







Model Number

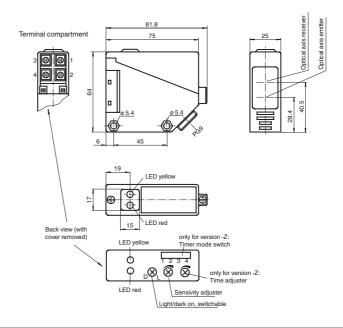
RLK39-8-800/31/40a/116

Diffuse mode sensor with terminal compartment

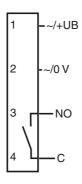
Features

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

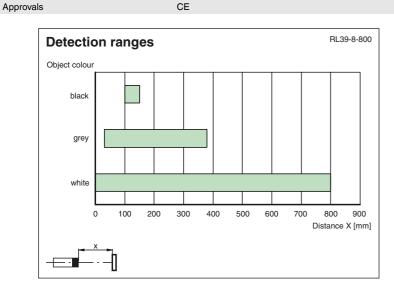
Dimensions



Electrical connection



Technical data General specifications 0 ... 800 mm Detection range Adjustment range 65 ... 800 mm standard white 200 mm x 200 mm Reference target Light source modulated infrared light Light type Ambient light limit 10000 Lux Functional safety related parameters $MTTF_d$ 1002 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 Detection range adjuster, light/dark switch Control elements **Electrical specifications** 12 ... 240 V DC Operating voltage U_B 24 ... 240 V AC (50 ... 60 Hz) 10 % No-load supply current ≤ 35 mA I_0 Power consumption P_0 \leq 3 VA ≤ 50 ms Time delay before availability Output Switching type light/dark on Signal output 1 relay output Switching voltage ≤ 240 V AC Switching current max. 3 A Switching frequency ≤ 25 Hz Response time ≤ 20 ms Standard conformity Standards EN 60947-5-2 **Ambient conditions** Ambient temperature -25 ... 55 °C (-13 ... 131 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Degree of protection IP67 Connection terminal compartment PG9, ≤ 2.5 mm² Material Housing PBT Optical face **PMMA** Mass 110 g Compliance with standards and directives EMC Directive 2004/108/EC Directive conformity Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates Certified by China Compulsory Certification (CCC) CCC approval



Additional Information

Accessories

OMH-RL39

Mounting bracket for RL39 series Sensors

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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.