

Mounting instruction Anbauanweisung

L-DL-FSCT 03.02.2015

HELLA KGaA Hueck & Co.

2SK 980 602 Type: Typ: (2SK 980 613)

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Belongs to approval no.: E24 5894 Gehört zu Gen.-Nr.:

Rear Position- Stop Lamp, Rear Direction Indicator and Reverse Lamp for Automobile. Schluss- Bremsleuchte, hinterer Fahrtrichtungsanzeiger und Rückfahrscheinwerfer für Kraftfahrzeuge.

	iht source(s): htauelle(n):		Test voltage: Prüfspannung:	Voltage range: Spannungsbereich:	Nominal power: Nennleistung:
1	Rear Direction Indicator Hinterer Fahrtrichtungsanzeiger	6 LEDs	28V	18V – 32V	зw
2	Stop Lamp Bremsleuchte	6 LEDs	28V	18V - 32V	3W
2	Rear Position Lamp Schlussleuchte	6 LEDs	28V	18V – 32V	1W
3	Reverse Lamp Rückfahrscheinwerfer	6 LEDs	28V	18V - 32V	3W

Centre of reference in accordance with the ECE-Regulations-No.: 6, 7 and 23. H = Bezugspunkt nach den ECE-Regelungen-Nr.: 6, 7 und 23.

Centre of reference for the definition for illuminating surface in accordance with the Council Directive 76/756 EEC or ECE-Regulation No. 48 (see Annex A). ⇒ = Bezugspunkt zur Bestimmung der Grenzen der leuchtenden Fläche nach 76/756 EWG bzw. ECE-Regelung Nr. 48. Markierung s. auf der Abschluss-Scheibe. Maße s. Anlage A.

Axis of reference: Parallel to the car centre line and parallel to the road. Bezugsachse: Parallel zur Fahrzeuglängsachse und parallel zur Fahrbahn.

The lamp can be rotated 180° around the reference axis. Die Leuchte kann auch 180° gedreht um die Bezugsachse angebaut warden.

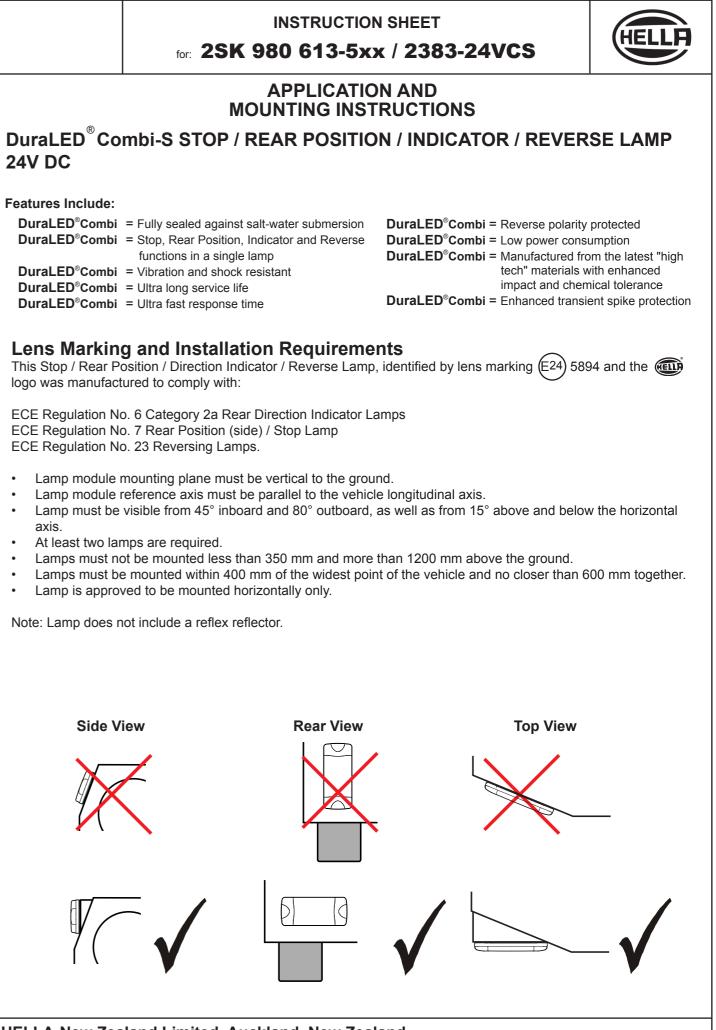
For left- and right hand mounting.

Für links- und rechtsseitigen Einbau.

The device must be mounted according to the enclosed fitting documents (e.g. sketch + Annex A) Der An- bzw. Einbau der Geräte hat nach anliegenden An- bzw. Einbauunterlagen (z. B. Skizze und Anlage A) zu erfolge

- axis.

