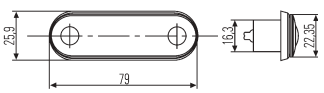


POSITION LIGHT

for horizontal surface mounting, 12 V/0.5 W, current consumption = approx. 0.04 A

White housing	
with 0.5 m cable, 10–33 V	**2PF 959 570-427***
with matching 25° adapter base, white (order separately)	**8HG 959 571-007**

Type approval E4 7575 and e1 031721



POSITION LIGHT

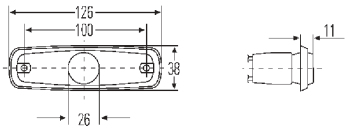
for horizontal or vertical surface-mounting,
12 V/0.5 W, current consumption = approx. 0.04 A

with 0.5 m cable, 10–33 V	**2PF 959 590-401***
with 5 m cable, 10–33 V	**2PF 959 590-411***

Type approval E4 7597 and e1 031721

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

Position lights

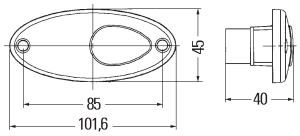


POSITION LIGHT WITH REFLECTOR

for horizontal or vertical flush-mounting,
with pre-fitted 12 V/3 W bulb

12 V	**2PF 962 964-041**
Seal (order separately)	**9GD 963 281-001**
Grommet (order separately)	**9GT 963 129-001**

Type approval E4 7499 and E4 3153



POSITION LIGHT WITH REFLECTOR

for horizontal installation,
with pre-fitted 12 V/5 W bulb and seal

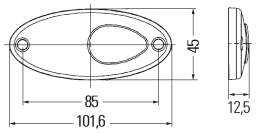
12 V	**2PG 964 295-011**

POSITION LIGHT WITHOUT REFLECTOR (NOT SHOWN)

for horizontal or vertical flush-mounting

12 V	**2PF 964 295-021**

Type approval E17 9806 and E17 811

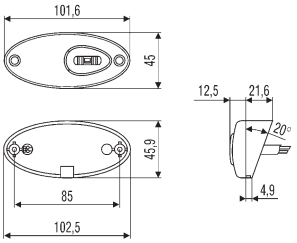


POSITION LIGHT WITH REFLECTOR

for horizontal surface-mounting, with 2 LEDs
12 V/0.3 W, current consumption = approx. 0.03 A

2PG 964 295-121*

Type approval E17 0301



POSITION LIGHT

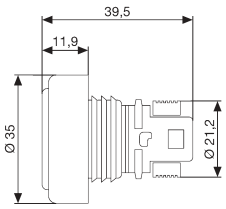
for horizontal surface-mounting, with loosely included 20° adapter base
12 V/0.3 W, current consumption = approx. 0.03 A

2PF 964 295-257*

Type approval E17 817

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

Indicator and position lights

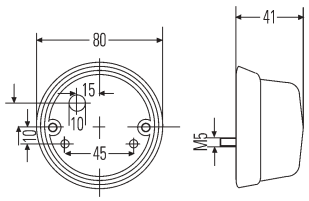


POSITION LIGHT WITHOUT REFLECTOR

for flush-mounting, clear lens, black plastic housing with adhesive film for sticking to the body. 2-pin cable, 150 mm long, open cable ends, with 2 white LEDs

12 V/0.6 W, current consumption = approx. 0.05 A	**2PF 340 825-041***

Type approval E4 11371

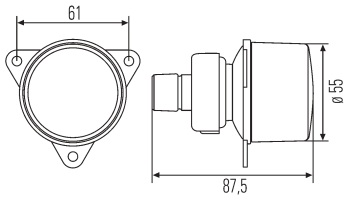


POSITION LIGHT

for surface-mounting, clear lens, 2 x M5 fastening screws

12 V	**2PF 001 259-631**
Intermediate piece for surface-mounting at 45° (order separately)	**8HG 002 247-001**

Type approval E1 21624



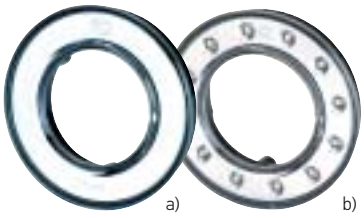
INDICATOR

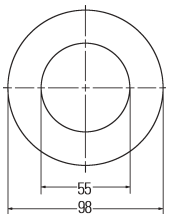
with fitted amber bulb 12 V/21 W	**2BA 008 221-107**

POSITION LIGHT (NOT SHOWN)

with fitted amber bulb 12 V/21 W	**2PF 008 221-011**
Harness with grommet	**8KA 152 134-007**

Type approval E1 878 and E1 879





A) CHROME-PLATED CIRCULAR FINISHER

for surface-mounting	**8XU 008 405-031**

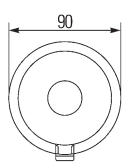
B) POSITION LIGHT USING LED TECHNOLOGY

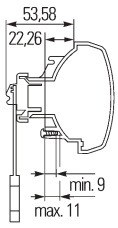
for surface-mounting 12 V/1.8 W, current consumption = approx. 0.15 A	**2PF 008 405-061***

Type approval E1 1696

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

Indicator and position lights

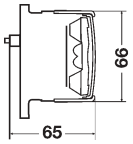




90 MM 12 V

		ECE	SAE (USA)
Indicator with amber bulb	**2BA 965 039-061**	X	■ ●
Position light	**2PF 965 039-071**	X	■ ●
with Kartoval indicator/position light	**2BE 010 102-001**	X	■ ●

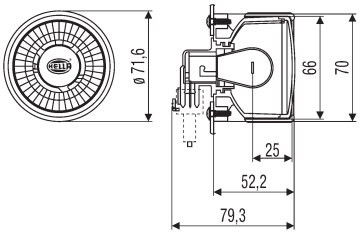
Type approval E4 10215



60 MM PREMIUM LED LIGHT, 12 V

		ECE	SAE (USA)
Position light, for flush-mounting, with 12 LEDs	**2PF 009 001-421***	X	■

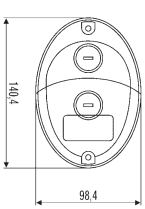
Type approval E4 12390

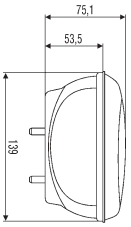


60 MM PREMIUM LIGHTS, 12 V

with clear lens, indicator with ...		ECE	SAE (USA)
yellow bulb	**2BA 009 001-071**	X	
yellow bulb	**2BA 009 001-091**		■
silver-coloured bulb	**2BA 009 001-201**	X	
Position light			
	2PF 009 001-081	X	■

Type approval E4 6546 and E4 7613





OVAL LIGHT SERIES, 12 / 24 V

for horizontal or vertical surface-mounting, with grommet. Caution: Depending on the installation position, the water drain opening must be broken out.		ECE	SAE (USA)
Indicator, without bulb	**2BA 343 130-057**	X	■ ●
Indicator/position light, without bulb	**2BE 343 130-007**	X	

Type approval E4 6550 and E4 10202

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

■ SAE type approval for vehicles < 2,032 mm width

● SAE type approval for vehicles < 2,031 mm width

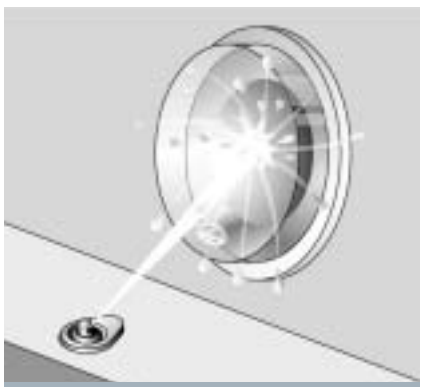
Headlight cleaning systems

Legislation prescribes the use of a headlight cleaning system when Xenon low beam headlights are used.
(The system can also be used for halogen headlights and spotlights.)

HELLA cleaning systems work according to the water jet principle, which manages without wipers and brushes by using the kinetic energy from the thick water drops to loosen and rinse away dirt particles from the lens.

Ø 50 MM	Ø 90 MM	Ø 90 MM
1BL 009 071-...	1KO 008 191-...	1LL 009 997-...
1ML 009 071-...	1KO 008 192-...	1BL 010 820-...
1F0 008 390-...	1BL 008 193-...	1ML 010 820-...
	1BL 008 194-...	1BL 247 042-...
	1AL 009 997-...	1ML 247 042-...
	1LL 009 997-...	1KO 247 043-...

These headlight cleaning systems are ECE type-approved for the following HELLA headlight series when installing in accordance to the enclosed assembly instructions.

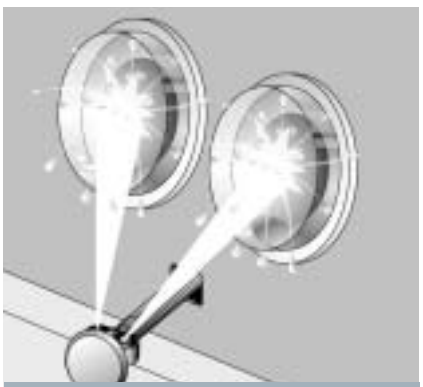


WITH FIXED NOZZLES

12 V	**8WS 008 549-001**
12 V, longer line	**8WS 008 549-011**

WITH TELESCOPIC INDIVIDUAL NOZZLES

12 V	**8WT 008 549-101**



WITH TELESCOPIC DOUBLE NOZZLES

12 V	**8WT 008 549-201**

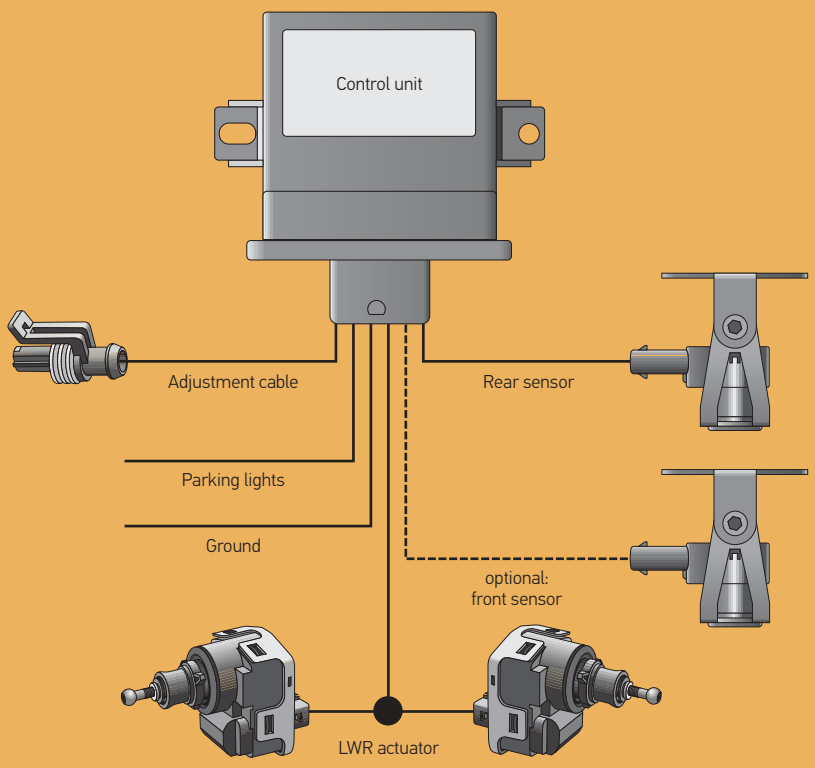
Ultrasonic headlight range adjustment (LWR)

The ultrasonic system is a headlight range adjustment system for 50 mm and 90 mm headlight modules for original equipment and upgrading vehicles with Xenon headlights.

The sensor in this system measures the distance from the vehicle undercarriage to the road and forwards the signal to the central control unit, which then optimally adjusts the headlights via the actuator motors on the Xenon headlights.

For more detailed information, see assembly instructions.

ULTRASONIC SYSTEM FOR HEADLIGHT RANGE ADJUSTMENT – OVERVIEW

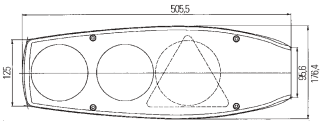


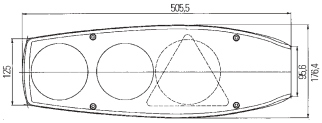
LWR	
12 V, one sensor (passenger car)	**8XX 010 315-001**
12 V, one sensor (3.5 t)	**8XX 010 315-101**

REAR LIGHTING

Combination rear light	Page	**31 – 42**
Clearance lights	Page	**43 – 44**
Safety stoplights	Page	**45 – 46**
Reflector	Page	**46 – 47**
Licence plate lighting	Page	**48 – 49**

Combination rear light

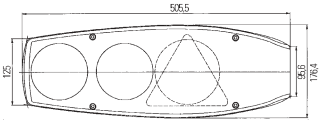


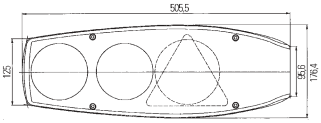


CARALUNA II PLUS COMBINATION REAR LIGHT

for horizontal flush-mounting, with 12 V bulbs, with combined indicator and reverse light module, can also be used as an upgrade of the basic version 2.. 343 419-... usable			ECE	SAE (USA)
with triangular reflector				
left	**2VP 343 590-017**	①②③④⑤⑥⑦	X	
right	**2VP 343 590-027**	①②③④⑤⑥⑦	X	
with round reflector				
left	**2VP 343 590-037**	①②③④⑥	X	
right	**2VP 343 590-047**	①②③④⑤⑥⑦	X	

Type approval E4 9836

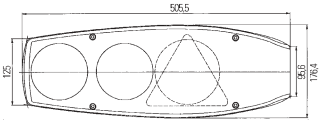


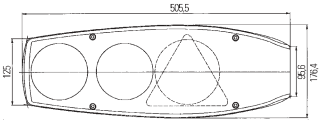


CARALUNA II PLUS CHROMIUM COMBINATION REAR LIGHT

for horizontal flush-mounting, with 12 V bulbs, in brilliant finish, with combined indicator and reverse light module, can also be used as an upgrade of the basic version 2.. 343 419-... usable, without side marker reflector light			ECE	SAE (USA)
with triangular reflector				
left	**2VP 343 590-057**	①②③④⑤⑥	X	
right	**2VP 343 590-067**	①②③④⑤⑥	X	
with round reflector				
left	**2VP 343 590-077**	①②③④⑤⑥	X	
right	**2VP 343 590-087**	①②③④⑤⑥	X	

Type approval E4 10217





CARALUNA II CHROMIUM COMBINATION REAR LIGHT

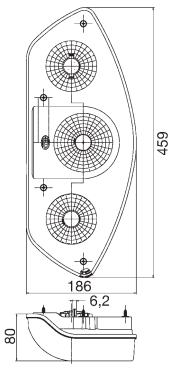
for horizontal flush-mounting, with 12 V brilliant-finish bulbs, without side marker reflector light			ECE	SAE (USA)
with triangular reflector				
left	**2VA 341 419-097**	①②③④⑥	X	
right	**2VP 341 419-107**	①②③⑤⑥	X	
left	**2VP 341 419-157**	①②③⑤⑥	X	
right	**2VA 341 419-167**	①②③④⑥	X	
with round reflector				
left	**2VA 341 419-077**	①②③④⑥	X	
right	**2VP 341 419-087**	①②③⑤⑥	X	
left	**2VP 341 419-177**	①②③⑤⑥	X	
right	**2VA 341 419-187**	①②③④⑥	X	

Type approval E4 10217

■ SAE type approval for vehicles < 2,032 mm width
● SAE type approval for vehicles < 2,031 mm width

① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

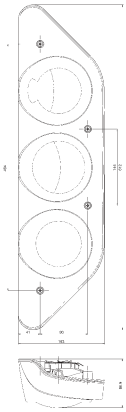
Combination rear light



CARALUNA VERTICAL

for vertical flush-mounting, with 12 V bulbs			ECE	SAE (USA)
Right-hand traffic				
left	**2SD 343 440-017**	①②③④	X	
right	**2SK 343 440-027**	①②③⑤	X	
Left-hand traffic				
left	**2SK 343 440-037**	①②③⑤	X	
right	**2SD 343 440-047**	①②③④	X	

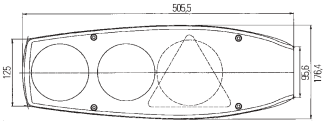
Type approval E17 0501

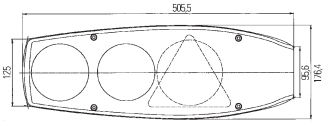


MODULAR CARALUNA COMBINATION REAR LIGHT

for vertical flush-mounting, with 12 V bulbs, with combined indicator and reverse light module and with integrated red side marker light			ECE	SAE (USA)
Red lens				
left	**2VP 343 520-017**	①②③④⑤⑦	X	
right	**2VP 343 520-027**	①②③④⑤⑦	X	
Glass-clear lens				
left	**2VP 343 520-057**	①②③④⑤⑦	X	
right	**2VP 343 520-067**	①②③④⑤⑦	X	

Type approval E4 12677



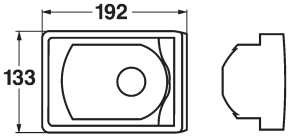


CARALUNA II COMBINATION REAR LIGHT

for horizontal flush-mounting, with 12 V bulbs			ECE	SAE (USA)
with triangular reflector				
left	**2VA 341 419-017**	①②③④⑤⑥⑦	X	X ■ ●
right	**2VA 341 419-027**	①②③⑥⑦	X	X ■ ●
left	**2VP 341 419-037**	①②③⑤⑥⑦	X	X ■ ●
right	**2VP 341 419-047**	①②③⑤⑥⑦	X	X ■ ●
right	**2VA 341 419-067**	①②③④⑥⑦	X	X ■ ●
with round reflector				
left	**2VA 341 419-117**	①②③④⑤⑥⑦	X	X ■ ●
right	**2VA 341 419-147**	①②③④⑤⑥⑦	X	X ■ ●
right	**2VP 341 419-127**	①②③④⑤⑥⑦	X	X ■ ●
left	**2VP 341 419-137**	①②③④⑤⑥⑦	X	X ■ ●

Type approval E4 9836

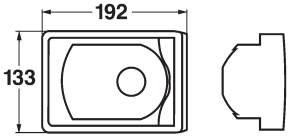
Combination rear light



LED COMBINATION REAR LIGHT				
12 V, for horizontal flush-mounting, brilliant finish			ECE	SAE (USA)
12 V/3 W, current consumption = approx. 0.25 A				
red lens	**2SB 008 982-307**	①②	X	
clear lens	**2SB 008 982-367**	①②	X	
12 V/2 W, current consumption = approx. 0.17 A				
clear lens	**2BA 008 982-347****	③	X	

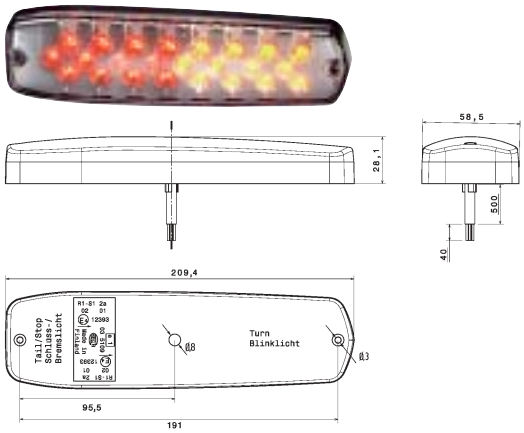
Type approval E17 10880

ACCESSORIES	
Seal for LED and bulb version	**9GD 159 740-007**



REAR LIGHT				
12 V, for horizontal flush-mounting, brilliant finish			ECE	SAE (USA)
	2SA 008 805-007	①	X	X ■ ●
for double attachment	**2DA 008 805-017**	②	X	X ■ ●
for double attachment	**2SB 008 805-027**	①②	X	X ■ ●
for double attachment, with clear lens	**2BA 008 805-057**	③	X	
	2NE 008 805-037	④	X	
	2ZR 008 805-047	⑤	X	X ■ ●

Type approval E4 10151



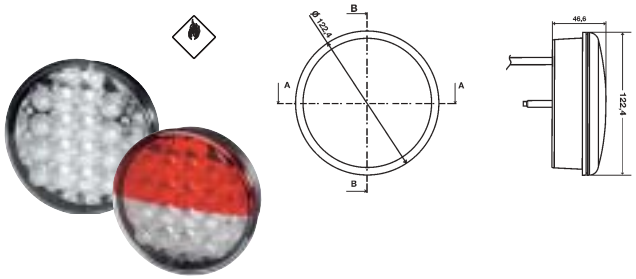
TAIL LIGHT/STOP LIGHT/DIRECTION INDICATOR	
for horizontal or vertical surface-mounting, with 24 LEDs, clear lens, with ECE and EMC type approval Taillight: 12 V/0.5 W, current consumption = approx. 0.04 A Stop light: 12 V/1 W, current consumption = approx. 0.08 A Indicator: 12 V/1.5 W, current consumption = approx. 0.125 A	
Multi-voltage 9—32 V, with 200 mm cable and 4-pin AMP plug 282 106-1, mating plug to be used AMP 282 088-1	**2SD 343 910-017***
with integrated AMP plug 282 106-1 in the housing	**2SD 343 910-027***

Type approval E4 12393 and e1 035109

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.
** With pulse for indicator failure check
■ SAE type approval for vehicles < 2,032 mm width
● SAE type approval for vehicles < 2,031 mm width

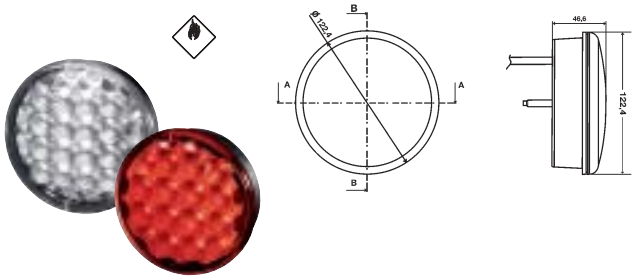
① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

Combination rear light



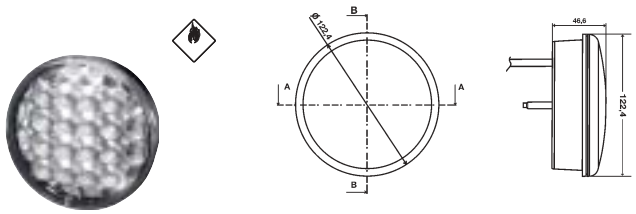
LED TAIL-STOP-INDICATOR LIGHT			ECE	SAE (USA)
for surface-mounting, redesign of the 964 169 series, with ECE, EMC and GGVS type approval, 24 LEDs, with patented electronics for indicator failure check Taillight: 12 V/1 W, current consumption = approx. 0.08 A Stop light: 12 V/2 W, current consumption = approx. 0.17 A Indicator: 12 V/2 W, current consumption = approx. 0.17 A				
with clear lens				
Multivolt 9–32 V	**2SD 344 200-001***	①②③	X	
with red / clear lens				
Multivolt 9–32 V	**2SD 344 200-071***	①②③	X	

Type approval E4 12371, E4 12658 and e1 03 4895



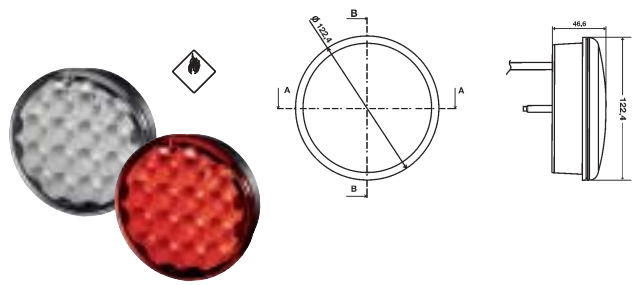
LED TAIL-STOPLIGHT			ECE	SAE (USA)
for surface-mounting Taillight: 12 V/1 W, current consumption = approx. 0.08 A Stop light: 12 V / 3 W, current consumption = approx. 0.25 A				
with clear lens				
Multivolt 9–32 V	**2SB 344 200-027***	①②	X	
with red lens				
Multivolt 9–32 V	**2SB 344 200-081***	①②	X	

Type approval E4 12658 and e1 03 4895



LED INDICATOR			ECE	SAE (USA)
for rear surface-mounting, with patented electronics for indicator failure check Indicator: 12 V/3 W, current consumption = approx. 0.25 A				
with clear lens				
Multivolt 9–32 V	**2BA 344 200-037***	③	X	

Type approval E4 12658 and e1 03 4895

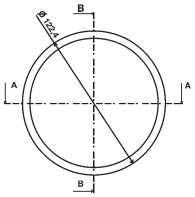


LED REAR FOG LIGHT			ECE	SAE (USA)
for surface-mounting Rear fog light: 12 V/2 W, current consumption = approx. 0.17 A				
with clear lens				
Multivolt 9–32 V	**2NE 344 200-061***	④	X	
with red lens				
Multivolt 9–32 V	**2NE 344 200-091***	④	X	

Type approval E4 14198 and e1 03 4895

= GGVS/ADR tested

Combination rear light



LED REVERSE LIGHT

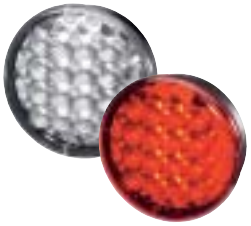
for surface-mounting Reverse light: 12 V/2 W, current consumption = approx. 0.17 A			ECE	SAE (USA)
Multivolt 9–32 V	**2ZR 344 200-051***	⑤	X	

Type approval E4 14198 and e1 03 4895

TAIL LIGHT/ STOP LIGHT/ DIRECTION INDICATOR

Without pulse for indicator failure check, with passive thermal management, 12 V			ECE	SAE (USA)
Lens				
clear	**2SD 344 200-201**	①②③	X	
clear	**2SD 344 200-207**	①②③	X	
red / clear	**2SD 344 200-211**	①②③	X	
red / clear	**2SD 344 200-217**	①②③	X	
red / yellow	**2SD 344 200-251**	①②③	X	
red / yellow	**2SD 344 200-257**	①②③	X	

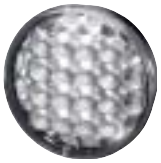
Type approval E4 12371



TAIL LIGHT/STOP LIGHT

Lens			ECE	SAE (USA)
clear	**2SB 344 200-221**	①②	X	
clear	**2SB 344 200-227**	①②	X	
red	**2SB 344 200-231**	①②	X	
red	**2SB 344 200-237**	①②	X	

Type approval E4 12658



DIRECTION INDICATOR

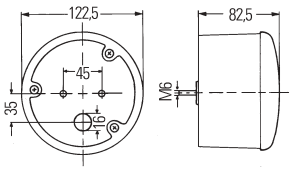
Lens			ECE	SAE (USA)
clear	**2BA 344 200-241**	③	X	
clear	**2BA 344 200-247**	③	X	

Type approval E4 12658

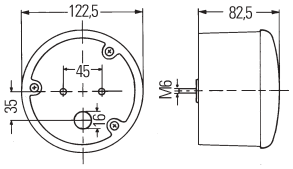
* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.
** With pulse for indicator failure check
■ SAE type approval for vehicles < 2,032 mm width
● SAE type approval for vehicles < 2,031 mm width

① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

Combination rear light



REAR LIGHT				
12 V, for surface or flush-mounting, brilliant finish			ECE	SAE (USA)
2BA 964 169-507	E17 653	③	X	X ■ ●
2SB 964 169-537	E17 816	①②	X	X ■ ●
2ZR 964 169-517	E17 2312	⑤	X	X ■ ●
2NE 964 169-527	E17 3809	④	X	



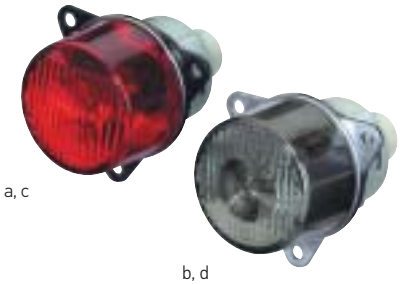
REAR LIGHT				
For 12 V and surface or flush-mounting. Depending on the installation position, the water drain opening must be broken out.			ECE	SAE (USA)
2DA 964 169-001	E17 808	②	X	X ■ ●
2BA 964 169-011	E17 648	③	X	X ■ ●
2NE 964 169-021	E17 3808	④	X	X ■ ●
2ZR 964 169-031	E17 2311	⑤	X	X ■ ●
2BA 964 169-041	E17 9804	③④	X	
2BN 964 169-051	E17 9801	③⑤	X	X ■
2TA 964 169-061	E17 9805	①②⑥	X	X ■
2BE 964 169-071**	E17 9802		X	
2SW 964 169-081	E17 9803	①③	X	X ■
2SA 964 169-091	E17 810	①	X	X ■ ●
2SD 964 169-111	E17 9903	①②③	X	
2TA 964 169-147		①②⑥	X	■
2SB 964 169-287	E17 815	①②	X	X ■ ●

** indicator / position light for front surface-mounting

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.
** With pulse for indicator failure check
■ SAE type approval for vehicles < 2,032 mm width
● SAE type approval for vehicles < 2,031 mm width

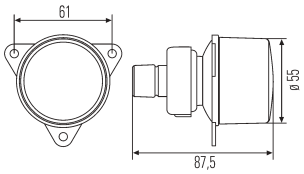
① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

Combination rear light

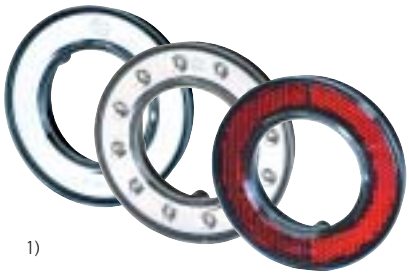


a, c

b, d



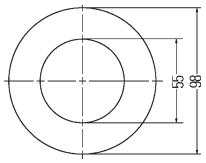
COMBINATION REAR LIGHT		
12 V and 24 V, for flush-mounting		
a) Taillight, red lens	**2XA 008 221-021**	①
with fitted bulb 12 V/5 W	**2SA 008 221-127**	①
Stop light, red lens	**2XA 008 221-021**	②
with fitted 12 V / 21 W bulb	**2DA 008 221-167**	②
Type approval E1 1048 and E1 1049		
b) Indicator 12/24 V, grey lens	**2BA 008 221-041**	③
with fitted amber bulb 12 V/21 W	**2BA 008 221-147**	③
Type approval E1 1051, E1 878 and E1 879		
c) 12/24 V rear fog light, red lens	**2NE 008 221-031**	④
with fitted 12 V / 21 W bulb	**2NE 008 221-137**	④
Type approval E1 1050		
d) Reverse light 12/24 V, grey lens	**2ZR 008 221-051**	⑤
with fitted 12 V / 21 W bulb	**2ZR 008 221-157**	⑤
Type approval E1 1052		
Accessories for light series 008 221-...		
Harness with grommet	**8KA 152 134-007**	
Grommet separate	**9GT 137 236-007**	



1)

2)

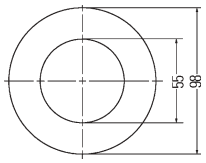
3)



1) Chrome-plated finisher, 12 V	**8XU 008 405-031**
2) LED taillight/clearance light, 12 V for flush-mounting, with 12 red LEDs, clear lens, 1.8 W	**2SA 008 405-021***
3) Reflector	**8RA 008 405-001**
LED taillight/stop light, 12 V for flush-mounting, with 12 red LEDs, clear lens, 2.1 W	**2SB 008 405-101***
Type approval E1 1197, E1 1196 and E1 1892	

