

Model Number

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

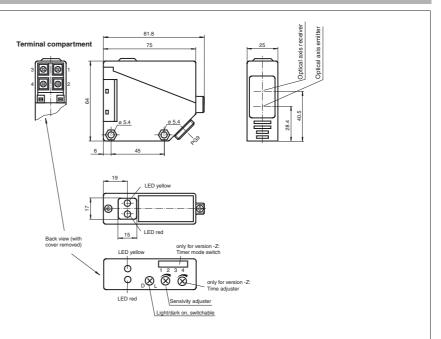
Retro-reflective sensor without polarization filter

with terminal compartment

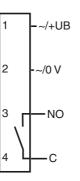
Features

- · Visible red light
- Light/dark ON, switchable
- Timer function
- Protection degree IP67

Dimensions



Electrical connection



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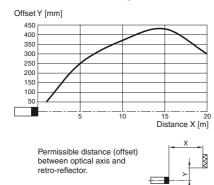


Mounting bracket for RL39 series Sen-

Technical data			Accessories
General specifications			OMH-BL39
Effective detection range		0 20 m	Mounting brack
Reflector distance		0.1 20 m	sors
Threshold detection range		25 m	3013
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	
Controls		switch for timer function	
Electrical specifications			
Operating voltage	UB	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 switching	
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			
Protection degree		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		EN 60947-5-2	
Approvals and certificates			
CCC approval		Certified by China Compulsory Certification (CCC)	

Curves/Diagrams

Characteristic response curve



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2

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Light beam			ΠΠ				nt pass It block	
Timer Mode					L			
One shot	0	T	Т	T		T	ON	
	Ľ						OFF	
		Г	Т		Т	Т	ON	
1 2 3 4		\			_⊢⊷_	*	OFF	
Off-delay	0	Т	Т		Т	Тт	ON	
	10	│	•_•		╞╧╼└	_ ┝┷┥	OFF	
				т			ON	
				╞┷╼Ĺ			OFF	
On-delay							ON	
	0	Т		Т			OFF	
	-						ON	
1 2 3 4		Т	Т		т	Т	OFF	
Normal							ON	
Normai	0						OFF	
							ON	
							OFF	
1 2 3 4				L			UFF	
○ Denotes Light - ON T= 0.1 10 sec.								

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.

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.

