Retroreflective sensor

35





CE

Model Number

RL91-6-IR/25/49/115

Retroreflective sensor with 5 m fixed cable

Features

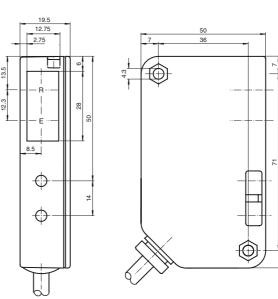
- Retroreflective sensor for single-• beam closing edge protection
- Narrow housing suitable for small ٠ gaps
- Sturdy plastic housing •
- Various possibilities for mounting •
- Version with infrared light .
- Version for supply voltage of up to 30 • V DC
- Light on version

Product information

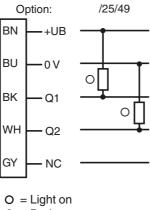
Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environment.

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.



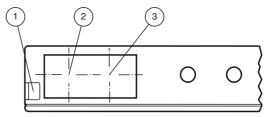


Electrical connection



= Dark on

Indicators/operating means



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

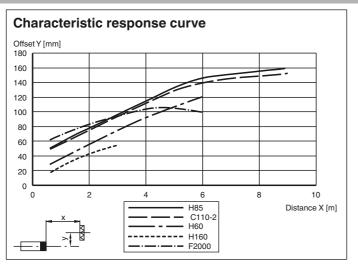
Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

⁵ PEPPERL+FUCHS 1

Technical data			Typical applications	
General specifications			Closing adda manitaring for alevators	
Effective detection range		0 6 m	 Closing-edge monitoring for elevators, barriers and industrial doors Detecting and tracking objects in materia handling 	
Reflector distance		0 6 m		
Threshold detection range		9 m		
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 participation of the second se	rameters			
MTTF _d		1083.4 a		
Indicators/operating means				
Function indicator		LED red, flashes when falling short of the stability control		
Electrical specifications			\sim	
Operating voltage	U _B	12 30 V DC		
No-load supply current	-в I ₀	< 100 mA		
Output	-0			
Switching type		light on		
Signal output		1 NPN, 1 PNP synchronized-switching, short-circuit protected, reverse polarity protected	-	
Switching voltage		max. 30 V DC		
Switching current		200 mA		
Switching frequency	f	25 Hz		
Response time		20 ms		
Conformity		20.00		
Product standard		EN 60947-5-2		
Ambient conditions		EN 00347-5-2	Accessories	
			OMH-91	
Ambient temperature		-20 55 °C (-4 131 °F)		
Storage temperature		-20 75 °C (-4 167 °F)	Mounting bracket	
Mechanical specifications		IDan	Other suitable accessories can be found at	
Degree of protection		IP65	www.pepperl-fuchs.com	
Connection		5 m fixed cable		
Material		, R		
Housing		Luran® Luran®		
Optical face				
Mass		100 g		
Approvals and certificates				
UL approval		cULus		
		For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 30 V DC		
CCC approval		CCC approval / marking not required for products rated ≤36 V		

Curves/Diagrams

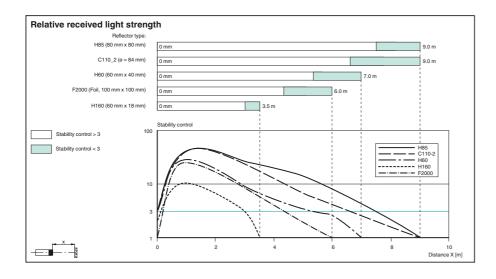


Release date: 2019-12-18 11:34 Date of issue: 2019-12-18 419062_eng.xml

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

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 G

2



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.

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