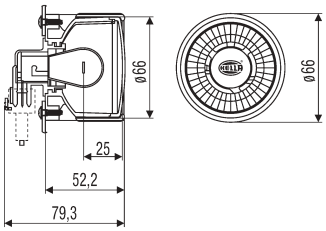
1)

2)



Examples for combination possibilities		
1) Rear lighting	**2BA 008 221-041** and **2SA 008 405-021**	③ ①
2) Rear lighting	**2XA 008 221-021** and **8RA 008 405-001**	② ⑥
Accessories: Heat baffle plate (necessary at > 50 °C ambient temperature)	**9XB 161 749-007**	

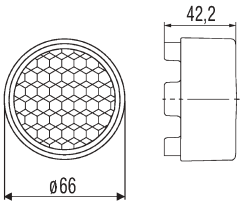
Combination rear light



60 MM PREMIUM LIGHTS

with pre-fitted bulbs 12 V, incl. design ring			ECE	SAE (USA)
Red lens	**2SA 009 001-047**	①	X	
Red lens	**2DA 009 001-057**	②	X	
Red lens	**2SB 009 001-067**	①②	X	
Grey lens	**2BA 009 001-007**	③	X	
with Silvervision bulb	**2BA 009 001-191**	③	X	
Red lens	**2NE 009 001-027**	④	X	X
Grey lens	**2ZR 009 001-017**	⑤	X	X

Type approval E4 3917, E4 6546, E4 7613 and E4 23255



Macro reflector, 12 V, red	**8RA 009 001-037**	⑥	X	X

Type approval E4 3189

60 MM PREMIUM LED LIGHTS

12 V/3 W, current consumption = approx. 0.25 A			ECE	SAE (USA)
12 V, clear lens	**2SB 009 001-401**	①②	X	
12 V, clear lens	**2BA 009 001-411**	③	X	
24 V, clear lens	**2BA 009 001-431****	③	X	

Type approval E4 12390

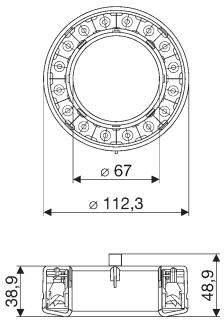
DESIGN RING

suitable for 60 mm light modules with Ø 71.6 mm
(Part number ... 009 001-... except for LED versions), perfect high-sheen finish with one "click"

high-sheen chrome-plated	**9HB 161 122-012**
silver	**9HB 161 122-007**
Premium silver	**9HB 164 168-002**

Combination example	
of a combination rear light	**... 009 001-...**
with design ring Ø 71.6 mm high-sheen chrome-plated	**9HB 161 122-012**

Combination rear light

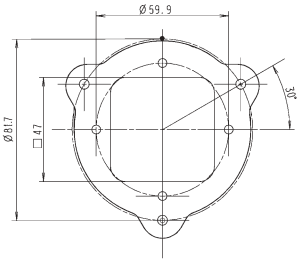


CIRCULAR MODULES				
available with a choice of clear or red cover lens			ECE	SAE (USA)
12 V, red lens	**2SB 009 362-041***	①②	X	
12 V, clear lens	**2SB 009 362-021***	①②	X	
12 V, red lens	**8RA 009 362-001**	⑥	X	

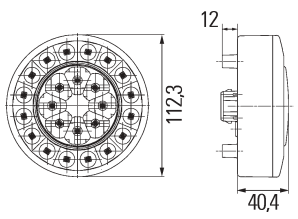
Type approval E4 7747 and E4 7748

Circular module without lighting function for surface-mounting, light units with identical design	
Red lens	**8XU 009 362-101**
Glass-clear lens	**8XU 009 362-111**

DESIGN RING Ø 118 MM	
suitable for ring module 009 362 perfect high-sheen finish with one “click”	
high-sheen chrome-plated	**9HB 163 085-012**
silver	**9HB 163 085-001**



ACCESSORIES 60 MM COMBINATION REAR LIGHTS	
Adapter ring for frontal screw attachment for combination rear lights Ø 60 mm, direct assembly and assembly also in circular module, black	**9XD 161 119-007**
Adapter ring for the attachment of LED lights or the reflector in the circular module, black (not shown)	**9XD 161 119-017**

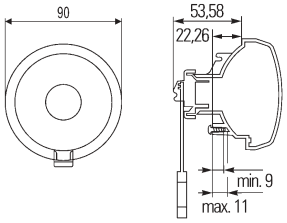


COMBINED TAIL-STOP-INDICATOR LIGHT SAE		
12 V / 4.8 W current consumption approx. 0.4 A , for rear flush-mounting, clear lens, with 24 red LEDs, suitable for the light series 009 362-..., 009 001-...	ECE	SAE (USA)
2SD 009 362-201*		X ■ ●

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.
** With pulse for indicator failure check
■ SAE type approval for vehicles < 2,032 mm width
● SAE type approval for vehicles < 2,031 mm width

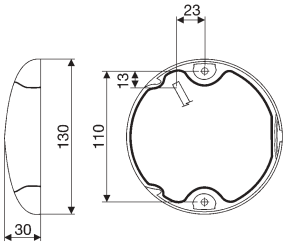
① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

Combination rear light



COMBINATION REAR LIGHT Ø 90 MM				
for flush-mounting, brilliant finish, screw heads not visible, with fitted bulbs, reversing light and rear indicators with smoked glass lens, also available as daytime running light			ECE	SAE (USA)
Attachment possible from the front using the enclosed clips or from the rear using screws				
12 V	**2SA 965 039-001**	①	X	X ■ ●
12 V	**2DA 965 039-011**	②	X	X ■
12 V	**2BA 965 039-021/7**	③	X	X ■
12 V	**2NE 965 039-031/7**	④	X	X ■ ●
12 V	**2ZR 965 039-041/7**	⑤	X	X ■ ●
12 V	**2SB 965 039-051/7**	①②	X	X ■
with mounted attachment clips				
12 V	**2SA 965 039-307**	①	X	X ■ ●
12 V	**2DA 965 039-317**	②	X	X ■ ●
12 V	**2BA 965 039-347**	③	X	X ■ ●
12 V	**2NE 965 039-327**	④	X	X ■ ●
12 V	**2ZR 965 039-337**	⑤	X	X ■ ●
12 V	**2SB 965 039-357**	①②	X	X ■ ●

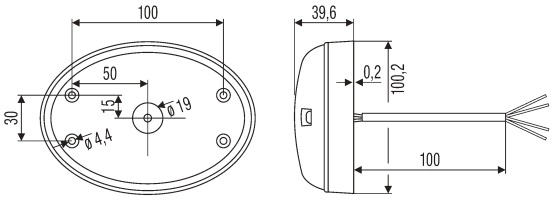
Type approval E4 10215



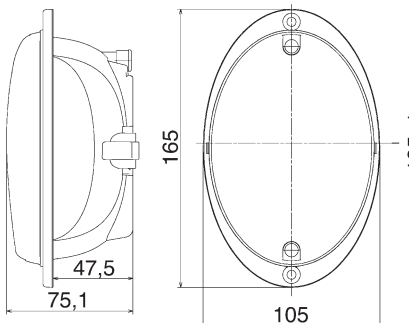
EUROLED				
1 Power-LED, for surface-mounting, cast in one piece with the base plate, electrical connection through cable 2500 mm long, multi-voltage 9–33 V			ECE	SAE (USA)
12 V / 2.5 W, current consumption = approx. 0.21 A (SAE versions upon request)	**2SB 959 821-601***	①②	X	
	2BA 959 822-601**	③	X	
12 V / 4 W, current consumption = approx. 0.33 A	**2NE 959 821-201***	④	X	
12 V / 5 W, current consumption = approx. 0.42 A	**2ZR 959 820-601***	⑤	X	

Type approval E4 10208

Combination rear light



"OVAL" LED COMBINATION REAR LIGHT			
for horizontal and vertical surface-mounting, clear lens, 24 LEDs, can be used on the right and left, can be turned through 180°, 2 bodywork fastening screws (diagonal arrangement) with 100 mm harness, multi-voltage 9–32 V		ECE	SAE (USA)
2SD 343 390-011*	①②③	X	
12 red LEDs for stop light: 12 V/1 W, current consumption = approx. 0.08 A			
12 red LEDs for stop light (reduced power): 12 V/0.2 W, current consumption = approx. 0.02 A			
12 yellow LEDs for indicator with patented electronics for indicator failure check 12 V/1.5 W, current consumption = approx. 0.13 A			
2BA 343 390-071*	③	X	
12 V/1.5 W, current consumption = approx. 0.13 A 24 yellow LEDs for patented electronics for indicator failure check			
2SB 343 390-091*	①②	X	
Stop light: 12 V/1 W, current consumption = approx. 0.08 A Taillight: 12 V/0.2 W, current consumption = approx. 0.02 A (reduced power)			

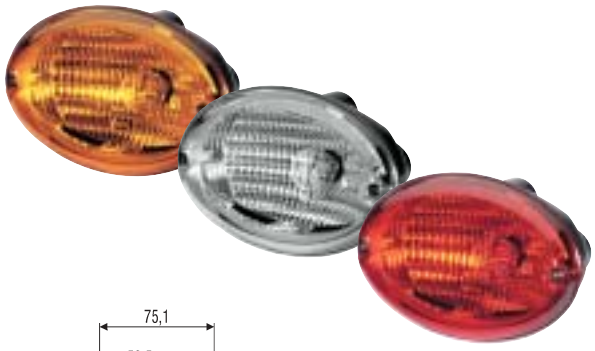


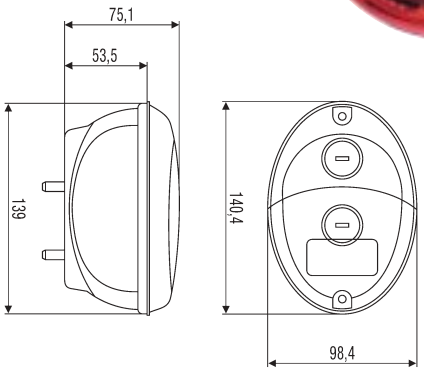
"OVAL" LED COMBINATION REAR LIGHT			
only for vertical flush-mounting, with 24 LEDs, 12 red LEDs for stop light ,with 4-pole German plug integrated in the housing, with patented electronics for indicator failure check, with ECE and EMC type approval		ECE	SAE (USA)
2SD 343 390-401*		X	
12 red LEDs for stop light: 12 V/1 W, current consumption = approx. 0.08 A			
12 red LEDs for stop light (reduced power): 12 V/0.2 W, current consumption = approx. 0.02 A			
12 yellow LEDs for indicator with patented electronics for indicator failure check 12 V/1.5 W, current consumption = approx. 0.13 A			
2SD 343 390-407*			
12 red LEDs for stop light: 12 V/1 W, current consumption = approx. 0.08 A			
12 red LEDs for stop light (reduced power): 12 V/0.2 W, current consumption = approx. 0.02 A			
12 yellow LEDs for indicator with patented electronics for indicator failure check 12 V/1.5 W, current consumption = approx. 0.13 A			

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.
** With pulse for indicator failure check
■ SAE type approval for vehicles < 2,032 mm width
● SAE type approval for vehicles < 2,031 mm width

① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

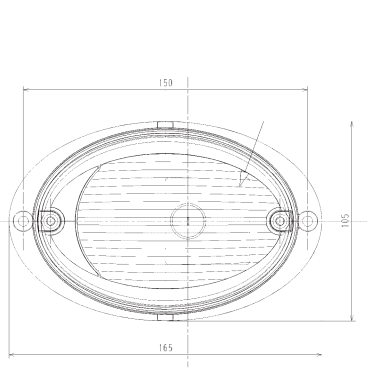
Combination rear light





"OVAL" COMBINATION REAR LIGHT - BRILLIANT-FINISH APPEARANCE

suitable for horizontal and vertical flush and surface-mounting, right or left (= turn light through 180°), can be used for 12 V and 24 V operation, before mounting, break out the water drain hole and insert seal, black housing, clear cover lens			ECE	SAE (USA)
2SB 343 130-021/7	E4 7698	①②	X	■ ●
2BA 343 130-051/7	E4 6550	③	X	■ ●
2NE 343 130-031/7	E4 3919	④	X	
2ZR 343 130-041/7	E4 23257	⑤	X	■ ●



"OVAL LIGHT" COMBINATION REAR LIGHT

for horizontal and vertical flush-mounting, lens with stripe pattern, housing with black edging all the way round, completely pre-fitted, with 100 mm cable and pre-fitted 12 V bulb				ECE	SAE (USA)
left	**2SA 343 400-217**	E17 823	①	X	
right	**2SA 343 400-227**	E17 823	①	X	
left	**2DA 343 400-237**	E17 821	②	X	
right	**2DA 343 400-247**	E17 821	②	X	
left	**2ZR 343 400-297**	E17 2314	⑤	X	
right	**2ZR 343 400-307**	E17 2314	⑤	X	
left	**2NE 343 400-277**	E17 3812	④	X	
right	**2NE 343 400-287**	E17 3812	④	X	
left	**2BA 343 400-257**	E17 655	③	X	
right	**2BA 343 400-267**	E17 655	③	X	
left	**2SB 343 400-317**	E17 822	①②	X	
right	**2SB 343 400-327**	E17 822	①②	X	

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

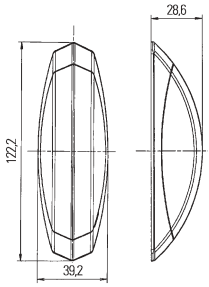
■ SAE type approval for vehicles < 2,032 mm width

● SAE type approval for vehicles < 2,031 mm width

① Taillight ② Stop light ③ Direction indicator ④ Rear fog light ⑤ Reversing light

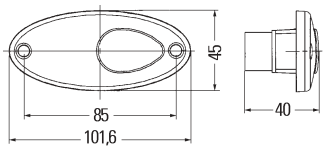
⑥ Reflector ⑦ Side marker light with reflector ⑧ Licence plate light

Clearance lights



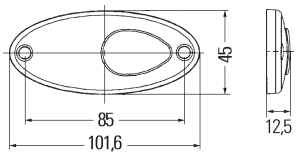
CLEARANCE LIGHT	
for vertical surface-mounting, red / white	
with grey base plate, with 12 V bulb	
left	**2XS 008 479-001**
right	**2XS 008 479-011**
left, without bulb	**2XS 008 479-061**
right, without bulb	**2XS 008 479-071**
red, PO function silver-coloured, opaque	
left	**2XS 008 479-107**
right	**2XS 008 479-117**
with white base plate	
left	**2XS 008 479-081**
right	**2XS 008 479-091**

Type approval E1 1201



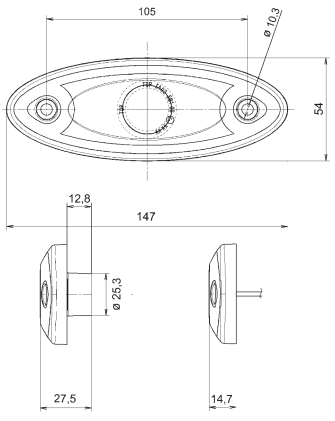
CLEARANCE LIGHT	
with pre-fitted 12 V bulb and seal, for horizontal or vertical flush-mounting	
oval	**2XS 964 295-031**

Type approval E17 812



LED CLEARANCE LIGHT	
for horizontal surface-mounting, 2 LEDs, 12 V with seal and cable 5,000 mm long 12 V/0.5 W, current consumption = approx. 0.04 A	
oval	**2TM 964 295-101***

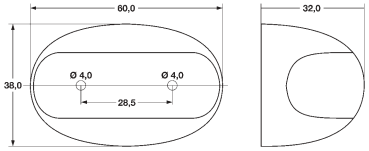
Type approval E17 0302



LED CLEARANCE LIGHT	
for surface-mounting, modern night-time design and high level of safety thanks to maximum illuminated area, 12 V	
6.3 mm contact pin, horizontal	**2TM 343 690-157***
6.3 mm contact pin, vertical	**2TM 343 690-167***
500 mm cable, horizontal	**2TM 343 690-351*/-357**
500 mm cable, vertical	**2TM 343 690-367**

Type approval E4 7597 and e1 031721

Clearance lights

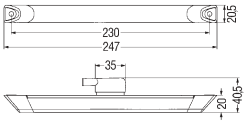


LED CLEARANCE LIGHT

for horizontal surface-mounting, 2 LEDs, 8–28 V
12 V/0.5 W, current consumption = approx. 0.04 A

500 mm cable	**2XA 959 560-401***
5,000 mm cable	**2XA 959 560-411***

Type approval E4 7574 and e1 031721

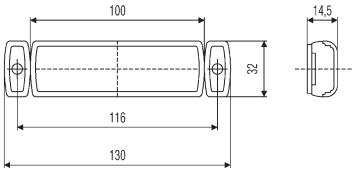


LED CLEARANCE LIGHT

for horizontal or vertical surface-mounting, with 2 LEDs and light guide strip in red, 2 screw holes ø 5.4 mm for fastening screws
12 V/0.7 W, current consumption = approx. 0.06 A

12 V	**2XS 008 078-011***

Type approval E13 0515



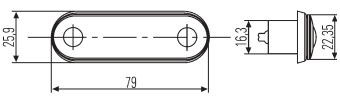
LED CLEARANCE LIGHT

for horizontal or vertical surface-mounting, with reflector, 12 V,
2 holes for fastening screws B 4.2
12 V/0.6 W, current consumption = approx. 0.05 A

500 mm cable	**2TM 008 645-931**
5,000 mm cable	**2TM 008 645-921**

With horizontal surface-mounting, the LED field must point to the outer vehicle edge.
With vertical surface-mounting, the LED field may point upwards or downwards.
(Clearance light can also be used as a taillight with reflector.)

