Retroreflective sensor



CE

Model Number

RL91-6-IR/38a/59/115

Retroreflective sensor with 5 m fixed cable

Features

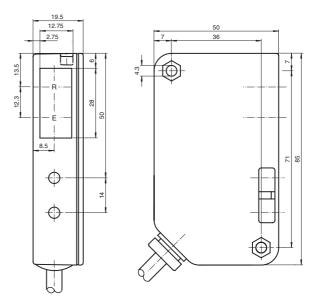
- Retroreflective sensor for single-٠ beam closing edge protection
- Narrow housing suitable for small ٠ gaps
- Sturdy plastic housing •
- Various possibilities for mounting •
- Version with infrared light .
- Version for supply voltage of up to 30 • V DC
- Dark on version

Product information

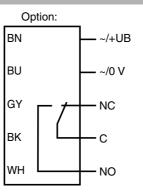
Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environment.

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.

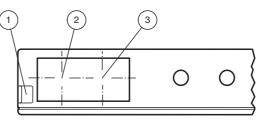




Electrical connection



Indicators/operating means



1	Functional display	red	
2	Optical axis Receiv	er	
3	Optical axis Transm	nitter	

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

fa-info@us.pepperl-fuchs.com

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

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



Technical data			Typical applications		
General specifications			Closing-edge monitoring for elevators, bar		
Effective detection range		0 6 m	riers and industrial doors		
Reflector distance		0 6 m			
Threshold detection range		9 m	Detecting and tracking objects in material 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 par MTTF _d	ameters	1083.4 a			
Indicators/operating means					
Function indicator		LED red, flashes when falling short of the stability control			
Electrical specifications					
Operating voltage	U _B	12 30 V DC / 18 28 V AC			
No-load supply current	Ι _ο	< 100 mA			
Output					
Switching type		dark on			
Signal output		Weak current relay, 1 alternator			
Switching voltage Switching current Switching power		≤ 55 V AC / 24 V DC			
		1 A /24 V DC, 0.5 A /110 V AC			
		max. 24 W / 55 VA			
Switching frequency	f	25 Hz			
Response time		20 ms			
Ambient conditions					
Ambient temperature		-20 55 °C (-4 131 °F)	Accessories		
Storage temperature		-20 75 °C (-4 167 °F)			
Mechanical specifications			OMH-91		
Degree of protection		IP65	Mounting bracket		
Connection		5 m fixed cable			
Material Other suitable accessories can					
Housing		Luran	www.pepperl-fuchs.com		
Optical face		Luran			
Mass		100 g			
Note		Safety fuse ≤ 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 a ves	and direct				
Standard conformity Product standard		EN 60947-5-2:2007			
		IEC 60947-5-2:2007			
Approvals and certificates					
UL approval		cULus			
CCC approval		CCC approval / marking not required for products rated ≤36 V			
Curves/Diagrams					

RL(K)91-6 Characteristic response curve Offset Y [mm] 180 160 140 120 100 80 60 40 20 0 0 2 4 6 8 10 H85 Distance X [m] C110-2 H60 ------ H160 ------ F2000

Release date: 2015-02-05 10:18 Date of issue: 2015-02-05 419057_eng.xml

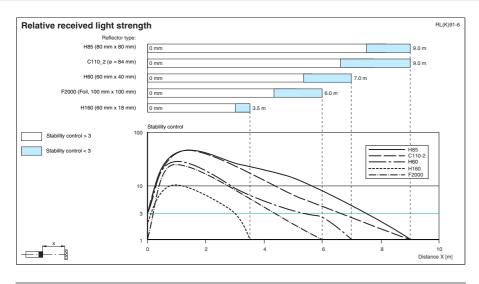
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

2

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

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





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.

