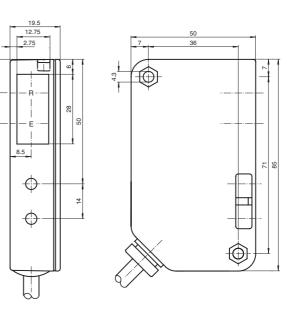
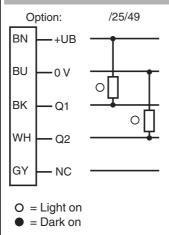
Dimensions

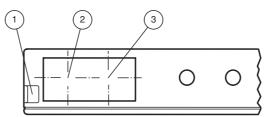


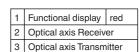
Electrical connection

12.3



Indicators/operating means







Model Number

CE

RL91-54-RT/25/49/115

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 red light •
- Version for supply voltage of up to 30 • V DC

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.

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Pepperl+Fuchs Group

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 www.pepperl-fuchs.com 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		
General specifications		
Effective detection range		0 4 m
Reflector distance		0.2 4000 mm
Threshold detection range		8 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light
Diameter of the light spot		approx. 160 mm at a distance of 4000 mm
Angle of divergence		approx. 2.5 °
Ambient light limit		90000 Lux
Functional safety related para	ameters	
MTTF _d		1083.4 a
Indicators/operating means		
Function indicator		LED red, flashes when falling short of the stability control
Electrical specifications		
Operating voltage	UB	12 30 V DC
No-load supply current	I ₀	< 100 mA
Output		
Switching type		light on
Signal output		1 NPN, 1 PNP synchronized-switching, short-circuit protected, reverse polarity protected
Switching voltage		max. 30 V DC
Switching current		200 mA
Switching frequency	f	25 Hz
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
Mass		100 g
Compliance with standards a ves	ind direct	j-
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		
Characterist	lic resp	Donse curve RL(K)91-54

Characteristic response curve Offset Y [mm] 140 120 100 80 60 40 20 0 0 2 3 4 5 6 H85 Distance X [m]

----- F2000

Typical applications

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

Detection area



Accessories

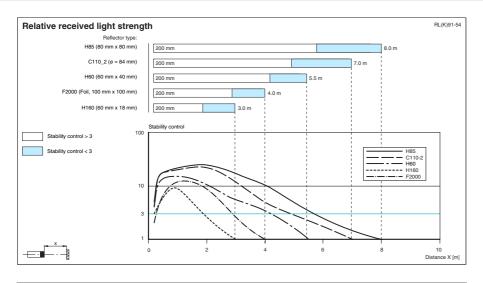
OMH-91

Mounting bracket

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

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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.

