









Model Number

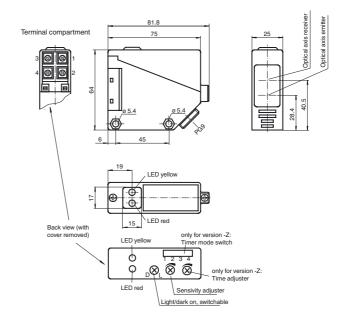
RLK39-54-Z/31/40a/116

Retroreflective sensor with terminal compartment

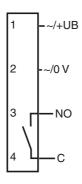
Features

- Glare protected with polarization filter
- Visible red light
- Light/dark ON, switchable
- Timer function
- Degree of protection IP67

Dimensions



Electrical connection



Technical data General specifications Effective detection range 0 ... 7 m Reflector distance 0.1 ... 7 m Threshold detection range 9 m H85 reflector Reference target Light source LED red Light type modulated visible red light Polarization filter 10000 Lux Ambient light limit 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 LED red: pre-fault indication Function indicator Control elements sensitivity adjustment Control elements Light/Dark switch Control elements switch for timer function **Electrical specifications** 12 ... 240 V DC Operating voltage U_{B} 24 ... 240 V AC (50 ... 60 Hz) Ripple No-load supply current ≤ 35 mA Power consumption P_0 \leq 3 VA Time delay before availability ≤ 50 ms Output Switching type light/dark on Signal output 1 relay output ≤ 240 V AC Switching voltage Switching current max. 3 A Switching frequency ≤ 25 Hz Response time ≤ 20 ms Timer function On-/off-delay or pulse extension on choice Standard conformity Standards EN 60947-5-2 **Ambient conditions** -25 ... 55 °C (-13 ... 131 °F) Ambient temperature Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** IP67 Degree of protection Connection terminal compartment PG9, ≤ 2.5 mm² Material Housing PBT Optical face PMMA Mass 110 g Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC 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

Accessories

OMH-RL39

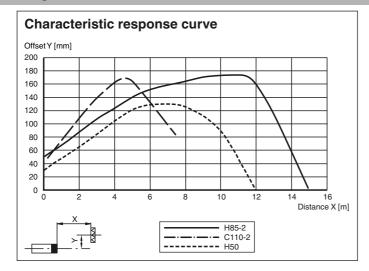
Mounting bracket for RL39 series Sen-

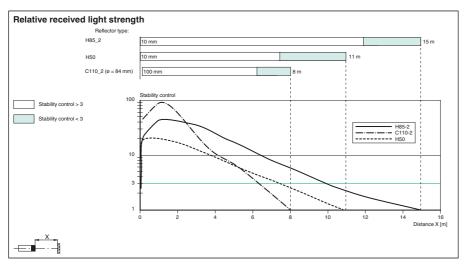
Other suitable accessories can be found at www.pepperl-fuchs.com

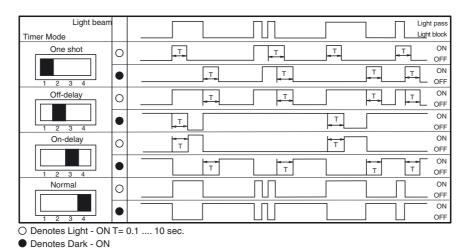
PEPPERL+FUCHS

Approvals

Curves/Diagrams







Additional Information

Conventional use:

The reflex light beam switch contains the emitter and receiver in a single housing. The light from transmitter is beamed back from a reflector to the receiver. If an object interrupts the light beam the switching function is initiated.

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 to prevent misalignment of the sensor.



Instructions for adjustment:

Connect the sensor to operating voltage, the LED green lights up constantly.

Mount suitable reflector opposite light beam switch and align roughly.

The exact adjustment takes by swivelling the sensor horizontally and vertically. With optimum light reception the yellow LED lights up constantly. In case of bad alignment, the red LED lights up.

Object detection check:

Move the object into the light beam. If the object is recorded, the yellow LED goes off. If it isn't going off, reduce the sensitivity with the potentiometer until it goes off. It should light up constantly again when the object is removed.

The red LED lights up 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 inter-