Type approval E1 1395 and E1 1398



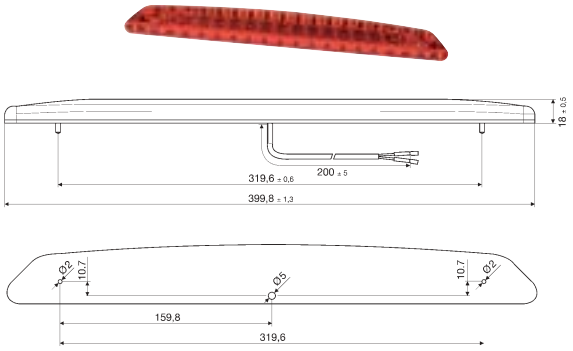
LED CLEARANCE LIGHT

for horizontal or vertical flush-mounting, clear lens with 2 red LEDs can be used as taillight or clearance light, 8–28 V
12 V/0.5 W, current consumption = approx. 0.04 A

500 mm cable with caps	**2XA 959 790-401***
5,000 mm cable with caps	**2XA 959 790-411***

Type approval E4 7597 and e1 031721

Safety stoplights

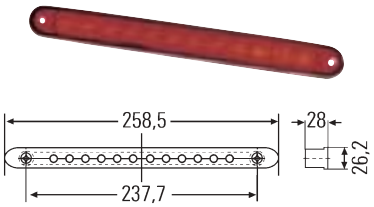


LED SAFETY STOP LIGHT

for horizontal surface-mounting, with 12 red LEDs, in brilliant finish, with 3D effect thanks to each LED being embedded in a separate reflector, with 200 mm cable
12 V/1.8 W, current consumption = approx. 0.15 A

12 V, red lens	**2DA 343 800-001***
12 V, red lens	**2DA 343 800-007***
12 V, with rubber base	**2DA 343 800-057***

Type approval E4 7715

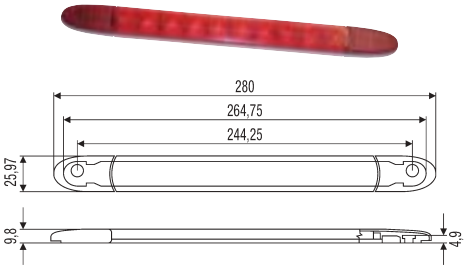


LED SAFETY STOP LIGHT

for horizontal surface-mounting, 12 LEDs, 2,500 mm with seal and open cable
12 V/2 W, current consumption = approx. 0.17 A

12 V, red lens	**2DA 959 071-537***
12 V, clear lens	**2DA 959 071-037***

Type approval E4 7547

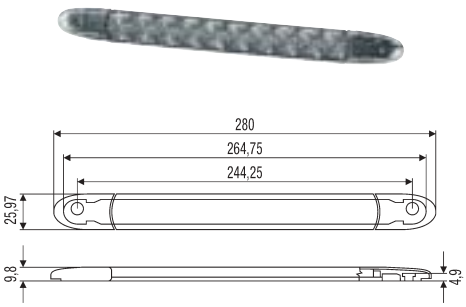


LED SAFETY STOP LIGHT

for horizontal or vertical surface-mounting, with 10 red LEDs, red lenses, with 3000 mm cable, design height 9 mm
12 V/0.7 W, current consumption = approx. 0.06 A

for screw attachment	**2DA 343 106-007***
self-adhesive for smooth and clean surfaces	**2DA 343 106-207***

Type approval E4 7696



LED SAFETY STOP LIGHT

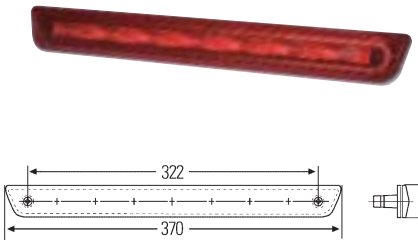
for horizontal or vertical surface-mounting, with 10 red LEDs, with smoked glass lens, 3000 mm cable, design height 9 mm
12 V/0.7 W, current consumption = approx. 0.06 A

for screw attachment	**2DA 343 106-021***
self-adhesive (for smooth and clean surfaces)	**2DA 343 106-221***

Type approval E4 7696

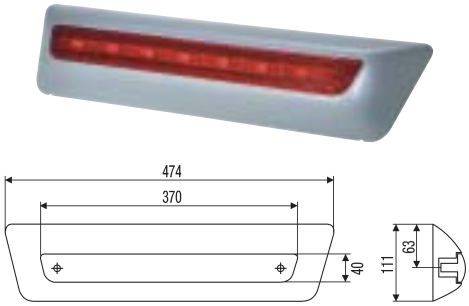
* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

Safety stoplights and reflectors



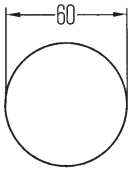
SAFETY STOPLIGHT	
for horizontal flush-mounting, red lens, with pre-fitted 12 V bulbs, 2.3 W	
with PE foam seal, coated on both sides with adhesive	**2DA 008 136-027**
Screw attachment from the front through the lens (screws are not included in the scope)	**2DA 008 136-017**

Type approval E13 02799



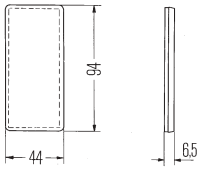
SAFETY STOPLIGHT	
for horizontal surface-mounting, with 12 V bulbs, 2.3 W, cable 146 751-00 included loose	**2DA 008 136-031**
Accessories (order separately):	
Cable with grommet	**8KA 146 751-007**
Cable without grommet	**8KA 144 707-007**
Grommet only	**9GT 146 757-007**

Type approval E1 02799



REFLECTOR	
self-adhesive, red	**8RA 002 014-081**
self-adhesive, yellow	**8RA 002 014-101**
self-adhesive, white	**8RA 002 014-091**

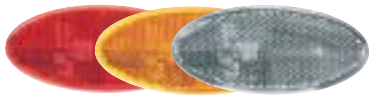
Type approval E13 623555

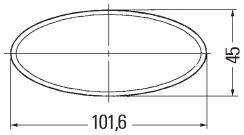


REFLECTOR	
for horizontal or vertical surface-mounting	
self-adhesive, red	**8RA 003 326-031**
self-adhesive, yellow	**8RA 003 326-041**
self-adhesive, white	**8RA 003 326-051**

Type approval E2 0292031

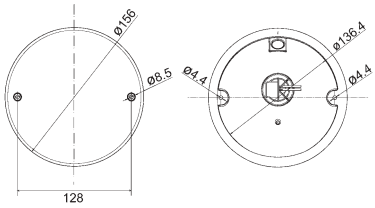
Reflector





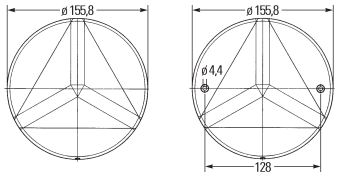
REFLECTOR	
for horizontal or vertical surface-mounting, suitable for light series 9642	
self-adhesive, red	**8RA 343 160-007**
self-adhesive, yellow	**8RA 343 160-027**
self-adhesive, white	**8RA 343 160-017**

Type approval E4 3190



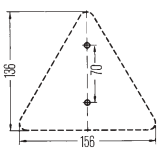
REAR FOG LIGHT	
with integrated reflector	
12 V, incl. bulb	**2NE 344 610-007**
12 V, without bulb	**8RA 344 610-017**

Type approval E24 5857



REFLECTOR	
self-adhesive, red	**8RA 343 220-007**
with 2 holes for fastening screws, red	**8RA 343 220-017**

Type approval E4 023191

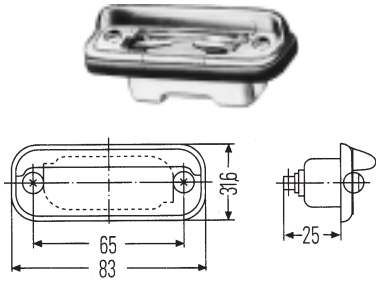


REFLECTOR	
2 holes, Ø 6 mm, for fastening screws.	
red	**8RA 002 020-001**

Type approval E17 02346

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

Licence plate lighting

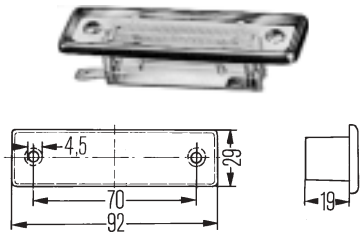


LICENCE PLATE LIGHT

for flush-mounting above or below the licence plates 520 x 120 mm (2 or 3 lights) and 340 x 240 mm (2 lights), 2 x M4 fastening screws, installation depth: approx. 25 mm, clear lens

with chrome brilliant-finish edge	**2KA 001 378-001**
with silver-coloured edge, without fastening screws	**2KA 001 378-041**
with black edge and 12 V bulb	**2KA 001 378-127**

Type approval E1 12958

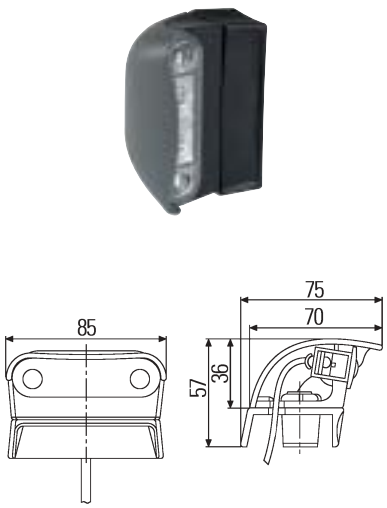


LICENCE PLATE LIGHT

for flush-mounting above or below (2 lights) the licence plate 520 x 120 mm, 2 holes for fastening screws, installation depth: approx. 20 mm, clear lens

with 12 V bulb	**2KA 004 331-061**

Type approval E1 22890



LED LICENCE PLATE LIGHT

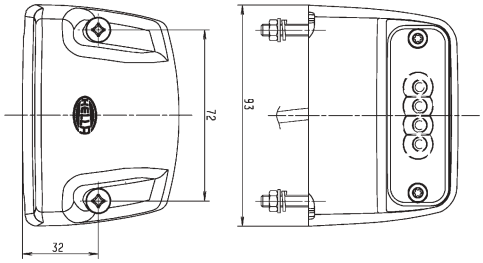
for surface-mounting left and right next to the licence plate 520 x 120 mm, with 2.5 m cable, bracket for mounting the light to the body, cover, fastening screws, cover caps for screws as well as a spacer for different mounting situations, multi-voltage 10 - 33 V; with 2 LEDs 0.5 W

12 V/0.55 W, current consumption = approx. 0.04 A

clear lens, black housing	**2KA 959 640-607***

Type approval E4 4068 and e1 031721

Licence plate lighting



LED LICENCE PLATE LIGHT

12 V, for surface-mounting on the right or left next to the licence plate, with 4 LEDs, clear lens, housing made of black plastic, with CE and ECE type approval, with flat plug 6.3 x 0.8

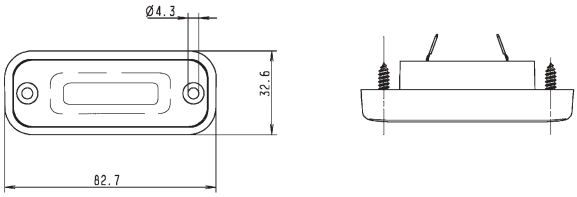
12 V/1 W, current consumption = approx. 0.08 A

for 520 x 120 mm licence plates, only 1 light required for illumination	**2KA 010 278-321***

Type approval E1 2609

for 340 x 240 und 280 x 200 mm licence plates	**2KA 010 278-421***

Type approval E1 2911

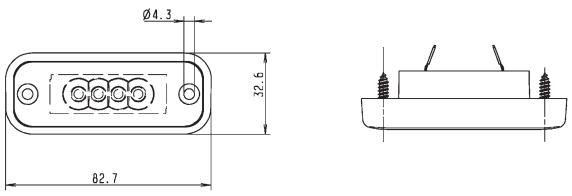


LED LICENCE PLATE LIGHT

12 V, for flush-mounting above the licence plate, with frame, with flat plug 6.3 x 0.8

for 340 x 240 and 280 x 200 mm licence plates, only 1 light required for illumination	**2KA 010 278-411**

Type approval E1 2911



LED LICENCE PLATE LIGHT

for flush-mounting above the licence plate 520 x 120 mm, 2 lights required for illumination, with black plastic frame, with flat plug 6.3 x 0.8

12 V/1 W, current consumption = approx. 0.08 A	**2KA 010 278-311***

Type approval E1 2609

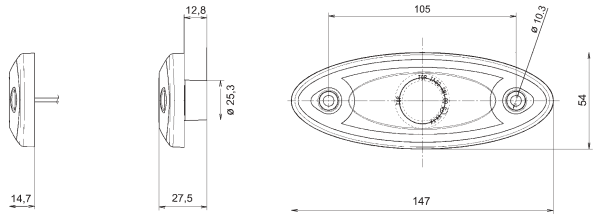
* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

= GGVS/ADR tested

SIDE LIGHTING

Side marker lighting	Page	**51 – 52**
Auxiliary indicators	Page	**53**

Side marker lighting



with cable

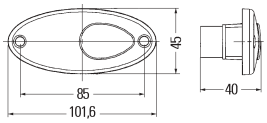
with 6.3 mm contact

LED SIDE MARKER LIGHT

for surface-mounting, modern night-time design and high level of safety thanks to maximum illuminated area, 12 V, additional versions upon request

