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# **Model Number**

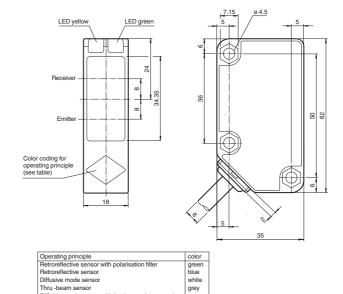
### RLK31-54/25/31/33/115-5M

Retroreflective sensor with 5 m fixed cable

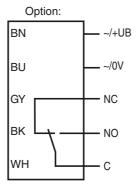
### **Features**

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

# **Dimensions**



# **Electrical connection**





Technical data		
General specifications		
Effective detection range		0 9000 mm
Reflector distance		20 9000 mm
Threshold detection range		12 m
Reference target		reflector C110-2
Light source		LED
Light type		modulated visible red light, 630 nm
Polarization filter		yes
Diameter of the light spot		approx. 200 mm at a distance of 6 m
Angle of divergence		3°
Ambient light limit		50000 Lux
Functional safety related para	ameters	
MTTF <sub>d</sub>		790 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: power on
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
		switching point
		3. LED off: signal < switching point
Electrical specifications		24 242442
Operating voltage	$U_B$	24 240 V AC 12 240 V DC
No-load supply current	Io	≤ 40 mA
Power consumption	P <sub>0</sub>	≤ 2 VA
Output	. 0	22 471
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		5 m fixed cable
Material		
Housing		Polycarbonate
Optical face		PMMA
Mass		154 g
A		
Approvals and certificates		TD 011 000/0044
EAC conformity		TR CU 020/2011 TR CU 004/2011
Protection class		II , rated voltage ≤ 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

### Accessories

### OMH-RL31-01

Mounting bracket

### OMH-RL31-02

Mounting bracket narrow

### OMH-RL31-03

Mounting bracket narrow

#### OMH-RL31-04

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

### OMH-RL31-05

Mounting bracket for mounting on flat surfaces with 2 M4 screws

#### OMH-RL31-06

Stainless steel mounting bracket with adjustable half clamp on the side

Suitable reflectors and cable sockets can be found in the Internet

**FPEPPERL+FUCHS** 

CCC approval

Certified by China Compulsory Certification (CCC)

# **Curves/Diagrams**

