

#### **Model Number**

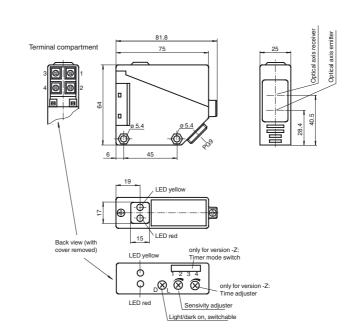
## RLK39-55/31/35/40a/116

Retroreflective sensor with terminal compartment

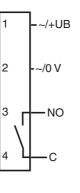
## **Features**

- Visible red light ٠
- Light/dark ON, switchable ٠
- Degree of protection IP67 •

# Dimensions



# **Electrical connection**



Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com



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
unctional safety related parar	neters	
MTTF <sub>d</sub>	licicity	1002 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0%
ndicators/operating means		0 /0
Function indicator		LED yellow: switching state
		LED yellow. switching state
Control elements		sensitivity adjustment
Control elements		Light/Dark switch
lectrical specifications		
Operating voltage	U <sub>B</sub>	12 240 V DC 24 240 V AC (50 60 Hz)
Ripple		10 %
No-load supply current	I <sub>0</sub>	≤ 55 mA
Power consumption	P <sub>0</sub>	≤ 3 VA
Time delay before availability	t <sub>v</sub>	$\leq$ 50 ms
Dutput		
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
standard conformity		
Standards		EN 60947-5-2
mbient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Storage temperature		-40 70 °C (-40 158 °F)
lechanical specifications		
Degree of protection		IP67
Connection		terminal compartment PG9, $\leq$ 2.5 mm <sup>2</sup>
Material		,
Housing		PBT
Optical face		PMMA
Mass		110 g
Compliance with standards an res	d direct	Ū.
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
A		
Approvals and certificates		
CCC approval		Certified by China Compulsory Certification (CC
Approvals		CE

Accessories OMH-RL39

Mounting bracket for RL39 series Sensors

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

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

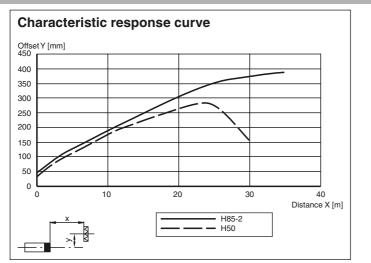
 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 G

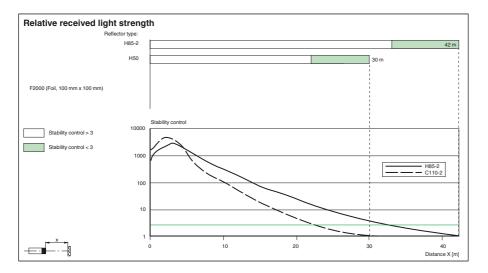
www.pepperl-fuchs.com

2



### **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 intervals.

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