6.3 mm contact pin, orange frame	**2PS 343 690-047***
6.3 mm contact pin, white frame	**2PS 343 690-001*/-007***
6.3 mm contact pin, black frame	**2PS 343 690-061*/-067***
500 mm cable, white frame	**2PS 343 690-201*/-027***
Rubber seal, black	**9GD 343 697-007**
Rubber seal, grey	**9GD 343 697-107**
Grommet	**9GT 343 367-001**
AMP Superseal, black	**2PS 343 690-611/-617**
AMP Superseal, white	**2PS 343 690-601/-607**

Type approval E24 5853

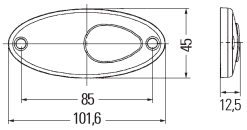


SIDE MARKER LIGHT

for horizontal flush-mounting, with reflector, with seal, with 12 V bulb, with ECE and SAE type approval

12 V/5 W, yellow	**2PS 964 295-001**
Red SMLR in accordance with SAE	**2XS 964 295-031/-037**

Type approval SMLR E17 9807, UR E17 812



LED SIDE MARKER LIGHT

for horizontal flush-mounting, with 2 LEDs, with reflector, with seal and two cables 500 mm long, with ECE and SAE type approval
12 V/0.5 W, current consumption = approx. 0.04 A

with fastening screws	**2PS 964 295-067***
self-adhesive, without seal, with caps for the screw holes	**2PS 964 295-081***

Type approval E17 0202

LED SIDE MARKER LIGHT

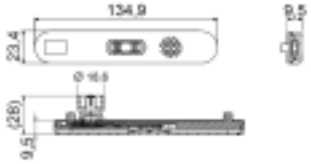
for horizontal surface-mounting, with 2 LEDs, with reflector, with 195 mm long cable, with double-sided adhesive tape on the base plate and "adapter slots"

12 V/1.0 W, current consumption = approx. 0.08 A	**2PS 009 226-027***
12 V/1.0 W, current consumption = approx. 0.08 A, vertical assembly	**2PS 009 226-077**

Type approval horizontal E4 10236, vertical available as of August 2011

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

Side marker lighting

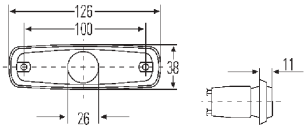


SIDE MARKER LIGHT

for horizontal surface-mounting, for connecting to 6.3 mm flat plug and adhesive attachment, also to loop through (2 x 2.8 mm)

12 V/3 W	**2PS 009 226-067**
Grommet	**9GT 186 597-007**

Type approval E4 10236

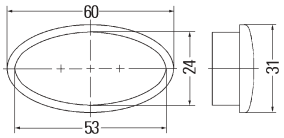


SIDE MARKER LIGHT

for horizontal or vertical flush-mounting, with reflector, with 12 V bulb, with white base plate, with ECE and SAE type approval

12 V/3 W	**2PS 962 964-037**
Seal (order separately)	**9GD 963 281-001**
Grommet (order separately)	**9GT 963 129-001**

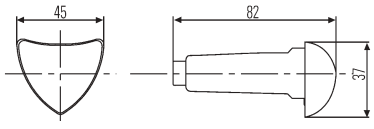
Type approval E4 0004 and E4 3153



SIDE MARKER LIGHT SET

for horizontal flush-mounting, for retrofitting to passenger cars < 6 m, 4 units each, with LED technology 12 V/0.7 W, current consumption = approx. 0.06 A		ECE	SAE (USA)
LED amber, Silver-grey bezel	**2PS 008 138-801***	X	X
Grey lens, Black bezel	**2PS 008 138-811**	X	X
Grey lens, Silver-grey bezel	**2PS 008 138-821**	X	X

Type approval E4 9110



SIDE MARKER LIGHT SET

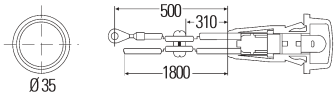
for horizontal and vertical flush-mounting, 4 units each, with amber 12 V / 5 W bulb		ECE	SAE (USA)
in arrow design	**2PS 008 541-801***	X	

Type approval E1 1223

Info

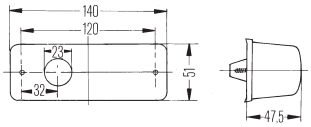
For vehicles < 6 m in length and/or < 3.5 t, auxiliary indicators of category 5 are prescribed, and for vehicles > 6 m in length and/or > 3.5 t, auxiliary indicators of category 6 are legal requirements.

Auxiliary indicators



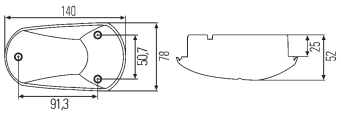
AUXILIARY INDICATORS	
Category 5 for 12 V, for flush-mounting on the side	
small, space-saving	**2BM 003 563-111**

Type approval E1 42621

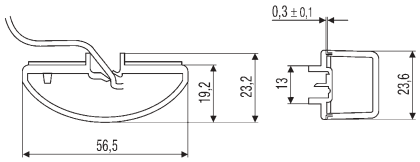


AUXILIARY INDICATORS	
Category 5 and 6 for 12 V and 24 V / 21 W, for surface-mounting on the side	
left	**2BM 006 692-017**
right	**2BM 006 692-027**

Type approval E1 0152621



AUXILIARY INDICATORS	
Category 6 for 24 V / 21 W, extremely flat design, for surface-mounting on the side	
Lens, amber	**2BM 008 355-001**
Type approval E1 1059	
Glass-clear lens	**2BM 008 355-017**
Type approval E1 1848	
Harness for non splashwater-proof area	**8KA 157 425-007**



LED AUXILIARY INDICATOR			
for horizontal flush-mounting, category 5, simple gluing into prepared mirror, can also be used as a universal auxiliary indicator		ECE	SAE (USA)
12 V/0.7 W, current consumption = approx. 0.06 A	**2BM 008 771-007***	X	X

Type approval E1 011423

* Please see the note on pages 8 and 9 regarding LED indicators and LED indicator failure check.

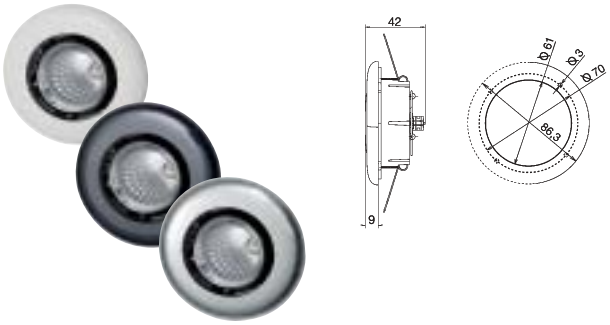
■ SAE type approval for vehicles < 2,032 mm width

● SAE type approval for vehicles < 2,031 mm width

INTERIOR LIGHTING

Ceiling lights	Page	**55 – 61**
Orientation lighting	Page	**62 – 65**
Reading Lights	Page	**66 – 67**
Ambient lighting	Page	**67**

Ceiling lights



STANDARD LED SPOTLIGHT, FIXED

Number of Power LEDs: 1 white
Illumination angle: 40° or 20°
Illuminance in 1 m: 156 lux (20°), 65 lux (40°)
IP protective class: 3 X
Power output: 2 W (0.16 A at 12 V)
Lens: clear
Assembly: choice between screw or spring-assisted mounting
Voltage: Multivolt 10–31 V
Current consumption spot at 12 V/2.5 W = approx. 0.20 A

Flush-mounting, fixed, wide illumination (40°)

Finisher colour*:	
white	**2JA 344 040-701**
black	**2JA 344 040-711**
silver	**2JA 344 040-721**

Flush-mounting, fixed, spot-type illumination (20°)

Finisher colour*:	
white	**2JA 344 040-741**
black	**2JA 344 040-751**
silver	**2JA 344 040-761**

Accessories

Round finisher with angled edges

black	**9AB 344 057-001**
white	**9AB 344 057-011**
silver	**9AB 344 057-021**
chrome	**9AB 344 057-061**
gold	**9AB 344 057-071**

Round finisher with rounded edges

chrome	**9AB 344 045-061**
gold	**9AB 344 045-071**
Stainless metal frame polished	**9AB 959 505-501**
Metal frame stainless and satined	**9AB 959 505-561**

Square finisher with angled edges

black	**9AB 344 058-001**
white	**9AB 344 058-011**
silver	**9AB 344 058-021**
chrome	**9AB 344 058-061**
gold	**9AB 344 058-071**

* further finisher colours (e.g. real-wood look) or ambient CELIS® light guide ring (e.g. blue, red) on request

STANDARD LED SPOTLIGHT, ADJUSTABLE

Number of Power LEDs: 1 white
Illumination angle: 40° or 20°
Illuminance in 1 m: 156 lux (20°), 65 lux (40°)
IP protective class: 3 X
Power output: 2 W (0.16 A at 12 V)
Lens: clear
Assembly: choice between screw or spring-assisted mounting
Voltage: Multivolt 10–31 V
Current consumption spot at 12 V/2.5 W = approx. 0.20 A

Flush-mounting, adjustable, wide illumination (40°)

Finisher colour*:	
white	**2JA 343 790-301**
black	**2JA 343 790-311**
silver	**2JA 343 790-341**

Flush-mounting, adjustable, spot-type illumination (20°)

Finisher colour*:	
white	**2JA 343 790-401**
black	**2JA 343 790-411**
silver	**2JA 343 790-441**

additional with white, ambient Celis® light guide ring, current consumption Celis® light guide ring at 12 V / 0.5 W = approx. 0.04 A

Flush-mounting, adjustable, wide illumination (40°)

Finisher colour*:	
white	**2JA 343 790-701**
black	**2JA 343 790-711**
silver	**2JA 343 790-741**

Flush-mounting, adjustable, spot-type illumination (20°)

Finisher colour*:	
white	**2JA 343 790-601**
black	**2JA 343 790-611**
silver	**2JA 343 790-641**

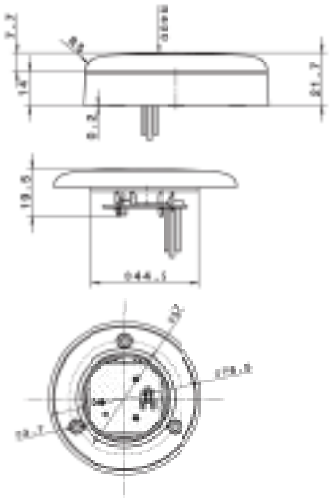
* further finisher colours (e.g. real-wood look) or ambient CELIS® light guide ring (e.g. blue, red) on request

Accessories

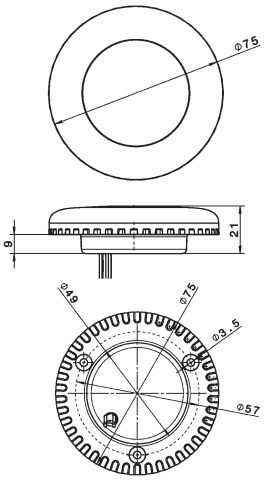
Finisher chrome	**9AB 343 792-061**
Finisher gold	**9AB 343 792-071**

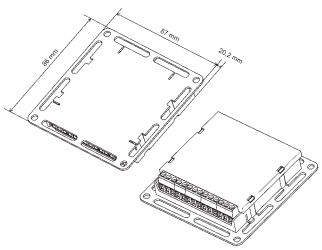
Ceiling lights

Standard LED spot



High-Power LED spot





LED SPOTS ROUND, FLAT FLUSH-MOUNTING/SURFACE-MOUNTING

Illumination angle:	35°
Illuminance in 1 m:	45 lux (Standard), 105 lux (high power)
IP protective class:	20
Power output:	Standard 1.5 W (0.12 A at 12 V) High power 2.6 W (0.21 A at 12 V)
Dimensions:	Flush-mounting variant only 14 mm Surface-mounting variant only 22 mm
Voltage:	5 VDC (connection possible only with control unit)

Individual packaging

consisting of 1 Spot LED, 1 colour light frame, 1 coloured installation frame, 1 seal ring for flush-mounting

Flush-mounting, fixed Finisher colour*:	**Standard LED spot 1.5 W**	**High-Power LED spot 2.6 W (double light power with cooling element)**
without Celis®		
white	**2JA 344 199-001**	**2JA 344 599-001**
black	**2JA 344 199-011**	**2JA 344 599-011**
silver	**2JA 344 199-021**	**2JA 344 599-021**
with Celis® warm-white ambient		
white	**2JA 344 199-101**	**2JA 344 599-101**
black	**2JA 344 199-111**	**2JA 344 599-111**
silver	**2JA 344 199-121**	**2JA 344 599-121**
with Celis® blue ambient		
white	**2JA 344 199-201**	**2JA 344 599-201**
black	**2JA 344 199-211**	**2JA 344 599-211**
silver	**2JA 344 199-221**	**2JA 344 599-221**
with Celis® red ambient		
white	**2JA 344 199-301**	**2JA 344 599-301**
black	**2JA 344 199-311**	**2JA 344 599-311**
silver	**2JA 344 199-321**	**2JA 344 599-321**
with Celis® orange ambient		
white	**2JA 344 199-351**	**2JA 344 599-351**
black	**2JA 344 199-361**	**2JA 344 599-361**
silver	**2JA 344 199-371**	**2JA 344 599-371**

Accessories

Installation frame, the overall height with frame is 22 mm

chrome	**9AB 344 192-061**
gold	**9AB 344 192-071**

A control unit is required for the use of more than one spot

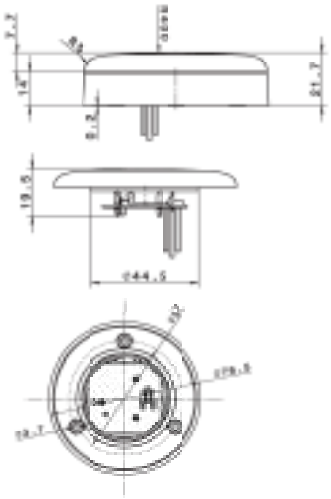
Number of circuits:	max. 8 SpotLEDs in 1 or 2 dimming circuits
IP protective class:	30
Power output:	1–16 W
Voltage:	Multivolt (9 – 32 VDC)

for 4 Standard or High-Power spots please use ...	**5XA 344 150-001**
for 8 Standard or 5 high power spots please use ...	**5XA 344 150-011**

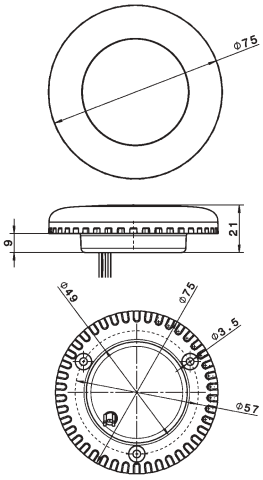
* further finisher colours (e.g. real-wood look) available on request

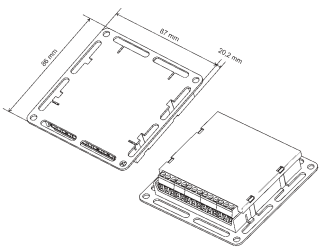
Ceiling lights

Standard LED spot



High-power LED spot





LED SPOTS ROUND, FLAT FLUSH-MOUNTING/SURFACE-MOUNTING

Illumination angle:	35°
Illuminance in 1 m:	45 lux (Standard), 105 lux (high power)
IP protective class:	20
Power output:	Standard 1.5 W (0.12 A at 12 V) High power 2.6 W (0.21 A at 12 V)
Dimensions:	Flush-mounting variant only 14 mm Surface-mounting variant only 22 mm
Voltage:	5 VDC (connection possible only with control unit)

Set packaging

comprising 4 LED spots, 4 coloured light frames, 4 coloured installation frames, 4 seal rings for installation, 1 central control unit (5 XA 344 150-001)

