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Model Number

RLK91-54-RT/31/59/115

Retroreflective sensor with 5 m fixed cable

Features

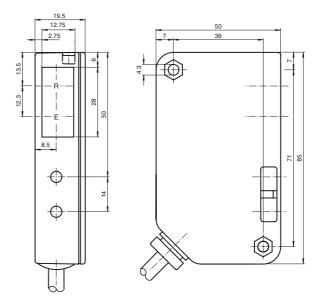
- Retroreflective sensor for singlebeam closing edge protection
- Narrow housing suitable for small gaps
- Sturdy plastic housing
- Various possibilities for mounting
- Version with red light
- Version with AC/DC power supply

Product information

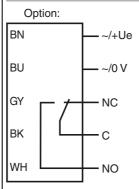
Concentration on the essentials is the hallmark of the 91 series. As ac/dc supply devices, these economical, reliable and easy-to-use photoelectric sensors can be used almost universally. Their narrow design means that they can be used in any environ-

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.

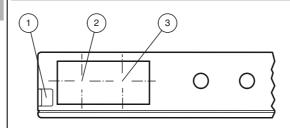
Dimensions



Electrical connection



Indicators/operating means



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

Technical data

General specifications

Effective detection range 0.2 ... 4000 mm Reflector distance Threshold detection range 8 m H85-2 reflector Reference target

LFD Light source

Light type modulated visible red light

Diameter of the light spot approx. 160 mm at a distance of 4000 mm

0 ... 4 m

Angle of divergence approx. 2.5 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

U_e Rated operating voltage 96 ... 240 V AC Power consumption P_0 12 VA

Contact ratings

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

Output

Switching type dark 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

Ambient conditions Ambient temperature

-20 ... 55 °C (-4 ... 131 °F) Storage temperature -20 ... 75 °C (-4 ... 167 °F)

Mechanical specifications

Degree of protection IP65 Connection 5 m fixed cable

Material

Housing Luran® Optical face glass pane 100 g Mass

Compliance with standards and directi-

ves

Standard conformity

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

Approvals and certificates

TR CU 020/2011 FAC conformity TR CU 004/2011

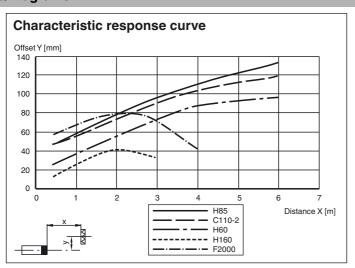
UL approval

For overcurrent protection, install a fuse with a rated current of

max. 5 A and min. 240 V AC

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

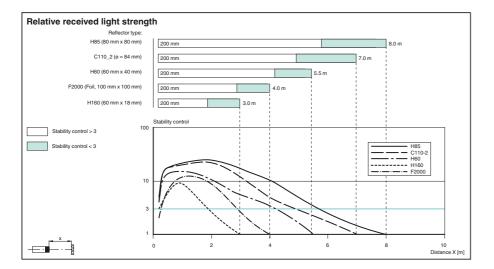
Reflective tape 100 mm x 100 mm

Reflector Weather Cap

Weather hood for series reflector

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

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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.