- Lamp is approved to be mounted horizontally only.



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for: 2SK 980 613-5xx / 2383-24VCS

Lamp Mounting Instruction

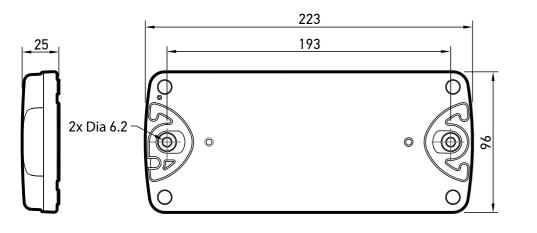
Screw Cap Removal

Carefully insert a small flat blade screwdriver between the cap and the lens and pull towards the lens, the cap will clip off. To install the cap push in by hand until the top is flush with the lens.

Surface Mounting

- Drill two holes up to 6.5mm Ø at 193mm centres. 6mm Ø screws or • bolts are recommended to mount the lamp using the mounting bushes provided.
- Lamp should be mounted on a flat surface.
- If passing the cable through a hole, ensure there are no sharp edges bush to cut or chafe the cable. Alternatively, cable can be routed through the end of the base.
- Connect lamp as per chart below.
- Try to keep the cable as long as possible, preferably join the cable inside a sealed cable junction box.
- Clip the screw caps on securely until flush with the lamp surface.





Wiring Colour Coding

Lamp is polarity conscious. The reversal of the polarity will not damage this product but will inhibit its function.

HELLA recommends wire connections be soldered, and heat shrink tubing applied to seal the joint.

Colour	Connect to	Power Consumption
White	Earth (-)	-
Red	Stop (+)	3 watts
Brown	Rear Position (+)	1 watt
Green	Indicator (+)	3 watts
Pink	Reverse (+)	3 watts

NB: Lamp must be protected by a fuse rated at 5 amperes maximum.

Direction Indicator Lamps with HCS trigger pulse work in conjunction with HCS / ISO 13207-1 compliant failure detection systems. If additional lamps are fitted beyond the amount supported by the HCS / ISO 13207-1 compliant failure detection system then they must be wired separately so as not to be detected.

Vehicle Owner

Introduction

LED signal and marker lamps offer many advantages over conventional bulb lamps. Significantly reduced power consumption, ultra long life and high tolerance to shock and vibration make LED lamps the ideal choice for the commercial transport industry, where the cost of ownership versus the initial purchase price of the product is well understood.

Compatibility to existing electrical systems

It is important for the installer to ascertain the compatibility of the low power consumption LED lamps with the electrical and/or electronic systems of the complete vehicle, including trailers. In most cases the reduced power consumption is beneficial by imposing less demands on the entire electrical system. For certain functions some electrical systems rely on a set power consumption for monitoring whether, for example, a trailer is connected.

Operation of this lamp using alternating current or modulated direct voltage will cause premature light failure. HELLA recommends connecting ADR or ECE certified LED signal and marker lamps to a continuous (unmodulated) 24V power supply to ensure safe light operation.

Bulb failure monitoring for indicator lamps

The indicator bulb failure warning (if fitted to the vehicle) relies on the full load of a 21-watt bulb in most cases. LED lamps with trigger pulse have integrated electronics for failure checking, if operating correctly the lamp will pulse a resistive load during the flasher "on" cycle to simulate this load. If the vehicle manufacturer does not guarantee indicator bulb failure control via the vehicle wiring system than Hella can supply electronic control and flasher units which make it possible to convert the indicator failure system to suit LED lamps with trigger pulse.

Electromagnetic Compatibility (EMC)

This LED lamp is an electronic device. The electrical circuits contain components that suppress possible interference, both emission as well as susceptibility, to the limits prescribed in UNECE Vehicle Regulation No. 10.

To avoid false signals or interference, it is standard practice that sensitive instrumentation such as ABS and Tachometers etc. are provided with direct earths.

Protection against damage due to voltage spikes

This LED lamp is protected against damage from positive voltage spikes caused by events such as load dump conditions specified in ISO 7637 and contains a Transient Voltage Suppressor (TVS) designed to withstand a pulse of up to 5000 Watts.

The lamp is protected against reverse polarity connection and negative voltage spikes of up to 1000 volts.

Electric Welding

Electric Welding may damage the LED lamps. For LED lamps, HELLA recommends the negative connection to be wired isolated from the vehicle chassis. If the lamp uses the chassis as the earth return it is recommended that this earth return is disconnected during electric welding.

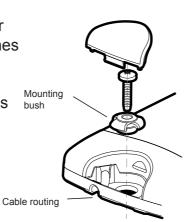
FIT AND FORGET - BY DESIGN

Congratulations, the product you have selected comes from HELLA - a world leader in LED lighting design.

