Retroreflective sensor

EAE CE

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Model Number

RLK91-6-IR/25/31/115

Retroreflective sensor with 5 m fixed cable

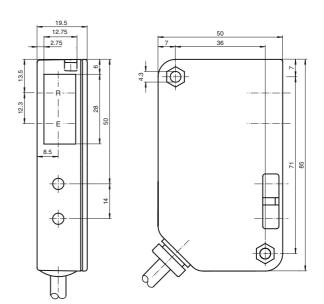
Features

- 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 with AC/DC power supply •

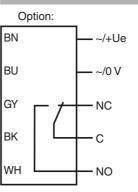
Product information

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 environment.

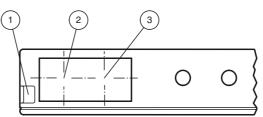
The single-beam photoelectric sensors of the 91 series are suitable for closing-edge monitoring for elevators, barriers and doors, as well as for object detection and object tracking in material handling systems.



Electrical connection



Indicators/operating means



2 Optical axis Receiver	1	Functional display	red
3 Ontical axis Transmitter	2	Optical axis Receiver	
o optical axis fransmitter	3	Optical axis Transmitter	

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 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com ⁵ PEPPERL+FUCHS 1

Retroreflective sensor

Technical data

General specifications Effective detection range 0...6m 0...6 m Reflector distance 9 m Threshold detection range H85-2 reflector Reference target I FD 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 25 Hz Switching frequency f Response time 20 ms Conformity

Product standard Ambient conditions Ambient temperature Storage temperature

Mechanical specifications Degree of protection

Connection Material Housing Optical face Mass

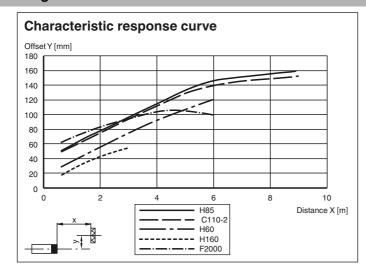
Approvals and certificates EAC conformity

UL approval

CCC approval

TR CU 020/2011 TR CU 004/2011 cULus Listed For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 240 V AC Certified by China Compulsory Certification (CCC)

Curves/Diagrams



EN 60947-5-2

IP65 5 m fixed cable

Luran®

Luran®

100 g

-20 ... 55 °C (-4 ... 131 °F)

-20 ... 75 °C (-4 ... 167 °F)

Typical applications

- Closing-edge monitoring for elevators, barriers and industrial doors
- Detecting and tracking objects in material handling

Detection area

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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

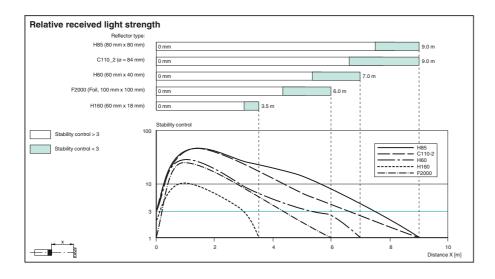
OFR-100/100 Reflective tape 100 mm x 100 mm

Reflector Weather Cap Weather hood for series reflector

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

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