



## BRIEF INFORMATION

### Marker lamp DuraLED

- › Ease of installation: Plug & Play
- › High impact resistant lens made from Grilamid
- › Ultra long service life
- › Surface mount

## PRODUCT FEATURES

The marker lamps complement the extensive DuraLED product range and the DEUTSCH DT plug-in connection makes them particularly easy to install.

The ultra-durable marker lamps are fully Multivolt for optimum brightness on 12 and 24 Volt systems and come in a complete set of functions with matching front, rear and side marker lamps for a consistent look to your vehicle or trailer.

True to FORVIA HELLA's uncompromising quality standard these heavy duty marker lamps feature lenses made from Grilamid, the highly respected performance polyamide invented and manufactured in Switzerland.

The revolutionary transparent plastic offers an unbeatable combination of properties including toughness against impact, long term UV stability and resistance to commonly used chemicals and washes.

## FURTHER PRODUCT FEATURES

### Reverse polarity protection

If the polarity is accidentally reversed, the light does not suffer any damage.

### Contacts

DEUTSCH DT-connector

### Protection Class

Tested to IP 6K7 and IP 6K9K, this light is protected from dust and water ingress under constant immersion.

### High vibration resistance

The lights have been tested to FORVIA HELLA standard 67101 and meet the requirements for OEM production buses, commercial vehicles and tractors over 6.5 t.

### „Fit and forget“ technology

Hermetically sealed lamps by FORVIA HELLA are maintenance free and reliable.

## LED-LIGHTING TECHNOLOGY

As a leading innovator in the field of automotive original equipment, FORVIA HELLA is setting benchmarks:

### Extremely low energy consumption

With the combination of efficient light-emitting diodes (LEDs) and precision optics, FORVIA HELLA lights achieve the statutory light distribution with over 90% less power consumption compared to bulb lamps!

### High visibility from all angles

The lens design ensures a wide spread of light and increased visibility, especially when compared against other marker lamps at acute angles.

## PRODUCT IMAGES



Front view



Side view

Front Position / End Outline Lamp  
Optic appears clear until illuminated.



Sidemarker  
Optic appears clear until illuminated.



Supplementary Side Direction Indicator Lamp  
Optic appears clear until illuminated.



Rear Position / End Outline Lamp  
Optic appears clear until illuminated.



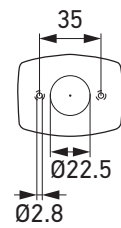
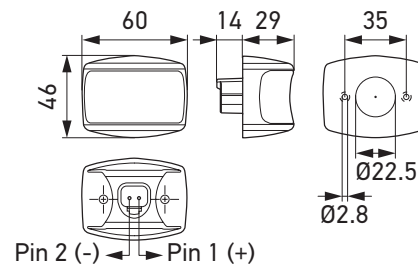
# TECHNICAL DETAILS

## Technical data

Operating voltage range	Multi-voltage (9–33 V)
Rated voltage	12 and 24 V
Power consumption	< 1 W
Light function	Supplementary side direction indicator light (Cat. 5) Side marker light (Cat. SM1) Position light Clearance light
Light source	2 LEDs
Temperature range	-40 °C to +60 °C
Protection class	IP 6K7, IP 6K9K
Approved	ECE-R10 Position lamp: ECE-R7 Side marker lamp: ECE-R91 Side direction indicator lamp: ECE-R6 Clearance lamp: ECE-R7 ADR / GGVEB
Protection	Polarity reversal protection
Specification	FORVIA HELLA standard 67101 Class 1.2, 2.2, 3.2, 4.1, 5.1, 6.1, 7.2, 10.2, 11.2
Mounting	Horizontally Screw connection with 2 screws Ø 4 mm
Connection	DEUTSCH DT connector

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

## Dimensional sketch







Hole Pattern



# APPLICATION EXAMPLES



# PROGRAM OVERVIEW

Product picture	Function	Part Number	Packaging Unit
	Position lamp	2PF 980 990-221	1
		2PF 980 990-227	8
	Side marker lamp (Cat. SM1)	2PS 980 990-301	1
		2PS 980 990-307	8
	Supplementary Side Direction Indicator Lamp (Cat. 5)	2BM 980 990-121	1
		2BM 980 990-127	8
	Clearance lamp	2XS 980 990-621	1
		2XS 980 990-627	8

## Accessories / Spare Parts

Product picture	Description	Part Number	Packaging Unit
	Black housing	9BG 980 996-002	1
	White housing	9BG 980 996-102	1