Retroreflective sensor



CE

Model Number

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

Retroreflective sensor with 5 m fixed cable

Features

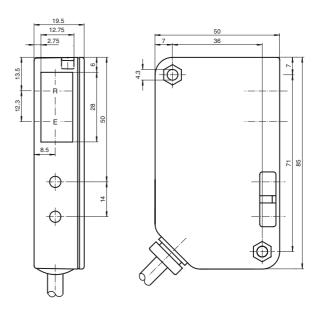
- Retroreflective sensor for single-٠ beam closing edge protection
- Narrow housing suitable for small ٠ gaps
- Sturdy plastic housing •
- Various possibilities for mounting •
- Version with infrared light .
- Version for supply voltage of up to 30 • V DC
- Light on version

Product information

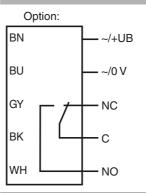
Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environment.

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.

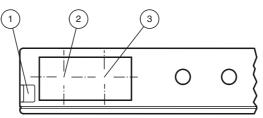
Dimensions



Electrical connection



Indicators/operating means



1	Functional display	red	
2	Optical axis Receiver		
3	Optical axis Transmitter		

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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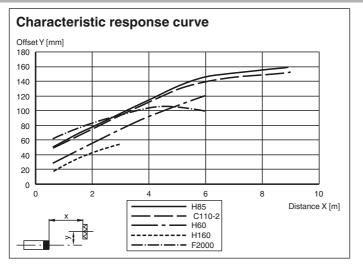
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Technical data			Typical applications	
General specifications			Closing-edge monitoring for elevators, bar-	
Effective detection range		0 6 m	 riers and industrial doors Detecting and tracking objects in material 	
Reflector distance		0 6 m		
Threshold detection range		9 m	handling	
Reference target		H85-2 reflector		
Light source		LED		
Light type		modulated infrared light	Detection area	
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		
Functional safety related paran	neters			
MTTF _d		1083.4 a		
Indicators/operating means				
Function indicator		LED red, flashes when falling short of the stability control		
Electrical specifications		, 3, ,	\sim	
Operating voltage	UB	12 30 V DC / 18 28 V AC		
No-load supply current	I ₀	< 100 mA		
Output	•0		Ú Ú	
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		
•		max. 24 W / 55 VA		
Switching power	f	25 Hz		
Switching frequency	1	20 ms		
Response time		201115		
Ambient conditions				
Ambient temperature		-20 55 °C (-4 131 °F)	Accessories	
Storage temperature		-20 75 °C (-4 167 °F)	OMH-91	
Mechanical specifications				
Degree of protection		IP65	Mounting bracket	
Connection		5 m fixed cable	Other suitable accessories can be found a	
Material			www.pepperl-fuchs.com	
Housing		Luran®		
Optical face		Luran®		
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.		
Compliance with standards and ves	d direct			
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
Approvals and certificates				
UL approval		cULus		
		For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 55 V AC		
CCC approval		CCC approval / marking not required for products rated ≤36 V		

Curves/Diagrams



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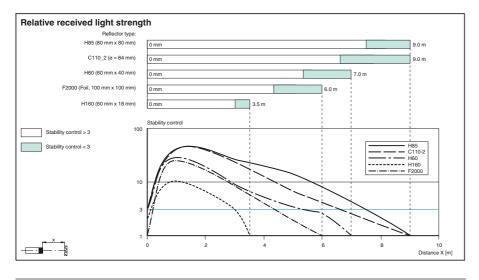
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Operating principle

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.

