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Model Number

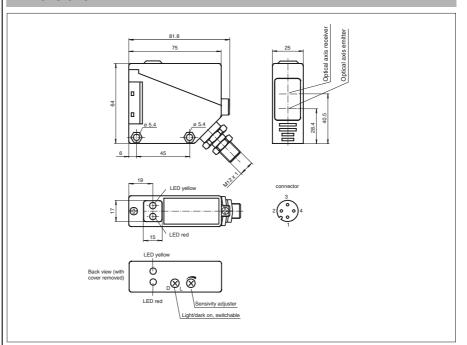
RL39-8-800/32/40a/73c/82a

Diffuse mode sensor with terminal compartment

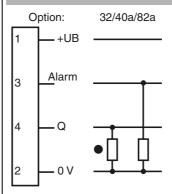
Features

- Infrared light
- Light/dark ON, switchable
- Degree of protection IP67

Dimensions



Electrical connection



- O = Light on
- = Dark on

Pinout

Wire colors in accordance with EN 60947-5-2



1	BN	(brow
2	WH	(white
3	BU	(blue)
4	BK	(black

Technical data General specifications 0 ... 800 mm Detection range Adjustment range 150 ... 800 mm standard white 200 mm x 200 mm Reference target Light source modulated infrared light Light type Ambient light limit IEC / EN 60947-5-2, 10000 Lux Functional safety related parameters MTTF_d 916 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED yellow: switching state Function indicator LED red: pre-fault indication Sensing range adjuster, light-on/dark-on changeover switch Control elements **Electrical specifications** Operating voltage 10 ... 30 V DC U_{B} Ripple 10 % ≤ 20 mA No-load supply current Time delay before availability ≤ 300 ms t_v Output Pre-fault indication output 1 PNP, active when falling short of the stability control Switching type Signal output 1 PNP output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC Switching current max. 200 mA, resistive load Voltage drop \leq 3 V U_{d} ≤ 300 Hz Switching frequency Response time ≤ 1.5 ms **Ambient conditions** Ambient temperature -25 ... 55 °C (-13 ... 131 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Housing width 25 mm Housing height 64 mm Housing depth 75 mm IP67 Degree of protection Connection 4-pin, M12 x 1 connector Material Housing Optical face **PMMA** Mass approx. 100 g General information Scope of delivery Mounting aid Compliance with standards and directi-Directive conformity EMC Directive 2004/108/EC EMC Directive 2004/108/EC EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012 Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates

Accessories

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable



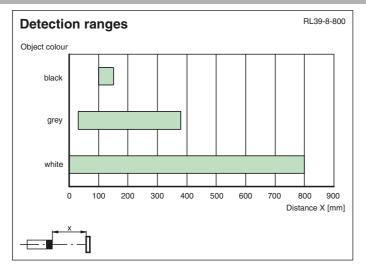
PEPPERL+FUCHS

CCC approval

Approvals

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

Curves/Diagrams



Additional Information

Conventional use:

The reflex light scanner contains the emitter and receiver in a single housing. The light from transmitter is beamed back from the recorded object is evaluated by the receiver. The detection range depend on the object colour. With dark or very small objects the detection range reduces.

Mounting instructions:

The sensor can be fastened over the through-holes directly or with the included mounting bracket.

The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Instructions for adjustment:

Adjust the sensor on the background. If the yellow LED illuminates, the detection range needs to be reduced with the detection range adjuster, until the yellow LED goes off.

Object detection check:

Position the object into the light beam. Position light spot on object. If the object is detected, the yellow LED illuminated. If it does not light up, further to adjust the detection range with the potentiometer, until the yellow LED lights up.

The red LED flashes if reception deteriorates (e.g. soiled lenses or by maladjustment) and when falling short of the stability control.

lustration:

We recommend that you clean the optical interfaces and check the plug-in connections and screw connections at regular intervals.