







Model Number

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

Retroreflective sensor with 5 m fixed cable

Features

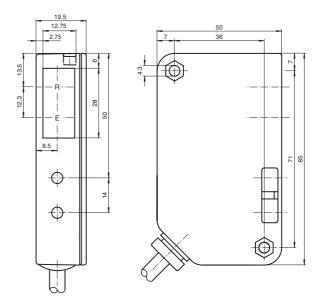
- Retroreflective sensor for singlebeam closing edge protection
- Narrow housing suitable for small gaps
- Sturdy plastic housing
- Various possibilities for mounting
- Version with infrared light
- Version for supply voltage of up to 30 V DC
- Light on version

Product information

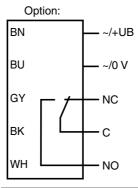
Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environment.

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.

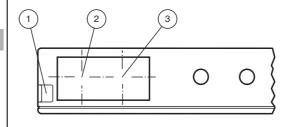
Dimensions



Electrical connection



Indicators/operating means



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

Technical data General specifications Effective detection range 0 ... 6 m Reflector distance 0 ... 6 m Threshold detection range 9 m Reference target H85-2 reflector LFD Light source Light type modulated infrared light approx. 230 mm at a distance of 6000 mm Diameter of the light spot approx. 2.5 Angle of divergence Ambient light limit 90000 Lux Functional safety related parameters 1083.4 a $MTTF_d$ Indicators/operating means Function indicator LED red, flashes when falling short of the stability control **Electrical specifications** Operating voltage 12 ... 30 V DC / 18 ... 28 V AC U_B No-load supply current < 100 mA I_0 Output light on Switching type Weak current relay, 1 alternator Signal output $\leq 55~V~AC~/~24~V~DC$ Switching voltage Switching current 1 A /24 V DC, 0.5 A /110 V AC Switching power max. 24 W / 55 VA Switching frequency 25 Hz Response time 20 ms **Ambient conditions** -20 ... 55 °C (-4 ... 131 °F) Ambient temperature Storage temperature -20 ... 75 °C (-4 ... 167 °F) **Mechanical specifications** IP65 Degree of protection Connection 5 m fixed cable Material Housing Luran Optical face Luran 100 g Mass 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 and directives

Standard conformity

EN 60947-5-2:2007 Product standard

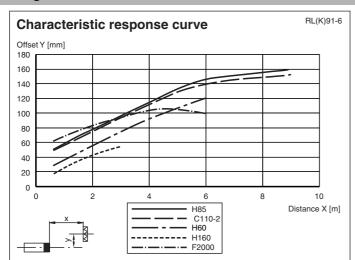
IEC 60947-5-2:2007

Approvals and certificates

UL approval cUI us

CCC approval / marking not required for products rated ≤36 V 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 www.pepperl-fuchs.com

PEPPERL+FUCHS

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.