









Model Number

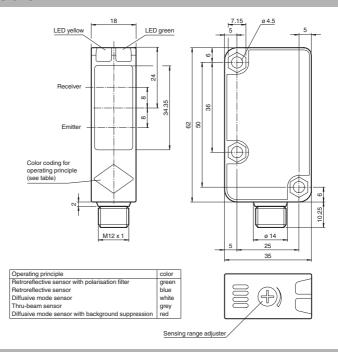
RL31-8-2500-IR/59/73c/136

Diffuse mode sensor with 4-pin, M12 x 1 connector

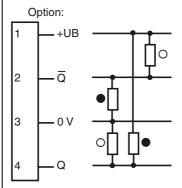
Features

- Highly visible LED
- Powerful push-pull output
- · Compact and stable housing
- Protection class II

Dimensions

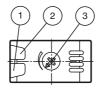


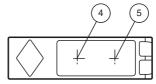
Electrical connection



- O = Light on
- = Dark on

Indicators/operating means





	1	Operating display	green	
	2	Signal display	yellow	
	3	Sensing range adjuster		
	4	Emitter		

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Receiver

Technical data General specifications 0 ... 2500 mm adjustable Detection range Reference target standard white 200 mm 200 mm IRFD Light source modulated infrared light, 850 nm Light type Polarization filter Diameter of the light spot approx. 50 mm at a distance of 2.5 m Angle of divergence 2 50000 Lux; according EN 60947-5-2 Ambient light limit Indicators/operating means Operation indicator LED green: power on **Function indicator** LED yellow, lights up with receiver lit Control elements Sensing range adjuster **Electrical specifications** Operating voltage 10 ... 30 V DC . class 2 U_B 10 % Ripple < 20 mA No-load supply current I_0 Output Switching type 2 push-pull (4 in 1) outputs, short-circuit protected, reverse Signal output polarity protected Switching voltage max. 30 V DC Switching current max. 100 mA ≤ 1.5 V Voltage drop U_{d} ≤ 500 Hz Switching frequency Response time < 1 ms Conformity Product standard EN 60947-5-2 **Ambient conditions** -30 ... 55 °C (-22 ... 131 °F) Ambient temperature Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** Housing width 18 mm Housing height 62 mm Housing depth 35 mm Degree of protection Connection 4-pin, M12 x 1 connector Material Housing Polycarbonate Optical face **PMMA** 25 g Approvals and certificates II , rated insulation voltage ≤ 250 V AC with pollution degree 1-Protection class 2 according to IEC 60664-1 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage

Accessories

OMH-RL31-01

Mounting bracket

OMH-RL31-02

Mounting bracket narrow

OMH-RL31-03

Mounting bracket narrow

OMH-RL31-04

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-RL31-05

Mounting bracket for mounting on flat surfaces with 2 M4 screws

OMH-RL31-06

Stainless steel mounting bracket with adjustable half clamp on the side

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

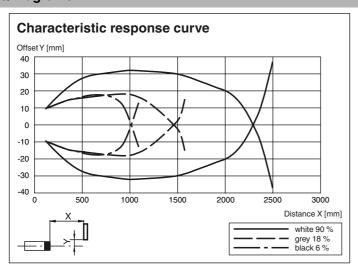
V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

Curves/Diagrams

UL approval CCC approval



240 V AC

cULus Listed, Class 2 Power Source, Type 1 enclosure

CCC approval / marking not required for products rated ≤36 V

