









Model Number

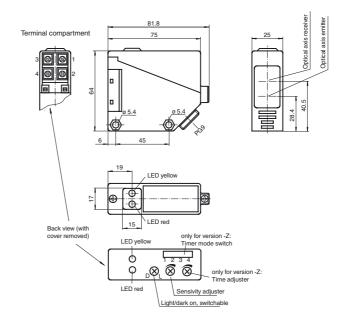
RLK39-8-2000-Z/31/40a/116

Diffuse mode sensor with terminal compartment

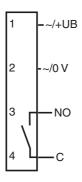
Features

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

Dimensions



Electrical connection



1

Technical data General specifications 0 ... 2000 mm Detection range Adjustment range 75 ... 2000 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 $MTTF_d$ 803 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 Control elements Detection range adjuster, light/dark switch Control elements switch for timer function **Electrical specifications** Operating voltage U_{B} 12 ... 240 V DC 24 ... 240 V AC (50 ... 60 Hz) Ripple 10 % No-load supply current I_0 \leq 35 mA Power consumption P_0 \leq 3 VA Time delay before availability ≤ 50 ms t_v Output light/dark on Switching type Signal output 1 relay output Switching voltage ≤ 240 V AC Switching current max. 3 A f ≤ 25 Hz Switching frequency Response time ≤ 20 ms Timer function On-/off-delay or pulse extension on choice Standard conformity Standards EN 60947-5-2 **Ambient conditions** Ambient temperature -25 ... 55 °C (-13 ... 131 °F) Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** Degree of protection IP67 terminal compartment PG9, ≤ 2.5 mm² Connection Material PRT Housing PMMA Optical face Mass 110 g Compliance with standards and directi-EMC Directive 2004/108/EC Directive conformity Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates CCC approval Certified by China Compulsory Certification (CCC)

Accessories

OMH-RL39

Mounting bracket for RL39 series Sensors

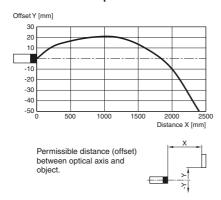


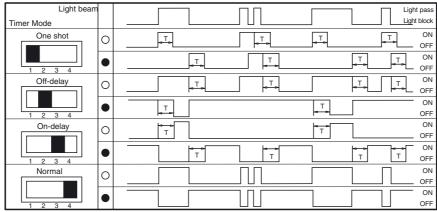
PEPPERL+FUCHS

Approvals

Curves/Diagrams

Characteristic response curve





- O Denotes Light ON T= 0.1 10 sec.
- Denotes Dark ON

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.