



#### **Model Number**

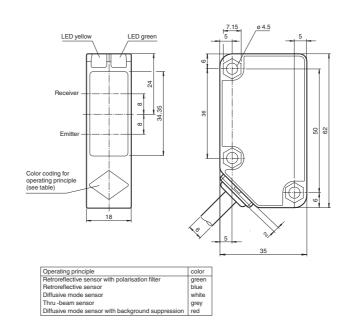
#### RLK31-54/25/31/115

Retroreflective sensor with 2 m fixed cable

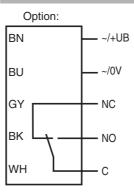
### **Features**

- ٠ Cost-optimized series for standard tasks
- Large construction with small housing ٠
- Version for universal voltages •
- Relay output •

### **Dimensions**



## **Electrical connection**





Technical data			Accessories
General specifications			OMH-RL31-01
Effective detection range		0 9000 mm	Mounting bracket
Reflector distance		20 9000 mm	Mounting bracket
Threshold detection range		12 m	OMH-RL31-02 Mounting bracket narrow
Reference target		reflector C110-2	
Light source		LED	-
Light type		modulated visible red light , 630 nm	OMH-RL31-03
Polarization filter		yes	Mounting bracket narrow
Diameter of the light spot		approx. 200 mm at a distance of 6 m	OMH-RL31-04
Angle of divergence		3°	Mounting aid for round steel ø 12 mm or
Ambient light limit		50000 Lux	
Functional safety related parameters			sheet 1.5 mm 3 mm
MTTF <sub>d</sub>		790 a	OMH-RL31-05 Mounting bracket with M10 threaded rod
Mission Time (T <sub>M</sub> )		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			OMH-RL31-06
Operation indicator		LED green: power on	Stainless steel mounting bracket with ad- justable half clamp on the side Suitable reflectors and cable sockets can be found in the Internet
Function indicator		LED yellow: 1. LED lit constantly: signal > 2 x switching point (function	
		reserve) 2. LED flashes: signal between 1 x switching point and 2 x swit-	
		ching point 3. LED off: signal < switching point	
Electrical specifications			
Operating voltage	UB	24 240 V AC 12 240 V DC	
No-load supply current	I <sub>0</sub>	≤ 40 mA	
Power consumption	P <sub>0</sub>	≤ 2 VA	
Output			
Switching type		light on	
Signal output		Relay, 1 alternator	
Switching voltage		max. 240 V AC	
Switching current		max. 3 A	
Switching power		DC: max. 150 W AC: max. 750 VA	
Switching frequency	f	20 Hz	
Response time		≤ 25 ms	
Ambient conditions			
Ambient temperature		-25 55 °C (-13 131 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Degree of protection		IP67	
Connection		2 m fixed cable	
Material			
Housing		Polycarbonate	
Optical face		PMMA	
Mass		154 g	
Compliance with standards and ves	d directi		
Directive conformity		EMC Directive 2004/108/EC	
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Standards		EN 62103	
Approvals and certificates			
Protection class		II, rated voltage $\leq$ 250 V AC with pollution degree 1-2 accor-	
		ding to IEC 60664-1 Output circuit basis insulation of input cir- cuit according to EN 50178, rated insulation voltage 240 V AC	
CCC approval		Certified by China Compulsory Certification (CCC)	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 Pepperl+Fuchs Group

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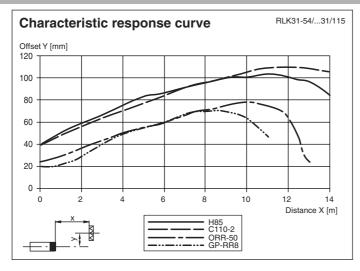
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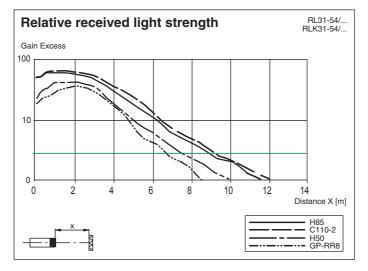
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# **Curves/Diagrams**





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