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

The cornerstone to the success of our products is our no compromise Fit and Forget - by Design philosophy which is incorporated into every step of the product life cycle.

In a world consuming finite resources at an ever faster rate, Fit and Forget - by Design is the right environmental choice that also makes perfect economic sense to customers that consider the total life cycle Cost of Ownership. For general comments about Hella's products please contact us on E-mail at techfeedback@hella.co.nz



Cable Exit Location

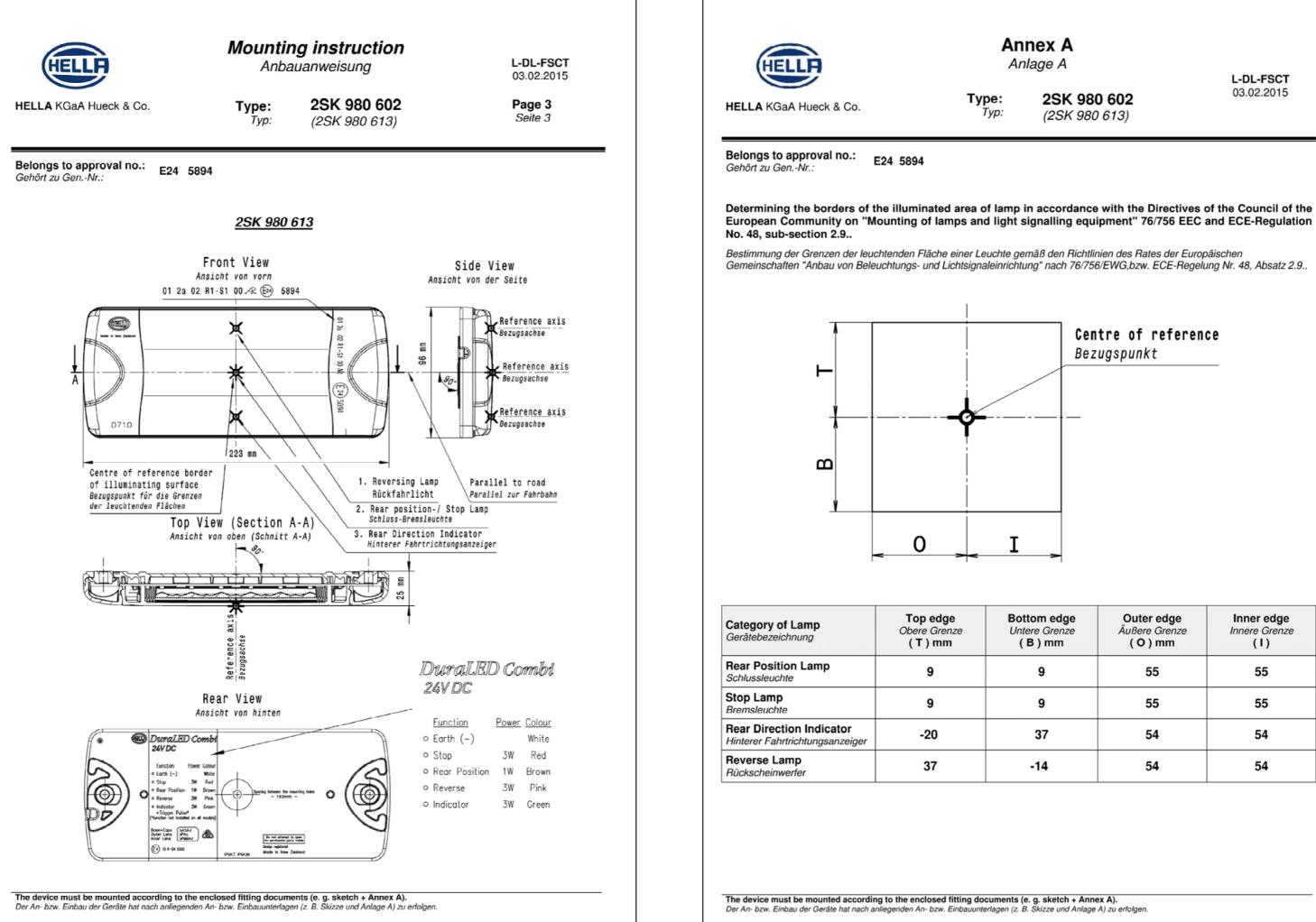
Note: Bolts not included

6mm Ø max

Important Notes for Installer and







Annex A Anlage A

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	Centre of reference Bezugspunkt
>	

e Grenze) mm	Outer edge Äußere Grenze (O) mm	Inner edge Innere Grenze (I)	
9	55	55	
9	55	55	
37	54	54	
14	54	54	