

CE

Model Number

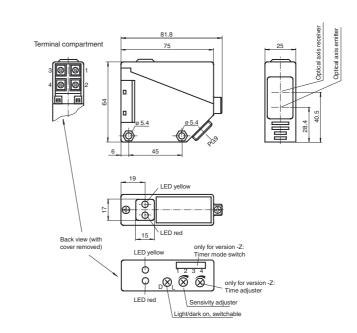
RLK39-54-Z/31/40a/116

Retroreflective sensor with terminal compartment

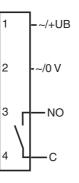
Features

- Glare protected with polarization filter ٠
- Visible red light •
- Light/dark ON, switchable •
- Timer function •
- Degree of protection IP67 •

Dimensions



Electrical connection



Release date: 2014-04-03 11:59 Date of issue: 2014-04-09 088823_eng.xml

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



Technical data				
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General specifications		0.7-		
Effective detection range		07m 01.7m		
Reflector distance		•••••		
Threshold detection range		9 m		
Reference target		H85 reflector		
Light source		LED red		
Light type		modulated visible red light		
Polarization filter		yes		
Ambient light limit		10000 Lux		
Functional safety related param	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	Control elements			
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	≤ 35 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 choi		
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)		
		-40 70 0 (-40 130 1)		
Mechanical specifications Degree of protection		1067		
Connection		IP67 terminal compartment PG9, $\leq 2.5 \text{ mm}^2$		
		terminal compartment PG9, ≤ 2.5 mm ⁻		
Material		PBT		
Housing				
Optical face		PMMA		
Mass		110 g		
Compliance with standards and ves	directi			
Directive conformity Standard conformity		EMC Directive 2004/108/EC		
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

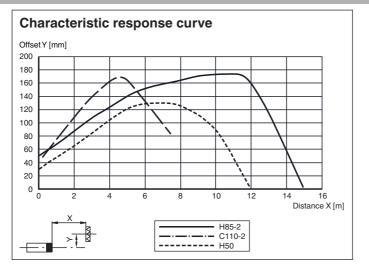
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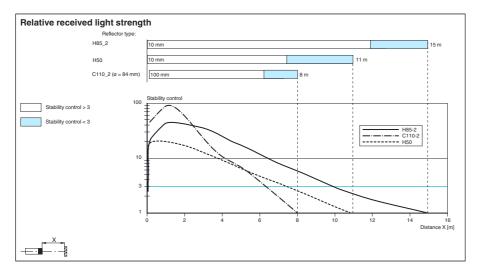
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Curves/Diagrams





Light beam Timer Mode			$\Box \Box$			Light pa
One shot	0					
	•		T		T	
Off-delay	0		- T-		,T	
	•	T		T		(0
On-delay	0	T		T		0
	ullet	T	T		T	T O
Normal	0					
	\bullet					

) Denotes Light - ON T= 0.1 10 s 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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