Retroreflective sensor





CE

Model Number

RL91-6-IR/25/38a/115

Retroreflective sensor with 5 m fixed cable

Features

- Retroreflective sensor for single-• beam closing edge protection
- Narrow housing suitable for small ٠ gaps
- Sturdy plastic housing •
- Various possibilities for mounting •
- Version with infrared light •
- Version for supply voltage of up to 30 • V DC
- Light on version

Product information

Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environment.

The single-beam photoelectric sensors of the 91 series are suitable for closing-edge monitoring for elevators, barriers and doors, as well as for object detection and object tracking in material handling systems.





Electrical connection



Indicators/operating means



1	Functional display	red
2	Optical axis Receiv	er
3	Optical axis Transmitter	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

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Technical data			Турі
General specifications			
Effective detection range		0 6 m	• CI
Reflector distance		0 6 m	ba
Threshold detection range		9 m	• De
Reference target		H85-2 reflector	ha
Light source		LED	
Light type		modulated infrared light	Dete
Diameter of the light spot		approx. 230 mm at a distance of 6000 mm	
Angle of divergence		approx. 2.5 °	·
Ambient light limit		90000 Lux	1
Functional safety related par	ameters		·
MTTF _d		1083.4 a	
Indicators/operating means			' I I I I I I I I I I I I I I I I I I I
Function indicator		LED red, flashes when falling short of the stability control	
Electrical specifications			1
Operating voltage	U _R	12 30 V DC / 18 28 V AC	
No-load supply current	-в I ₀	< 100 mA	
Output	0		
Switching type		light on	
Signal output		Weak current relay, 1 alternator	
Switching voltage		\leq 55 V AC / 24 V DC	
Switching current		1 A /24 V DC, 0.5 A /110 V AC	
Switching power		max. 24 W / 55 VA	1
Switching frequency	f	25 Hz	
Response time		20 ms	1
Conformity			
Product standard		EN 60947-5-2	A
Ambient conditions			Acc
Ambient temperature		-20 55 °C (-4 131 °F)	OWH
Storage temperature		-20 75 °C (-4 167 °F)	Mou
Mechanical specifications			
Degree of protection		IP65	Other
Connection		5 m fixed cable	www.
Material			
Housing		Luran®	
Optical face		Luran®	1
Mass		100 g	
Note		Safety fuse \leq 315 mA (slow-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.	
Approvals and certificates			
UL approval		cULus	1
		For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 55 V AC	
		CCC entry of / meridian net required for and use retail <20 V	11

CCC approval

Curves/Diagrams



Typical applications

- Closing-edge monitoring for elevators, barriers and industrial doors
- Detecting and tracking objects in material handling

Detection area



Accessories

OMH-91 Mounting bracket

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

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Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

CCC approval / marking not required for products rated \leq 36 V

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Operating principle

The retroreflective sensor contains the transmitter 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.