### Dimensions



#### **Model Number**

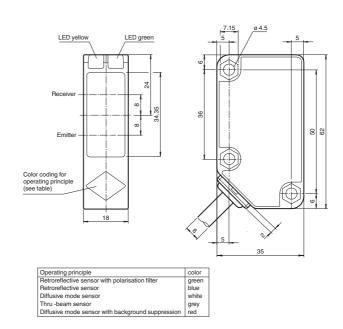
### RLK31-54/25/31/115

Retroreflective sensor with 2 m fixed cable

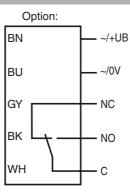
#### **Features**

CE

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



#### **Electrical connection**



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Technical data			Accessories
General specifications			OMH-RL31-01
Effective detection range		0 9000 mm	Mounting bracket
Reflector distance		20 9000 mm	_
Threshold detection range		12 m	OMH-RL31-02
Reference target		reflector C110-2	Mounting bracket narrow
Light source		LED	OMH-RL31-03
Light type		modulated visible red light , 630 nm	
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 Ambient light limit		3 ° 50000 Lux	Mounting aid for round steel ø 12 mm or
•		50000 Lux	sheet 1.5 mm 3 mm
Functional safety related parameters			Sheet 1.5 min 6 min
MTTF <sub>d</sub>		790 a 20 a	OMH-RL31-05 Mounting bracket for mounting on flat surfaces with 2 M4 screws
Mission Time (T <sub>M</sub> ) Diagnostic Coverage (DC)		0%	
		0 %	
Indicators/operating means Operation indicator			
Function indicator		LED green: power on LED yellow:	OMH-RL31-06 Stainless steel mounting bracket with adjustable half clamp on the side
Function indicator		<ol> <li>LED yellow.</li> <li>LED lit constantly: signal &gt; 2 x switching point (function reserve)</li> <li>LED flashes: signal between 1 x switching point and 2 x</li> </ol>	
		switching point 3. LED off: signal < switching point	Suitable reflectors and cable sockets can be found in the Internet
Electrical specifications			
Operating voltage	U <sub>B</sub>	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	
Conformity			
Product standard		EN 60947-5-2	
Ambient conditions			
Ambient temperature		-25 55 °C (-13 131 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Housing width		18 mm	
Housing height		62 mm	
Housing depth		35 mm	
Degree of protection		IP67	
Connection		2 m fixed cable	
Material		Debugghersete	
Housing		Polycarbonate	
Optical face Mass		PMMA	
Mass		154 g	
Approvals and certificates			
EAC conformity		TR CU 020/2011 TR CU 004/2011	
Protection class		II, rated voltage $\leq$ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit basis insulation of input circuit 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" Pepperl+Fuchs Group USA: +1 330 486 0001

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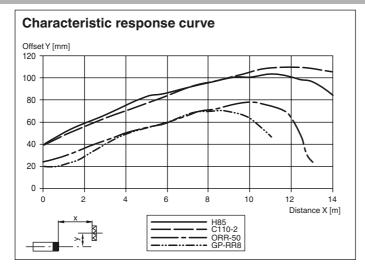
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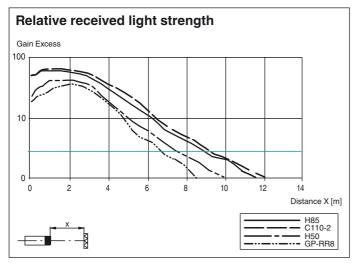
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# **EPPPERL+FUCHS**

## **Curves/Diagrams**





Release date: 2020-01-20 02:34 Date of issue: 2020-01-20 183065\_eng.xml

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