

#### **Model Number**

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

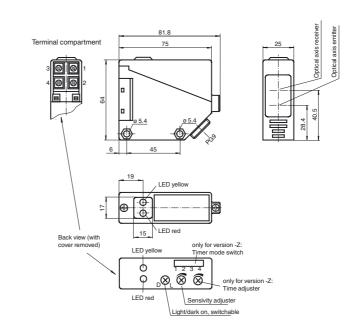
Retroreflective sensor with polarization filter

with terminal compartment

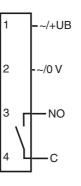
#### Features

- Glare protected with polarization filter
- · Visible red light
- Light/dark ON, switchable
- Protection degree IP67

Dimensions



## **Electrical connection**



Release date: 2010-08-04 15:26 Date of issue: 2011-07-14 088822\_eng.xml



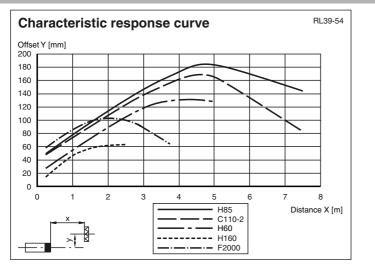
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Technical data		
General specifications		
Effective detection range		0 7 m
Reflector distance		0.1 7 m
Threshold detection range		9 m
Reference target		H85 reflector
Light source		LED red
Light type		modulated visible red light
Approvals		CE
Ambient light limit		10000 Lux
Indicators/operating means		
Function display		LED yellow: switching state LED red: pre-fault indication
Controls		sensitivity adjustment
Controls		Light/Dark switch
Electrical 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>	≤ 35 mA
Power consumption	P <sub>0</sub>	≤ 3 VA
Time delay before availability	t <sub>v</sub>	≤ 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
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		
Protection degree		IP67
Connection		terminal compartment PG9, $\leq 2.5 \text{ mm}^2$
Material		
Housing		PBT
Optical face		PMMA
Mass		110 g
Compliance with standards and ves	l directi	0
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Approvals and certificates		

CCC approval

Certified by China Compulsory Certification (CCC)

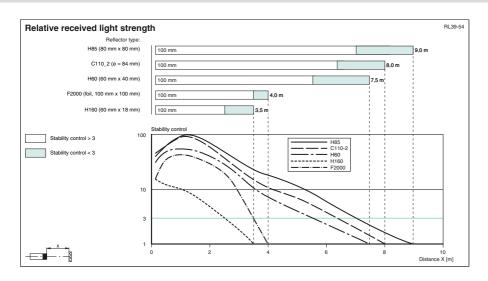
## **Curves/Diagrams**



Accessorie	S
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OMH-RL39 Mounting bracket for RL39 series Sensors





# 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.