Surface-mounting, fixed Finisher colour*:	**Standard LED spot 1.5 W**	**High-Power LED spot 2.6 W (double light power with cooling element)**
without Celis®		
white	**2JA 344 190-001**	**2JA 344 590-001**
black	**2JA 344 190-011**	**2JA 344 590-011**
silver	**2JA 344 190-021**	**2JA 344 590-021**
with Celis® warm-white ambient		
white	**2JA 344 190-101**	**2JA 344 590-101**
black	**2JA 344 190-111**	**2JA 344 590-111**
silver	**2JA 344 190-121**	**2JA 344 590-121**
with Celis® blue ambient		
white	**2JA 344 190-201**	
black	**2JA 344 190-211**	
silver	**2JA 344 190-221**	
with Celis® red ambient		
white	**2JA 344 190-301**	
black	**2JA 344 190-311**	
silver	**2JA 344 190-321**	
with Celis® orange ambient		
white	**2JA 344 190-351**	
black	**2JA 344 190-361**	
silver	**2JA 344 190-371**	

Accessories

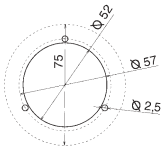
Installation frame, the overall height with frame is 22 mm	
chrome	**9AB 344 192-061**
gold	**9AB 344 192-071**

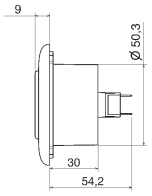
A control unit is required for the use of more than one spot

Number of circuits:	max. 8 SpotLEDs in 1 or 2 dimming circuits
IP protective class:	30
Power output:	1–16 W
Voltage:	Multivolt (9 – 32 VDC)
for 4 Standard or High-Power spots please use ...	**5XA 344 150-001**
for 8 Standard or 5 high power spots please use ...	**5XA 344 150-011**

* further finisher colours (e.g. real-wood look) available on request

Ceiling lights





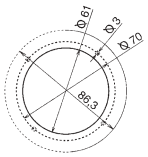
SPOT BULBS, FIXED AND ADJUSTABLE	
Illumination angle:	35°
Voltage:	12 V or 24 V (depending on bulb used)
IP protective class:	3 x
Power output:	5 W (0.41 A at 12 V)
Illuminance in 1 m:	145 lux
Assembly:	choice between screw or spring-assisted mounting
Lens:	clear
Light source:	12 V/5 W halogen bulb

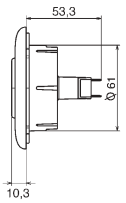
Flush-mounting, fixed (not shown), mounting: Screw attachment

Finisher colour*:	
white	**2JA 343 985-001**
black	**2JA 343 985-011**
silver	**2JA 343 985-041**

Accessories

Round finisher with rounded edges	
chrome	**9AB 344 045-061**
gold	**9AB 344 045-071**
Stainless metal frame polished	**9AB 959 505-501**
Metal frame stainless and satined	**9AB 959 505-561**





Flush-mounted, adjustable

Finisher colour*:	
white	**2JA 343 795-001**
black	**2JA 343 795-011**
silver	**2JA 343 795-021**

* further trim colours (e.g. real-wood look) available on request

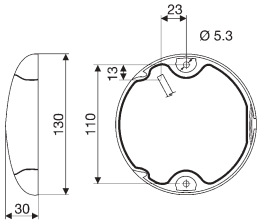
Accessories

Finisher chrome	**9AB 343 792-061**
Finisher gold	**9AB 343 792-071**

Spare Parts

12 V bulb, W5W	**8GP 003 594-121**
24 V bulb, W3W	**8GP 003 594-241**
24 V bulb, W5W	**8GP 003 594-251**

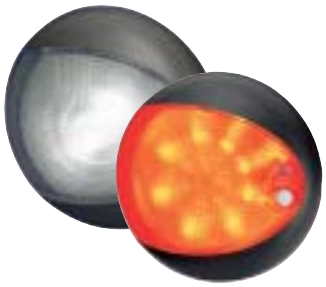
Ceiling lights

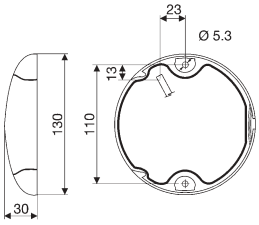


EUROLED

Number of LEDs:	1 white power LED
Connection:	electrical connection through a cable 2,500 mm long
Lens:	white
Voltage:	Multivolt 9 – 33 V
IP protective class:	IP 6K6K, IP 6K7K
Power output:	White 4 W (0.33 A at 12 V) Red <2.5 W (0.20 A at 12 V)
Assembly:	Surface-mounting, permanently bonded with base plate

12 V/4 W, current consumption = approx. 0.33 A	**2JA 959 820-501**

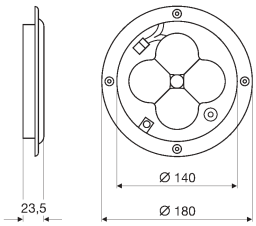




EUROLED TOUCH

Number of LEDs:	1 white and 8 red
Connection:	electrical, using a cable 2,500 mm long
Lens:	white
Voltage:	Multivolt 9 – 33 V
IP protective class:	IP 6K6K, IP 6K7K
Power output:	White 4 W (0.33 A at 12 V) Red <2.5 W (0.20 A at 12 V)
Assembly:	Surface-mounting, permanently bonded with base plate
Function:	with sensitive switch, for ON/OFF and dimming as well as switching between red and white light

black cover trim	**2JA 959 950-031**
white cover trim	**2JA 959 950-041**



CARGOLED

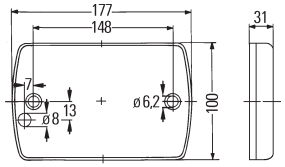
Number of LEDs:	4 white power LEDs
Connection:	electrical, using a cable 310 mm long
Illumination angle:	44° (wide illumination at close range)
Illuminance in 1 m:	180 lux
IP protective class:	6K9K
Power output:	6 W (0.5 A at 12 V)
Lens:	clear
Assembly:	Flush-mounting (aluminium installation frame)
Voltage:	Multivolt (9 – 31 VDC)
Temperature range:	–40 °C to +60 °C

cold white	**2JB 343 227-001**
warm white	**2JB 343 227-041**

Accessories

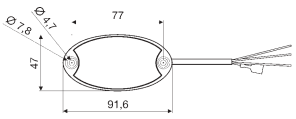
Installation frame, grey	**9XD 344 118-101**

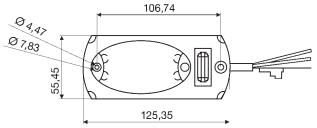
Ceiling lights

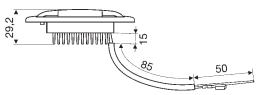


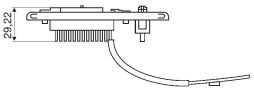
CARGOLED

Number of LEDs:	36 white LEDs
Connection:	electrical, using a cable 2,500 mm long
Illumination angle:	70°, wide horizontal and narrow vertical illumination
Illuminance:	720 lux
IP protective class:	6K6 6K7
Power output:	9 W (0.75 A at 12 V)
Lens:	clear
Material description:	impact-resistant plastic, UV-resistant
Assembly:	Surface-mounting, permanently bonded with white base plate
Voltage:	Multivolt 9 – 33 VDC
	2JA 959 037-511







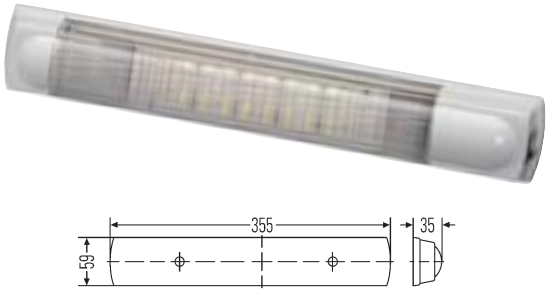


MINI OVALLED

Number of LEDs:	4 white LEDs, 1 ambient LED
Illumination angle:	50°
Illumination:	side driver or instrument range
Illuminance in1 m:	Standard 14.5 lux, Power 54 lux
Function:	ambient lighting can be switched on
IP protective class:	6K9K (without frame/switch), 40 (with frame/switch)
Power output:	Standard 1.7 W (0.14 A at 12 V) Power 3.6 W (0.30 A at 12 V)
Lens:	brilliant and clear
Assembly:	Flush-mounting
Voltage:	12 V or 24 V
Current consumption:	12 V/3.6 W, = approx. 0.30 A
Temperature range:	–40 °C to +60 °C

LED equipment	without frames and switches	with frame and switches
4 white power LEDs, 12 V, red	**2JA 343 570-011**	**2JA 343 570-051**
4 white power LEDs, 24 V, red	**2JA 343 570-001**	**2JA 343 570-041**
4 white power LEDs, 12 V, blue	**2JA 343 570-117**	**2JA 343 570-157**
4 white power LEDs, 24 V, blue	–	**2JA 343 570-141**
4 white standard LEDs,12 V, red	**2JA 343 570-031**	**2JA 343 570-071**
4 white standard LEDs, 24 V, red	**2JA 343 570-021**	**2JA 343 570-061**

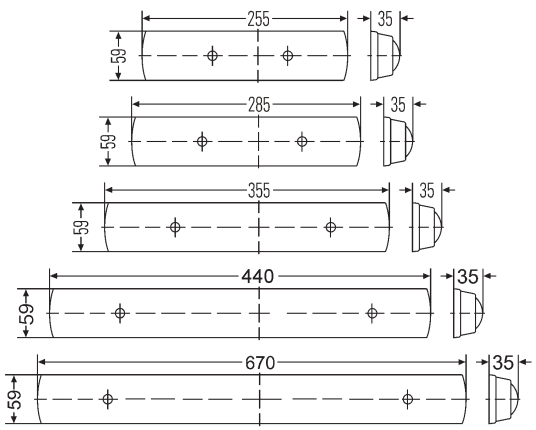
Ceiling lights



LED LIGHTS WITH SWITCH

Number of LEDs:	12 LEDs
Illuminance in 1 m:	approx. 100 lux
Length:	355 mm
Light colour:	4000 K (neutral white)
Material description:	Lens and frame made of impact-resistant material
Assembly:	Mounting
Nominal output:	3.5 W
Voltage:	Multivolt 10 – 30 V
Current consumption:	approx. 0.30 A at 12 V, approx. 0.15 A at 24 V
	2JA 007 373-151

Number of LEDs:	24 LEDs
Illuminance in 1 m:	approx. 200 lux
Length:	355 mm
Light colour:	4000 K (neutral white)
Material description:	Lens and frame made of impact-resistant material
Assembly:	Mounting
Nominal output:	7 W
Voltage:	Multivolt 10 – 30 V
Current consumption:	approx. 0.58 A at 12 V, approx. 0.29 A at 24 V
	2JA 007 373-161



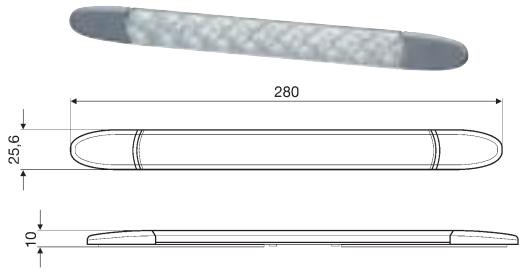
TRANSISTOR CEILING LIGHT

Feature:	fully interference suppressed, compact fluorescent light with switch
IP protective class:	43
Lens:	clear
Assembly:	Mounting
Voltage:	12 V
255 mm long, 7 W	**2JA 007 373-001**
285 mm long, 9 W	**2JA 007 373-031**
355 mm long, 11 W	**2JA 007 373-061**
440 mm long, 8 W	**2JA 007 372-001**
670 mm long, 13 W	**2JA 007 372-041**

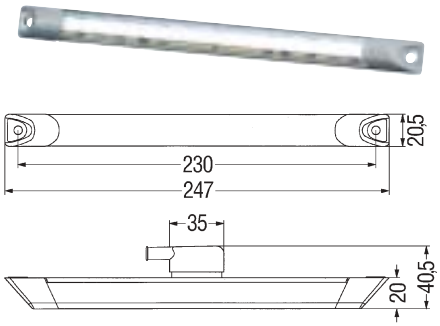
Spare Parts

Fluorescent light, 7 W, white, 255 mm	**8GS 861 955-001**
Floor light, 9 W, white, 285 mm	**8GS 861 955-011**
Floor light, 11 W, white, 355 mm	**8GS 861 955-021**
Floor light, 8 W, warm white, 440 mm	**8GS 002 296-101**
Floor light, 8 W, white, 440 mm	**8GS 002 296-111**
Floor light, 13 W, white, 670 mm	**8GS 861 953-011**

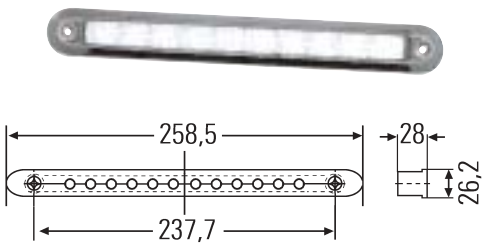
Orientation lighting



FLAT LED SURFACE-MOUNTED LIGHT	
Number of LEDs:	10 white LEDs
Connection:	electrical, using a cable 500 mm long
Illumination angle:	38°
Illuminance in 1 m:	32 lux
IP protective class:	6K9K
Power output:	1.8 W (0.15 A at 12 V)
Lens:	clear
Assembly:	Surface-mounting, permanently bonded with base plate
Voltage:	12 V
Temperature range:	– 40 °C to + 60 °C
12 V, white LEDs	**2JA 343 606-001/-007**
12 V, blue LEDs	**2JA 343 606-201**

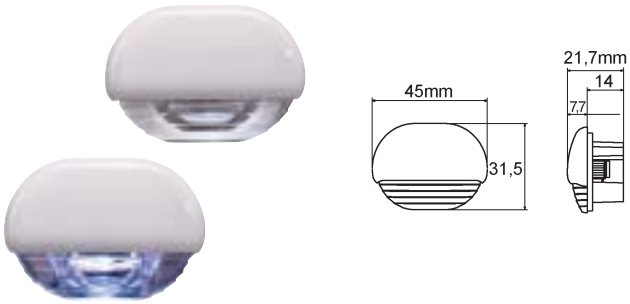


LED STEP LIGHT	
Number of LEDs:	2 white LEDs
Connection:	electrical, through flat plug and grommet
Feature:	with prism rod as a light aperture body
Colouring:	Grey housing
Power output:	0.7 W (0.05 A at 12 V)
Lens:	clear
Assembly:	Surface-mounting (horizontal or vertical)
Voltage:	12 V
	2JA 008 078-031

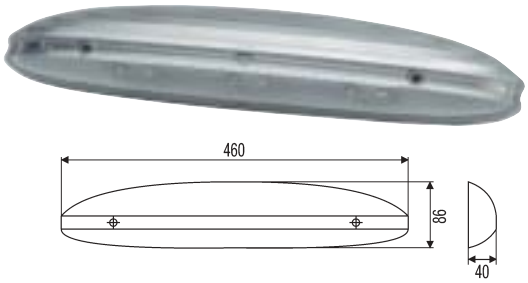


LED STEP LIGHT	
Number of LEDs:	10 white LEDs
Connection:	2,500 mm cable
Illumination angle:	24°
Illuminance in 1 m:	130 lux
Feature:	cast in one piece
IP protective class:	6K7 6K9K
Power output:	2 W (0.16 A at 12 V)
Lens:	clear
Delivery scope:	with screws, screw caps, seal, and cable connector
Assembly:	Flush-mounting
Voltage:	12 V
	2JA 959 073-001

