





 ϵ







Model Number

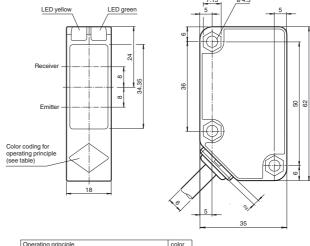
RLK31-54/31/33/115

Retroreflective sensor with 6 m fixed cable

Features

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

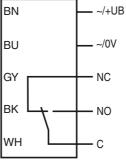
Dimensions



Operating principle	color
Retroreflective sensor with polarisation filter	green
Retroreflective sensor	blue
Diffusive mode sensor	white
Thru -beam sensor	grey
Diffusive mode sensor with background suppression	red

Electrical connection





Technical data General specifications Effective detection range 0 ... 9000 mm 20 ... 9000 mm Reflector distance Threshold detection range 12 m reflector C110-2 Reference target LFD Light source Light type modulated visible red light, 630 nm Polarization filter Diameter of the light spot approx. 200 mm at a distance of 6 m Angle of divergence Ambient light limit 50000 Lux Functional safety related parameters 790 a $MTTF_d$ Mission Time (T_M) 20 a Diagnostic Coverage (DC) Indicators/operating means Operation indicator LED green: power on Function indicator LED yellow: 1. LED lit constantly: signal > 2 x switching point (function 2. LED flashes: signal between 1 x switching point and 2 x switching point 3. LED off: signal < switching point **Electrical specifications** 24 ... 240 V AC 12 ... 240 V DC Operating voltage U_{B} No-load supply current ≤ 40 mA I_0 \leq 2 VA Power consumption P_0 Output Switching type dark on Signal output Relay, 1 alternator Switching voltage max. 250 V AC/DC Switching current max. 3 A DC: max. 150 W AC: max. 750 VA Switching power Switching frequency 20 Hz f Response time ≤ 25 ms **Ambient conditions** Ambient temperature -25 ... 55 °C (-13 ... 131 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications IP67 Degree of protection Connection 6 m fixed cable Material Housing Polycarbonate Optical face **PMMA** Mass 154 g Compliance with standards and directives EMC Directive 2004/108/EC Directive conformity Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Standards EN 62103 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)

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 with M10 threaded rod

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

PEPPERL+FUCHS

2

Curves/Diagrams

