

Model Number

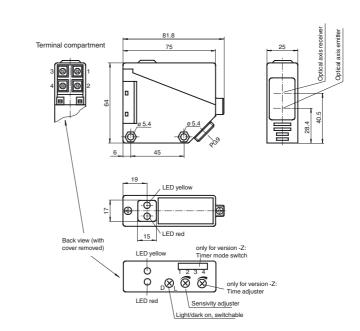
RLK39-55-Z/31/35/40a/116

Retroreflective sensor with terminal compartment

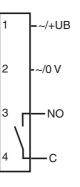
Features

- Visible red light •
- Light/dark ON, switchable •
- Timer function •
- Degree of protection IP67 •

Dimensions



Electrical connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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| Technical data | | |
|-----------------------------------|----------------|--|
| General specifications | | |
| Effective detection range | | 0 20 m |
| Reflector distance | | 0.1 20 m |
| Threshold detection range | | 25 m |
| Reference target | | H85 reflector |
| Light source | | LED red |
| Light type | | modulated visible red light |
| Polarization filter | | no |
| Ambient light limit | | 10000 Lux |
| Functional safety related parame | eters | |
| MTTF _d | | 803 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 |
| Control elements | | sensitivity adjustment |
| Control elements | | 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 | ≤ 55 mA |
| Power consumption | P ₀ | ≤ 3 VA |
| Time delay before availability | t _v | ≤ 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 | f | ≤ 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 | | |
| Ambient temperature | | -25 55 °C (-13 131 °F) |
| Storage temperature | | -40 70 °C (-40 158 °F) |
| Mechanical specifications | | |
| Degree of protection | | IP67 |
| Connection | | terminal compartment PG9, \leq 2.5 mm ² |
| Material | | |
| Housing | | PBT |
| Optical face | | PMMA |
| Mass | | 110 g |
| Compliance with standards and ves | directi | |
| Directive conformity | | EMC Directive 2004/108/EC |
| Standard conformity | | |
| Product standard | | EN 60947-5-2:2007 |
| | | IEC 60947-5-2:2007 |

Approvals and certificates

CCC approval Approvals Certified by China Compulsory Certification (CCC) CE

Accessories OMH-RL39

Mounting bracket for RL39 series Sensors

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

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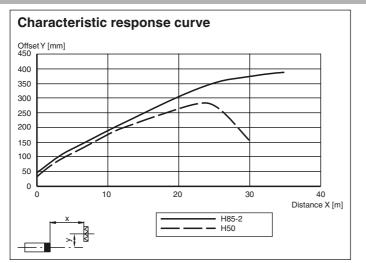
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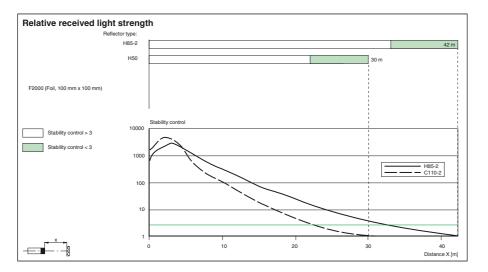
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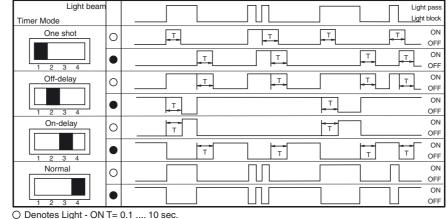
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Curves/Diagrams







Denotes Dark - ON

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.

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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 intervals.



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