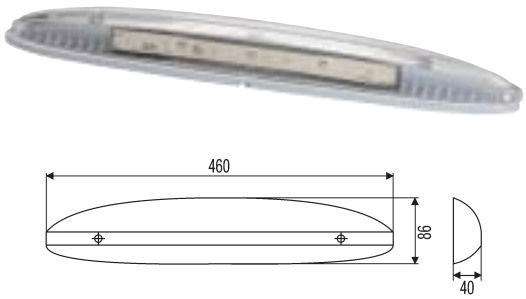
Orientation lighting



LED STEP LIGHT	
Number of LEDs:	1 LED
Connection:	electrical, using a potted cable 100 mm long
Illumination:	wide in close range areas
Illuminance in 1 m:	< 10 lux
Colouring:	White cover cap
Power output:	0.5 W (0.04 A at 12 V)
Lens:	clear
Delivery scope:	with seal
Assembly:	Flush-mounting, choice with 2 screws or possible with snap-on fastening
Voltage:	Multivolt 8 – 28 V
LED white	**2JA 998 560-017**
LED blue	**2JA 998 560-057**

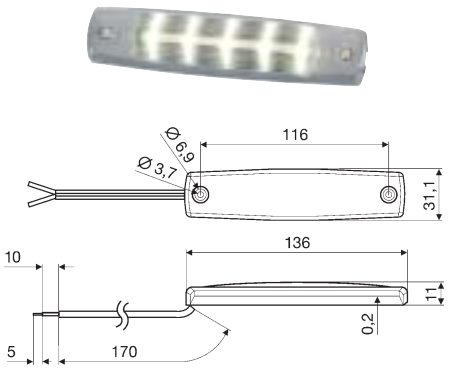


ENTRY LIGHT AND AWNING LIGHT	
Number of light sources:	3 tubular bulbs à 5 W
Illumination:	optimal in the step area and before
Illuminance in 1 m:	23 lux
Colouring:	Housing painted silver-coloured
Assembly:	Mounting
Voltage:	12 V
12 V	**2XT 008 929-001**
Spare Parts	
12 V bulb C5W	**8GM 002 092-121**

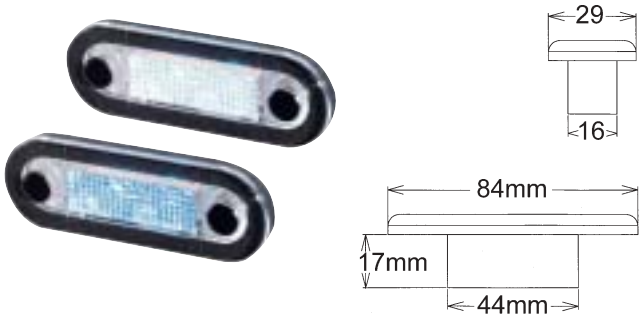


LED ENTRY LIGHT AND AWNING LIGHT	
Number of LEDs:	3 High power LEDs
Illuminance in 1 m:	107 lux
Energy consumption:	4.5 W at 12 V
Colouring:	Housing painted silver-coloured
Power output:	4.5 W (0.37 A at 12 V)
Light colour:	4000 K (neutral white)
Illuminance:	4x compared to the bulb version
Lens:	clear
Assembly:	Mounting
Voltage:	Multivolt 9–31 V
	2XT 008 929-011

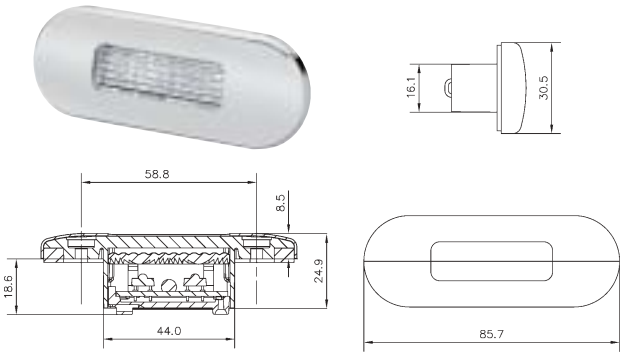
Orientation lighting



MINI THINLED	
Number of LEDs:	5 white or 3 blue LEDs
Connection:	electrical, using a cable 170 mm long
Illumination angle:	34° (wide at close range)
Illuminance in 1 m:	7.2 lux
IP protective class:	6K9K
Power output:	2.8 W (0.23 A at 12 V)
Lens:	clear
Assembly:	Surface-mounting, permanently bonded with base plate
Voltage:	12 V
Temperature range:	–40 °C to +60 °C
5 white LEDs	**2JA 343 660-101/-107**
3 blue LEDs	**2JA 343 660-021**

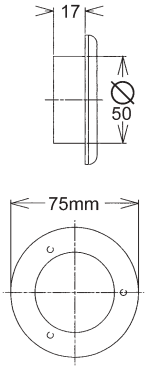


LED STEP LIGHT	
Number of LEDs:	2 LEDs
Connection:	electrical, with a cable 120 mm long
Illumination angle:	30°
Illuminance in 1 m:	15 lux
Feature:	with reverse polarity protection
IP protective class:	6K6 6K7
Power output:	0.5 W (0.04 A at 12 V)
Lens:	clear
Delivery scope:	Seal, attachment screws, and screw caps
Assembly:	Flush-mounting
Voltage:	Multivolt 10–33 V
White LEDs	**2XT 959 510-427**
Blue LEDs	**2XT 959 510-657**

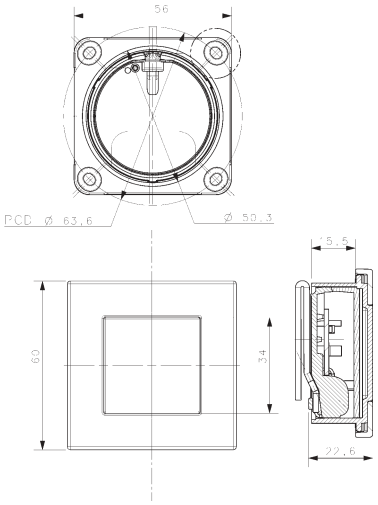


LED STEP LIGHT	
Number of LEDs:	1 LED
Feature:	with polished steel frame
Assembly:	Flush-mounting
Voltage:	Multivolt 10–33 V
1 blue LED	**2XT 959 680-612**
1 white LED	**2XT 959 680-812**

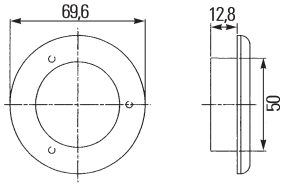
Orientation lighting



LED STEP LIGHT / COCKPIT OR MAP-READING LIGHT, EMERGENCY AND NIGHT-LIGHTING	
Number of LEDs:	4 LEDs
Connection:	with 120 mm cable
Power output:	1 W (0.06 A at 12 V)
Lens:	clear
Delivery scope:	Seal, attachment screws, and white ring to cover the 3 attachment screws
Assembly:	Flush-mounting
Voltage:	12 V
White LEDs	**2XT 959 500-677**
Blue LEDs	**2XT 959 500-207**
Accessories	
Stainless metal frame polished	**9AB 959 505-501**
Metal frame stainless and satined	**9AB 959 505-561**

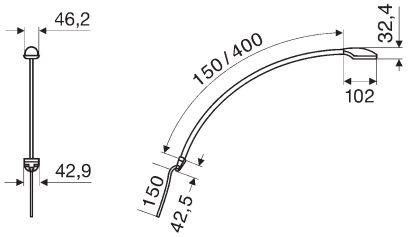


LED STEP LIGHT	
Number of LEDs:	4 white LEDs
Feature:	with square white frame
Power output:	0.5 W (0.04 A at 12 V)
Lens:	white
Assembly:	Flush-mounting
Voltage:	12 V
12 V	**2XT 980 580-052**
12 V, High-Power	**2XT 980 596-002**



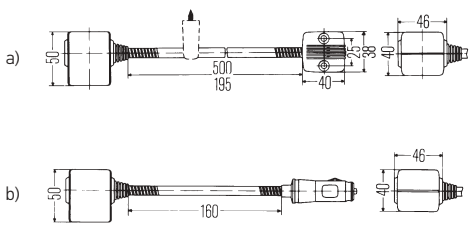
LED STEP LIGHT	
Number of LEDs:	4 white LEDs
Feature:	with polished steel frame
Power output:	0.5 W (0.04 A at 12 V)
Assembly:	Flush-mounting
Voltage:	Multivolt 10–33 V
12 V	**2XT 980 500-227**

Reading Lights



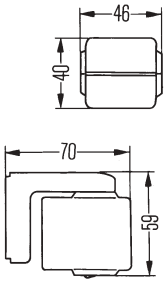
LED READING LIGHT, FLEXIBLY ADJUSTABLE ARM	
Number of LEDs:	1 white power LED
Connection:	electrical, with a cable 150 mm long
Illumination:	optimal for map-reading
Illumination angle:	38°
Illuminance in 0.7 m:	110 lux
IP protective class:	53
Power output:	2.5 W (0.20 A at 12 V)
Lens:	with optic
Assembly:	Mounting
Voltage:	Multivolt (9–31 VDC)
150 mm	**2JA 343 720-011**
400 mm	**2JA 343 720-111**
Finisher colour black*	
150 mm	**2JA 343 720-021**
400 mm	**2JA 343 720-121**
Finisher colour silver*	
150 mm	**2JA 343 720-291**
400 mm	**2JA 343 720-191**
with plug for cigarette lighter (150 mm)	
Finisher colour white	**2JA 343 720-071***
Finisher colour black	**2JA 343 720-081**
Finisher colour silver	**2JA 343 720-091**

* further finisher colours on request

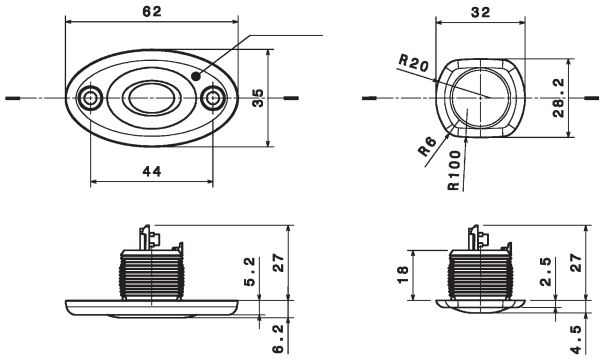


SPOT READING LIGHT	
Number of light sources:	1 Xenon bulb 12 V/6 W
Feature:	with flexible metal arm
Light source:	strong and glare-free
Power output:	6 W (0.50 A at 12 V)
Lens:	clear
Delivery scope:	with bracket for permanent surface-mounting
Assembly:	Mounting
Voltage:	12 V
a) for fixed installation	
500 mm	**2AB 004 532-001**
195 mm	**2AB 004 532-011**
b) with plug for cigarette lighter	
160 mm	**2AB 004 532-021**
Accessories	
Red lens	**9EL 128 922-011**
Spare Parts	
Xenon bulb, 12 V	**8GP 007 676-121**
Bracket	**9XB 136 202-005**

Reading light and ambient lighting



READING LIGHT	
Number of light sources:	1 halogen bulb
Connection:	250 mm long cable
Feature:	integrated ON/OFF switch in light head, can be turned (340°), can be pivoted (330°)
Housing:	black
Power output:	5 W (0.42 A at 12 V)
Lens:	red or white replaceable
Assembly:	Mounting
Voltage:	12 V
	2AB 004 532-102



LED READING LAMP	
Number of LEDs:	1 LED
Illuminance in 1 m:	5 lux
IP protective class:	20
Power output:	0.3 W (0.02 A at 12 V)
Lens:	clear
Delivery scope:	3 frames (white, grey and black)
Assembly:	Surface-mounting via attachment element
Voltage:	12 V
LED red	**2JA 344 170-001**
LED blue	**2JA 344 170-011**
LED white	**2JA 344 170-021**
LED amber	**2JA 344 170-031**
Variant LED white with silver instead of grey frame	**2JA 344 170-201**

ACCESSORIES

Intelligent Battery Sensor	Page	**69 – 70**
Switches, plugs, sockets	Page	**71 – 72**
Battery chargers	Page	**73**
Hazard warning lights	Page	**73**
Hand lamps	Page	**73**
Boxes of spare bulbs	Page	**73**
Notes	Page	**74 – 75**

You will find more accessories, relays, normally open relays, changeover relays, sensors, actuators and work lights in our main catalogues and on the internet.

IBScontrol:
Intelligent battery sensor with colour display

Which motorhome and caravan enthusiast has not had this experience? Shortly before the start of the holiday, the motorhome or caravan battery is fully charged and ready to go. The first days of the holiday go just fine, but then the battery dies completely. Nothing works! The reasons are varied. On the one hand, there are more and more consumers in the vehicle. Also, as the battery ages, it loses the ability to recharge at 100% of its nominal capacity. The IBScontrol from HELLA measures the virtually available capacity of a battery and transparently shows it in a colour display.

IBScontrol reduces battery risk to a minimum:

- → Continuous battery monitoring
- → The key information at a glance
- → Precision through battery-specific adjustment
- → Energy management of consumers
- → Intuitive operation
- → Very easy installation thanks to plug & play

IBScontrol: The details

- → Intelligent battery sensor with colour display for 12 V vehicle electric systems
- → Connection of one or two batteries possible
- → Precise determination and representation of battery capacity, aging and remaining running time
- → Comfortable energy management for upgrading
- → Very low current consumption thanks to automatic switch-off
- → Four switch outputs and buzzers individually programmable, including hysteresis
- → Battery-specific adaptation of the system through selecting the respective battery characteristics (standard starter, Gel and AGM)
- → Data logging on SD card with simple analysis option
- → Surface-mounted or flush-mounted version

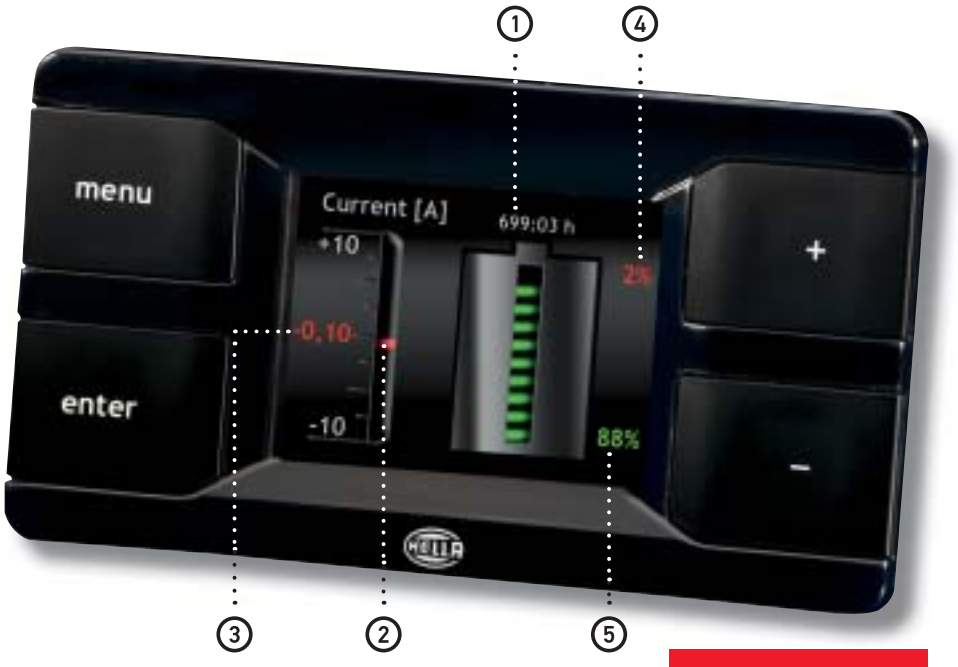
1. Remaining progress display
Shows the remaining running time with current consumption value

