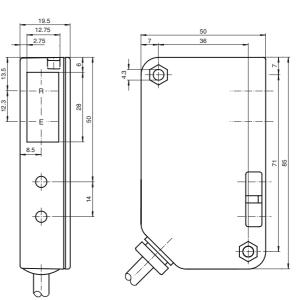
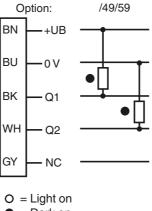


# **Dimensions**

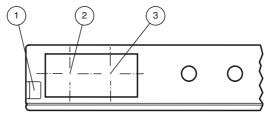


#### **Electrical connection**





#### Indicators/operating means



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



## **Model Number**

#### RL91-54-RT/49/59/115

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
- Dark 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.

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

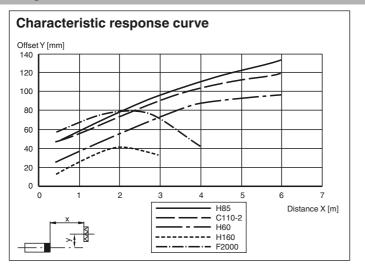
Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com

<sup>5</sup> PEPPERL+FUCHS 1

Technical data			Typical application
General specifications			
Effective detection range		0 4 m	<ul> <li>Closing-edge monitoring barriers and industrial</li> <li>Detecting and tracking</li> </ul>
Reflector distance		0.2 4000 mm	
Threshold detection range		8 m	
Reference target		H85-2 reflector	handling
Light source		LED	
Light type		modulated visible red light	Detection area
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 pa	rameters		
MTTFd		1083.4 a	
Indicators/operating means			
Function indicator		LED red, flashes when falling short of the stability control	
Electrical specifications			
Operating voltage	U <sub>B</sub>	12 30 V DC	
No-load supply current	In	< 100 mA	
Output	U		
Switching type		dark on	
Signal output		1 NPN, 1 PNP synchronized-switching, short-circuit protected,	
eignal calpat		reverse polarity protected	
Switching voltage		max. 30 V DC	
Switching current		200 mA	
Switching frequency	f	25 Hz	
Response time		20 ms	
Conformity			
Product standard		EN 60947-5-2	•
Ambient conditions			Accessories
Ambient temperature		-20 55 °C (-4 131 °F)	OMH-91
Storage temperature		-20 75 °C (-4 167 °F)	Mounting bracket
Mechanical specifications			
Degree of protection		IP65	Other suitable accessorie
Connection		5 m fixed cable	www.pepperl-fuchs.com
Material			
Housing		Luran <sup>®</sup>	
Optical face		glass pane	
Mass		100 g	
		J.	
Approvals and certificates			
UL approval		cULus For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 30 V DC	
CCC approval		CCC approval / marking not required for products rated $\leq$ 36 V	

# **Curves/Diagrams**



ns

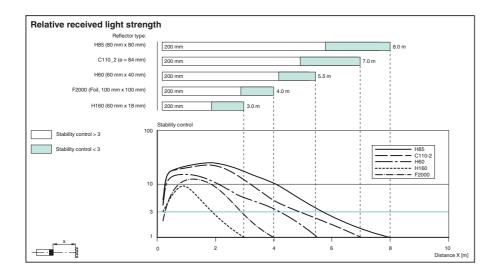
- ring for elevators, al doors
- ng objects in material



es can be found at

2

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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.

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