





# **Model Number**

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

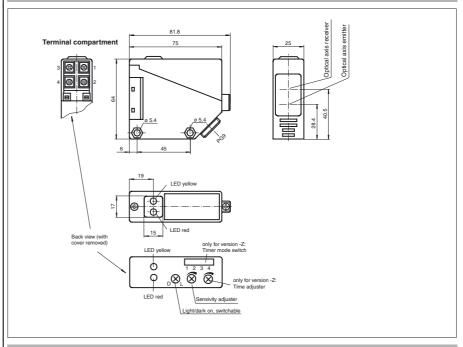
Retro-reflective sensor with polarization filter

with terminal compartment

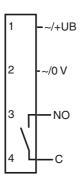
### **Features**

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

# **Dimensions**



# **Electrical connection**

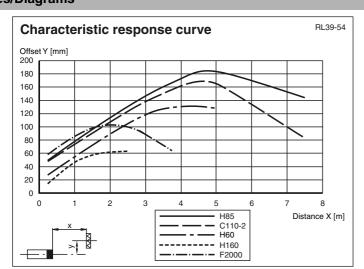


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#### **Technical data General specifications** Effective detection range 0 ... 7 m Reflector distance 0.1 ... 7 m Threshold detection range 9 m Reference target H85 reflector LED red Light source Light type modulated visible red light Approvals CE 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 Controls switch for timer function **Electrical specifications** Operating voltage 12 ... 240 V DC $\mathsf{U}_\mathsf{B}$ 24 ... 240 V AC (50 ... 60 Hz) 10 % Ripple No-load supply current $I_0$ ≤ 35 mA Power consumption < 3 VA $P_0$ Time delay before availability ≤ 50 ms Output light/dark switching Switching type 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 Ambient temperature -25 ... 55 °C (-13 ... 131 °F) Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** Protection degree IP67 terminal compartment PG9, ≤ 2.5 mm<sup>2</sup> Connection Material PRT Housing Optical face **PMMA** Mass 110 g Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC EN 60947-5-2 Approvals and certificates

# **Curves/Diagrams**

CCC approval



### **Accessories**

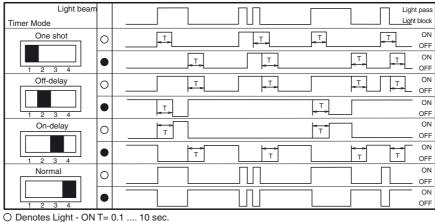
### OMH-RL39

Mounting bracket for RL39 series Sensors

> Date of issue: 2010-08-04 088823\_ENG.xml Release date: 2010-08-04 15:26

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Certified by China Compulsory Certification (CCC)



Denotes Light - ON I = 0.1.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.

### 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.

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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.