







Model Number

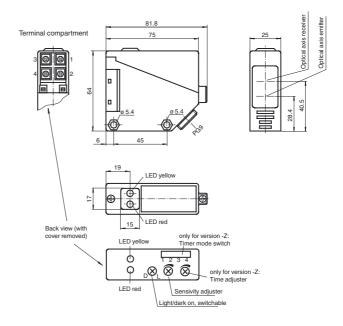
RLK39-8-2000/31/40a/116

Diffuse mode sensor with terminal compartment

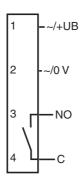
Features

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

Dimensions



Electrical connection



Technical data

General specifications

0 ... 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 1002 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 %

Indicators/operating means

Function indicator LED yellow: switching state 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 Time delay before availability ≤ 50 ms

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 PBT Housing Optical face **PMMA**

Mass 110 g

Compliance with standards and directi-

ves

EMC Directive 2004/108/EC Directive conformity

Standard conformity

Product standard EN 60947-5-2:2007

IEC 60947-5-2:2007

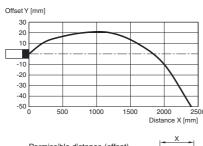
Approvals and certificates

Certified by China Compulsory Certification (CCC) CCC approval

Approvals

Curves/Diagrams

Characteristic response curve



Permissible distance (offset) between optical axis and object.



Accessories

OMH-RL39

Mounting bracket for RL39 series Sen-



PEPPERL+FUCHS

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.