









Model Number

RLK91-6-IR/25/31/115

Retroreflective sensor with 5 m fixed cable

Features

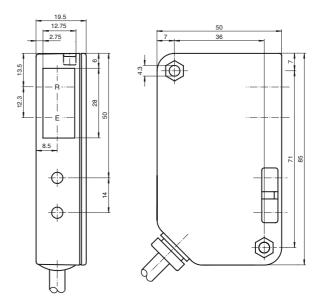
- Retroreflective sensor for singlebeam closing edge protection
- Narrow housing suitable for small gaps
- Sturdy plastic housing
- Various possibilities for mounting
- Version with infrared light
- Version with AC/DC power supply

Product information

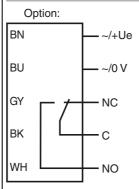
Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environ-

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.

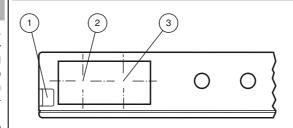
Dimensions



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 0 ... 6 m Reflector distance 9 m Threshold detection range H85-2 reflector Reference target LFD Light source Light type modulated infrared light Diameter of the light spot approx. 230 mm at a distance of 6000 mm 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** Rated operating voltage U_e 96 ... 240 V AC Power consumption P_0 12 VA according to UL 508 1/8 HP, 1.9 FLA, 240 V AC, Pilot Duty Code D150 6,000 1.5 FLA, 120 V AC, Pilot Duty 30,000 0.8 FLA, 240 V AC, Pilot Duty 30,000 Contact ratings Output Switching type light on Signal output Weak current relay, 1 alternator Switching voltage max. 240 V AC Switching current 2.5 A / 240 V AC Switching power max. 120 W / 600 VA Switching frequency 25 Hz f Response time 20 ms **Ambient conditions** Ambient temperature -20 ... 55 °C (-4 ... 131 °F) Storage temperature -20 ... 75 °C (-4 ... 167 °F) **Mechanical specifications** IP65 Degree of protection Connection 5 m fixed cable Material Housing Luran® Luran® Optical face 100 g Mass

Compliance with standards and directi-

ves

Standard conformity

Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

EAC conformity TR CU 020/2011 TR CU 004/2011

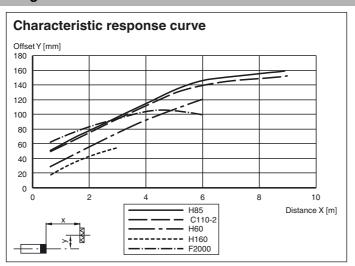
UL approval cULus Listed

For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 240 V AC $\,$

C :: II OI: O

CCC approval Certified by China Compulsory Certification (CCC)

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

REF-H50

Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap

REF-H60-2

Reflector with mounting holes

REF-H85-2

Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

REF-H160

Reflector, rectangular 60 mm x 18 mm, mounting holes

REF-H180

Reflector, rectangular 180 mm x 40 mm, mounting holes

REF-C110-2

Reflector, round ø 84 mm, central mounting hole

OFR-100/100

Reflective tape 100 mm x 100 mm

Reflector Weather Cap

Weather hood for series reflector

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

PEPPERL+FUCHS

Release date: 2017-02-27 16:22 Date of issue: 2017-02-27 419076_eng.xml

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.