INSTRUCTION SHEET for: 2XS 980 855-3xx / 2310(S)



ADR - APPLICATION AND MOUNTING INSTRUCTIONS

ADR 49/00 Rear End-Outline Marker Lamp ADR 49/00 Rear Position (Side) Lamp

REAR END-OUTLINE MARKER LAMP AND REAR POSITION (SIDE) LAMP Multivolt 12 / 24V DC

Lens Marking and ADR 13/00 Installation Requirements

This lamp, identified by lens marking 0855 and the logo was manufactured to comply with ADR 49/00 Rear End-Outline Lamps / Rear Position (Side) Lamps.

- A tolerance of +/-3 degrees applies on all mounting details.
- Lamp mounting surface must be vertical to the ground and be square to the longitudinal axis of the vehicle.
- · Lamp reference axis can be horizontal or vertical.

Rear End-Outline Marker Lamp

Lamp must be visible between

Horizontal angle: 0° inwards (parallel with vehicle axis) and 80° outwards

Vertical angle: 5° above and 20° below the horizontal

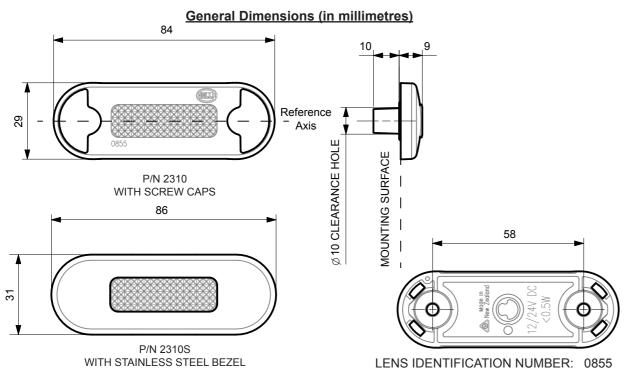
Rear Position (Side) Lamp

Lamp must be visible between

Horizontal angle: 45° inwards and 80° outwards

Vertical angle: 15° above and below the horizontal

Note: Please refer to ADR 13/00 for more details.



CATALOGUE NUMBER	ENGINEERING NUMBER	CRN NUMBER	COMPLIAN NUMBER		ADR 51/00 GLOBE	ADR APPLICABLE
2310(S)	2XA 980 855-3x	45631	2310*REOM	*C	N/A LED	ADR 49/00
AMENDMENTS					COMPLIANCE FIED	ISSUE DATE:
						09/2013
						03/2013
				-	out.	958 780-71
HELLA-New Zealand Limited, Auckland						

958 780-71 / 03.20

INSTRUCTION SHEET for: 2XS 980 855-3xx / 2310(S)



ADR - APPLICATION AND MOUNTING INSTRUCTIONS

ADR 49/00 Rear End-Outline Marker Lamp ADR 49/00 Rear Position (Side) Lamp

REAR END-OUTLINE MARKER LAMP AND REAR POSITION (SIDE) LAMP Multivolt 12 / 24V DC

Lens Marking and ADR 13/00 Installation Requirements

This lamp, identified by lens marking 0855 and the logo was manufactured to comply with ADR 49/00 Rear End-Outline Lamps / Rear Position (Side) Lamps.

- A tolerance of +/-3 degrees applies on all mounting details.
- Lamp mounting surface must be vertical to the ground and be square to the longitudinal axis of the vehicle.
- Lamp reference axis can be horizontal or vertical.

Rear End-Outline Marker Lamp

Lamp must be visible between

Horizontal angle: 0° inwards (parallel with vehicle axis) and 80° outwards

Vertical angle: 5° above and 20° below the horizontal

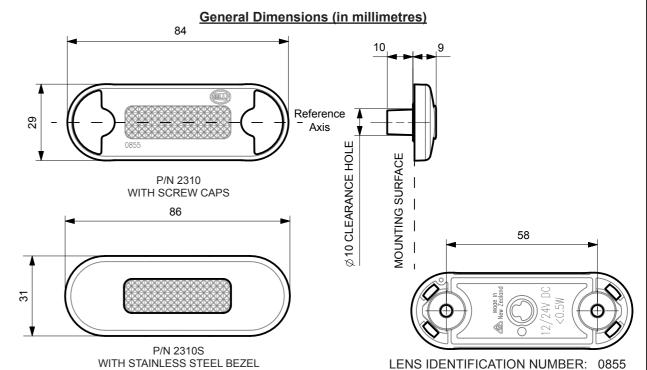
Rear Position (Side) Lamp

Lamp must be visible between

Horizontal angle: 45° inwards and 80° outwards

Vertical angle: 15° above and below the horizontal

Note: Please refer to ADR 13/00 for more details.