2. Current display
Red = discharging
Green = charging

3. Current as numerical value
Example: Current drain 0.1 A

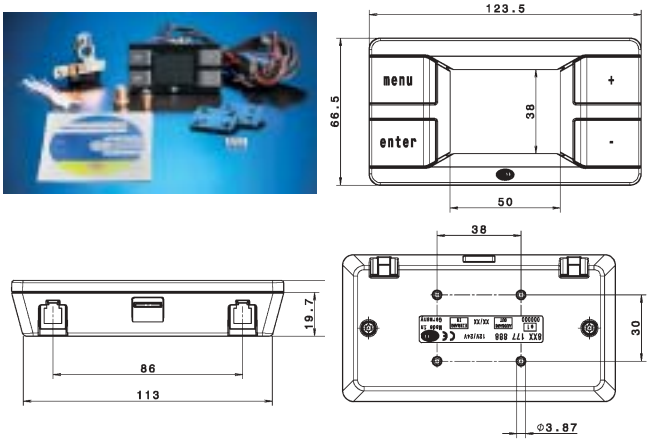
4. Battery aging
(SOH = State of health)
Example: The original battery capacity is already reduced by 2 %

5. State of charge
(SOC = State of charge)
Current state of charge of the battery
Example: State of charge 88 %



Made in Germany

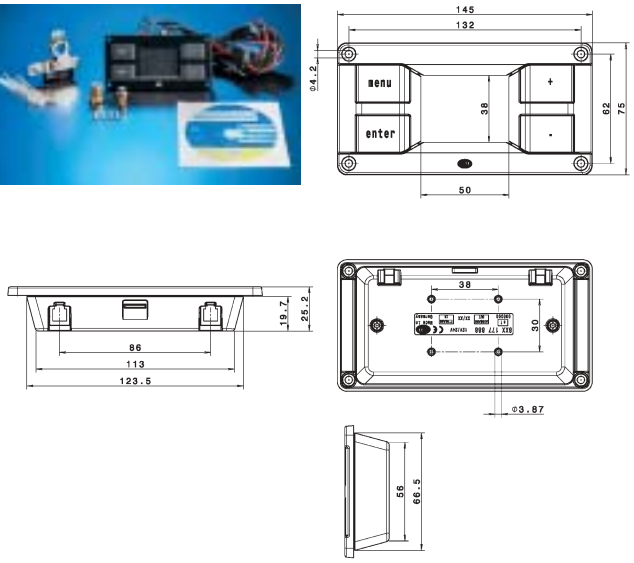
IBScontrol: The variants



IBSCONTROL SET
WITH DISPLAY FOR SURFACE-MOUNTED VARIANT

- → IBScontrol display (brilliant, black)
- → IBS Battery Sensor
- → Battery pole adapter
- → Completely pre-assembled harness
- → Operating/mounting instructions (CD ROM)
- → Assembly group (screw, cable tie, retaining plates as per variant)

Surface-mounted variant	**6PY 178 103-811**



IBSCONTROL SET
WITH DISPLAY FOR FLUSH-MOUNTED VARIANT

- → IBScontrol display (brilliant, black)
- → IBS battery sensor
- → Battery pole adapter
- → Completely pre-assembled harness
- → Operating/mounting instructions (CD ROM)
- → Assembly group (screw, cable tie, retaining plates as per variant)

Flush-mounting variant	**6PY 178 103-831**

IBSCONTROL
EXPANSION KIT

Expansion kit for monitoring a second battery, battery sensor IBS, battery pole adapter, completely pre-assembled harness

Set	**6PY 178 103-841**

Accessories

BATTERY CIRCUIT-BREAKER

for flush-mounting or surface-mounting, removable side wall – several switches can be connect with one another, cable connection: 2 screws M10, protective rating IP 56 according to DIN 40 050, load capacity: 225 A (permanent load) at 12 V/24 V, max. 1000 A (10 s) at 12 V/24 V, central contact (58L/7) with contact pin, load capacity: 20 A at 12 V

	6EK 002 843-071

BATTERY CIRCUIT-BREAKER

Max. load: 1000 A at 12 V (10 s), 500 A at 24 V (10 s),
max. constant load: 50 A with connected cable of 35 mm
Type of protection DIN 40050, IP X2

	6EK 002 843-002

SERIES OF ROCKER SWITCHES

The entire range of switches can be found in the main HELLA Electrics catalogue.

without illumination, with orientation lighting or with functional lighting	**6EH 007 832-...**
Switch with symbol for steps	**6EH 354 100-...**

DOOR CONTACT SWITCH

Load capacity: 0.4 A at 12 V

	6ZF 007 239-001

CONNECTOR SOCKET / PLUG

7-pin in accordance with ISO 1724, plastic version, screw connections, 12 V

Connector socket	**8JB 001 943-003**
Connector	**8JA 001 930-003**

CONNECTOR SOCKET

13-pin in accordance with ISO 11 446, plastic version, screw connections, 12 V

with rubber grommet and rubber seal in hinged cover	**8JB 005 949-001**
with rear fog light switch-off	**8JB 005 949-011**

CONNECTOR

13-pin in accordance with ISO 11 446, plastic version, screw connections, with rubber grommet

12 V	**8JA 005 951-001**

SUPER-SHORT ADAPTER

from 13-pin socket (ISO 11 446) on the traction vehicle to 7-pin connector (ISO 11 446) on the trailer

12 V	**8JA 008 969-001**

Accessories

CABLE ADAPTER

from 13-pin socket (ISO 11 446) on the traction vehicle to 7-pin connector (ISO 11 446) on the trailer, with cable 250 mm long

12 V	**8JA 005 952-001**

MINI-SHORT ADAPTER

from 7-pin socket (ISO 1724) on the traction vehicle to 13-pin connector (ISO 11 446) on the trailer

12 V	**8JA 008 981-001**

SOCKET

2-pin in accordance with ISO 4165, without cover, 6.3 mm male spade connectors, load capacity: max. 16 A

6 –24 V	**8JB 001 946-072**

SOCKET

2-pin in accordance with ISO 4165, 6.3 mm male spade connectors, Load capacity: max. 16 A, 6 –24 V

a) with spring-loaded cover	**8JB 001 946-082**
b) with arresting cover	**8JB 001 946-092**

SURFACE-MOUNTED SOCKET

2-pin according to ISO 4165, screw connections, Load capacity: max. 16 A

6 –24 V	**8JB 004 123-001**

POWER SOCKET

2-pin with cover and clamping sleeve, suitable for cigarette lighter socket, 6.3 mm male spade connectors, load capacity: max. 16 A

6 –24 V	**8JB 008 023-001**

UNIVERSAL CONNECTOR

2-pin with screwed tension relief and 8 A fuse, suitable for cigarette lighters and standard sockets (ISO 4165), screw connection up to 2.5 mm

6 –24 V	**8JA 007 589-001**

CONNECTOR

2-pin in accordance with ISO 4165

6 –24 V	**8JA 002 262-001**

Accessories

MINI-CHARGER BATTERY CHARGER AUTOMATIC 6/12 V

CE-certified, 230 V/50 Hz/10 W,
Charging current at 6 V = 0.8 A or at 12 V = 0.6 A, automatic switch-off,
suitable for yellow batteries, with reverse polarity protection

8ES 006 266-011

POWER CHARGER BATTERY CHARGER 10 AUTOMATIC

CE-certified, 230 V/50 Hz/130 W,
Normal charge 7 A, fast charge 10 A,
Automatic switch-off operationally safe due to overload protection

8ES 004 417-051

TURBO-CHARGER BATTERY CHARGER

CE-certified, 230 V/50 Hz/350 W,
Normal charge 9 A, fast charge 17 A,
operationally safe due to overload protection

8ES 004 417-061

HAZARD WARNING LIGHT MODEL 3003 ACCU

when the engine is running, the rechargeable battery is charged through contacts in the charging bracket. Automatic voltage switchover to match vehicle electric system 12/24 V, operating time in flashing mode 40 hours or 7 hours as work light, charging bracket and lead-gel rechargeable battery included in the scope of supply

type-tested	**2XW 007 146-011**

HAZARD WARNING LIGHT MODEL 3003

with attachment bracket (for battery operation through 5 mono cells, not included in the scope of supply)

type-tested	**2XW 007 146-001**

BOXES OF SPARE BULBS

A must for every responsible camper. The assortment contains one bulb each for the most common lighting functions as well as various spare fuses.

H4, 12 V	**8GJ 002 525-913**
H9, 12 V (not shown)	**8GH 007 157-901**

HAND LAMP

with 11 Watt PL-tube, impact-proof protective tube, handle and cap made of oil and petrol-resistant rubber, length 44 cm, protective rating IP 64

Protective rating II	**2XM 001 974-051**

LED HAND LAMP

30 LEDs, 12 V	**2XM 001 974-211**
60 LEDs, 12 V	**2XM 001 974-221**

PART NUMBER	UNIT PER PACKAGE
8JD 156 151-807	20
5DF 009 244-007	24
2PT 009 496-007	20
1K0 247 043-117	36
1K0 247 043-127	36
1BL 247 042-177	36
8JD 156 151-807	20
8JD 156 150-807	20
1BL 247 042-007	36
1ML 247 042-027	36
1K0 247 043-007	36
1K0 247 043-017	36
1K0 247 043-157	36
1K0 247 043-167	36
1BL 247 042-217	36
8JA 990 295-127	10
1BL 008 194-007	8
1LL 008 194-037	8
1BL 008 194-047	8
1LL 008 193-117	36
1K0 008 192-007	8
1K0 008 192-017	8
1K0 008 191-017	36
9AH 254 228-017	36
9AH 157 659-007	20
8JD 156 151-807	20
8JD 156 150-807	20
8JD 158 175-807	20
8HG 138 620-007	100
6NM 007 282-227	42
9GH 152 654-007	252
1N0 008 582-007	24
9GH 158 051-007	36
1BL 009 071-047	12
1BL 009 071-007	24
1ML 009 071-017	24
1F0 008 390-317	12
1NL 008 090-317	24
9AH 161 786-017	12
9AH 161 784-017	12
8JD 156 150-807	20
8JD 158 175-807	20
6NM 007 282-227	42
9GH 152 654-007	252
9GH 147 009-007	30

PART NUMBER	UNIT PER PACKAGE
2PG 343 690-107	96
2PG 343 690-117	96
2PG 343 690-317	96
2PF 959 570-427	16
8HG 959 571-007	80
2PF 964 295-257	20
2BA 008 221-107	20
8KA 152 134-007	20
2BA 343 130-057	30
2BE 343 130-007	30
2VP 343 590-017	10
2VP 343 590-027	10
2VP 343 590-037	10
2VP 343 590-047	10
2VP 343 590-057	10
2VP 343 590-067	10
2VP 343 590-077	10
2VP 343 590-087	10
2VA 341 419-097	10
2VP 341 419-107	10
2VP 341 419-157	10
2VA 341 419-167	10
2VA 341 419-077	10
2VP 341 419-087	10
2VP 341 419-177	10
2VA 341 419-187	10
2SD 343 440-017	10
2SK 343 440-027	10
2SK 343 440-037	10
2SD 343 440-047	10
2VP 343 520-017	18
2VP 343 520-027	18
2VP 343 520-057	18
2VP 343 520-067	18
2VA 341 419-017	10
2VA 341 419-027	10
2VP 341 419-037	**10**
2VP 341 419-047	**10**
2VA 341 419-067	**10**
2VA 341 419-117	10
2VA 341 419-147	10
2VP 341 419-127	10
2VP 341 419-137	10
2SB 008 982-307	36
2SB 008 982-367	36

PART NUMBER	UNIT PER PACKAGE
2BA 008 982-347	36
9GD 159 740-007	350
2SA 008 805-007	36
2DA 008 805-017	36
2SB 008 805-027	36
2BA 008 805-057	36
2NE 008 805-037	36
2ZR 008 805-047	36
2SD 343 910-017	48
2SD 343 910-027	50
2SB 344 200-027	24
2BA 344 200-037	24
2SD 344 200-207	24
2SD 344 200-217	24
2SD 344 200-257	24
2SB 344 200-227	24
2SB 344 200-237	24
2BA 344 200-247	24
2BA 964 169-507	20
2SB 964 169-537	20
2ZR 964 169-517	20
2NE 964 169-527	20
2TA 964 169-147	20
2SB 964 169-287	20
2SA 008 221-127	20
2DA 008 221-167	20
2BA 008 221-147	20
2NE 008 221-137	20
2ZR 008 221-157	20
8KA 152 134-007	20
9GT 137 236-007	20
9XB 161 749-007	75
2SA 009 001-047	60
2DA 009 001-057	60
2SB 009 001-067	60
2BA 009 001-007	60
2NE 009 001-027	60
2ZR 009 001-017	60
8RA 009 001-037	60
9HB 161 122-007	10
9XD 161 119-007	30
9XD 161 119-017	30
2BA 965 039-027	24
2NE 965 039-037	24
2ZR 965 039-047	24

PART NUMBER	UNIT PER PACKAGE
2SB 965 039-057	24
2SA 965 039-307	24
2DA 965 039-317	24
2BA 965 039-347	24
2NE 965 039-327	24
2ZR 965 039-337	24
2SB 965 039-357	24
2SD 343 390-407	24
2SB 343 130-027	30
2BA 343 130-057	30
2NE 343 130-037	30
2ZR 343 130-047	30
2SA 343 400-217	30
2SA 343 400-227	30
2DA 343 400-237	30
2DA 343 400-247	30
2ZR 343 400-297	30
2ZR 343 400-307	30
2NE 343 400-277	30
2NE 343 400-287	30
2BA 343 400-257	30
2BA 343 400-267	30
2SB 343 400-317	30
2SB 343 400-327	30
2XS 008 479-107	90
2XS 008 479-117	90
2TM 343 690-157	96
2TM 343 690-167	96
2TM 343 690-357	96
2TM 343 690-367	96
2DA 343 800-007	48
2DA 343 800-057	48
2DA 959 071-537	10
2DA 959 071-037	10
2DA 343 106-007	30
2DA 343 106-207	30
2DA 008 136-027	60
2DA 008 136-017	60
8KA 146 751-007	56
8KA 144 707-007	56
9GT 146 757-007	1000
8RA 343 160-007	150
8RA 343 160-027	150
8RA 343 160-017	150
2NE 344 610-007	36

PART NUMBER	UNIT PER PACKAGE
8RA 344 610-017	45
8RA 343 220-007	30
8RA 343 220-017	30
2KA 001 378-127	100
2KA 959 640-607	8
2PS 343 690-047	96
2PS 343 690-007	96
2PS 343 690-067	96
2PS 343 690-027	96
9GD 343 697-007	50
9GD 343 697-107	50
2PS 343 690-617	84
2PS 343 690-607	84
2XS 964 295-037	50
2PS 964 295-067	80
2PS 009 226-027	300
2PS 962 964-037	160
2PS 009 226-077	300
2PS 009 226-067	300
9GT 186 597-007	600
2BM 006 692-017	18
2BM 006 692-027	18
2BM 008 355-017	30
8KA 157 425-007	30
2BM 008 771-007	30
2JA 343 570-117	48
2JA 343 570-157	48
2JA 343 606-007	30
2JA 998 560-017	20
2JA 998 560-057	20
2JA 343 660-107	30
2XT 959 510-427	36
2XT 959 510-657	36
2XT 959 500-677	24
2XT 959 500-207	24
2XT 980 500-227	24

NOTES

HELLA KGaA Hueck & Co.
Rixbecker Straße 75
59552 Lippstadt, Germany
Tel.: +49 2941 38-0
Fax: +49 2941 38-7133
Internet: www.hella.com

HELLA Limited
Wildmere Industrial Estate
Banbury, Oxon OX16 3JU
Tel.: (01295) 225600
Fax: 0800 7832571
E-mail: hella.sales@hella.com
Website: www.hella.co.uk

HELLA Ireland Limited
Woodford Business Park
Santry, Dublin 17
Republic of Ireland
Tel.: +353 (1) 8620000
Fax: +353 (1) 8621133
E-mail: irlsales@hella.com
Website: www.hella.ie

© HELLA KGaA Hueck & Co., Lippstadt
9Z2 999 131-296 KB/08.11/2.3
Printed in Germany