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Model Number

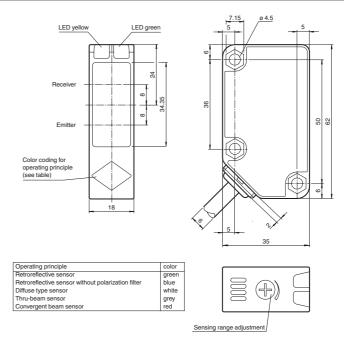
RL31-8-2500-IR/115/136

Diffuse mode sensor with 2 m fixed cable

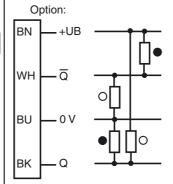
Features

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

Dimensions

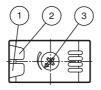


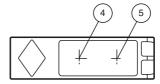
Electrical connection



- O = Light on
- = Dark on

Indicators/operating means





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

5 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 Ambient light limit 50000 Lux; according EN 60947-5-2 Functional safety related parameters MTTF_d 920 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % 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 UB 10 ... 30 V DC, class 2 Ripple 10 % No-load supply current ≤ 20 mA I_0 Output Switching type light on 2 push-pull (4 in 1) outputs, short-circuit protected, reverse pola-Signal output rity protected max. 30 V DC Switching voltage Switching current max. 100 mA Voltage drop U_d ≤ 1.5 V Switching frequency ≤ 500 Hz Response time ≤ 1 ms **Ambient conditions** Ambient temperature -30 ... 55 °C (-22 ... 131 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Housing width 18 mm Housing height 62 mm 35 mm Housing depth Degree of protection IP67 Connection 2 m fixed cable , 4-wire Material Housing Polycarbonate РММА Optical face Mass 133 g Compliance with standards and directi-EMC Directive 2004/108/EC Directive conformity Standard conformity Product standard FN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates II , rated insulation voltage \leq 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 **UL** approval cULus Listed, Class 2 Power Source, Type 1 enclosure

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 with M10 threaded rod

OMH-RL31-06

Stainless steel mounting bracket with adjustable half clamp on the side

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

CCC approval

CCC approval / marking not required for products rated \leq 36 V

Curves/Diagrams