CATALOGUE NUMBER	ENGINEERING NUMBER	CRN NUMBER	COMPLIANO NUMBER		ADR 51/00 GLOBE	ADR APPLICABLE
2310(S)	2XA 980 855-3x	45631	2310*REOM	*C	N/A LED	ADR 49/00
	AMENDME	ENTS		ADR VERI	-	ISSUE DATE:
						09/2013
				-	o-	958 780-71

HELLA-New Zealand Limited, Auckland

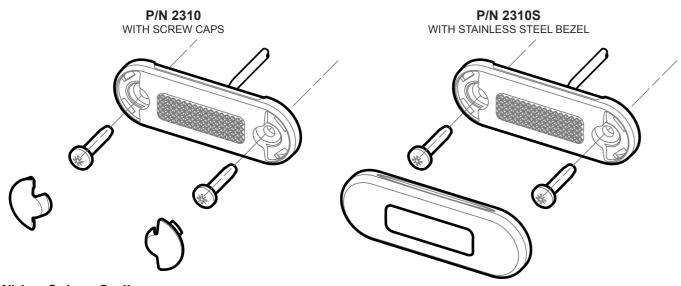
INSTRUCTION SHEET for: 2XS 980 855-3xx / 2310(S)



Lamp Mounting Instructions

- Lamp should be mounted on a flat surface with no curvature.
- Drill a minimum hole size of Ø10 mm through the mounting surface for the centre cable exit. The lamp can then be used as a template to mark the location of the mounting holes.
- Drill two mounting holes up to Ø5.5 mm at 58 mm centres through the mounting surface.
- Fasten the lamp, with a maximum torque of 2.5 Nm, to the mounting surface using two Ø5 mm screws or bolts (not included). For P/N 2310 a maximum screw head height of 4 mm is recommended.
- P/N 2310: Once the lamp is mounted, clip the screw caps on securely until flush with the lens surface.
- P/N 2310S: Once the lamp is mounted, clip the stainless steel bezel on securely to the lens.

Note: Do not use countersunk screws or overtighten the mounting screws in the plastic lens. Lamp is fully sealed and has no serviceable components.



Wiring Colour Coding

The LED lamp is multi voltage capable for optimum brightness in 12 and 24 Volt systems. LED modules are polarity conscious. Reverse 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		
Black	Earth (-)	-		
Red	Positive (+)	< 0.5 W		

NB: Lamp must be protected by a fuse rated at 2 amperes maximum.

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 Multivolt LED signal and marker lamps to a continuous (unmodulated) 12V or 24V power supply to ensure safe light operation.

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

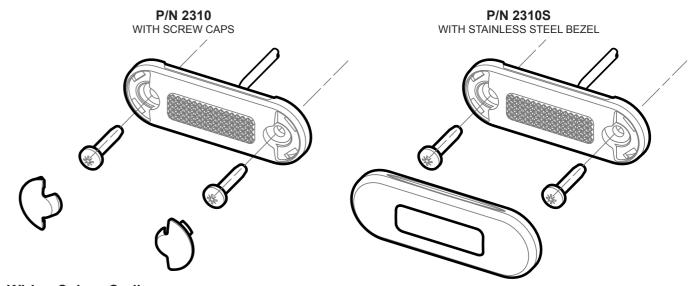
INSTRUCTION SHEET for: 2XS 980 855-3xx / 2310(S)



Lamp Mounting Instructions

- Lamp should be mounted on a flat surface with no curvature.
- Drill a minimum hole size of Ø10 mm through the mounting surface for the centre cable exit. The lamp can then be used as a template to mark the location of the mounting holes.
- Drill two mounting holes up to Ø5.5 mm at 58 mm centres through the mounting surface.
- Fasten the lamp, with a maximum torque of 2.5 Nm, to the mounting surface using two Ø5 mm screws or bolts (not included). For P/N 2310 a maximum screw head height of 4 mm is recommended.
- P/N 2310: Once the lamp is mounted, clip the screw caps on securely until flush with the lens surface.
- P/N 2310S: Once the lamp is mounted, clip the stainless steel bezel on securely to the lens.

Note: Do not use countersunk screws or overtighten the mounting screws in the plastic lens. Lamp is fully sealed and has no serviceable components.



Wiring Colour Coding

The LED lamp is multi voltage capable for optimum brightness in 12 and 24 Volt systems. LED modules are polarity conscious. Reverse 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
Black	Earth (-)	-
Red	Positive (+)	< 0.5 W

NB: Lamp must be protected by a fuse rated at 2 amperes maximum.

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 Multivolt LED signal and marker lamps to a continuous (unmodulated) 12V or 24V power supply to ensure safe light operation.

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