









Model Number

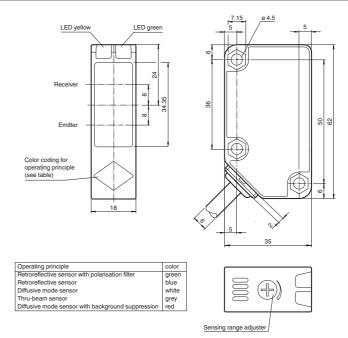
RLK31-8-2500-IR/31/115

Diffuse mode sensor with 2 m fixed cable

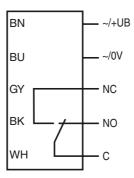
Features

- Operating voltage AC / DC
- Highly visible LED
- Relay output, 1 potential free alterna-
- Compact and stable housing
- Protection class II

Dimensions



Electrical connection



Technical data General specifications 0 ... 2500 mm adjustable Detection range Reference target standard white 200 mm x 200 mm IRFD Light source modulated infrared light, 850 nm Light type Polarization filter Diameter of the light spot approx. 50 mm at a distance of 2.5 m Angle of divergence Ambient light limit 50000 Lux; according EN 60947-5-2 Functional safety related parameters MTTF_d 790 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Operation indicator LED green: power on Function indicator LED yellow, lights up with receiver lit Control elements Detection range adjuster **Electrical specifications** 24 ... 240 V AC Operating voltage U_{B} 12 ... 240 V DC No-load supply current ≤ 40 mA I_0 Power consumption P_0 \leq 2 VA Output Switching type light on Signal output Relay, 1 alternator Switching voltage max. 240 V AC/DC Switching current max. 3 A Switching power DC: max. 150 W AC: max. 750 VA Switching frequency < 20 Hz Response time ≤ 25 ms **Ambient conditions** Ambient temperature -25 ... 55 °C (-13 ... 131 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Degree of protection IP67 2 m fixed cable , 5-wire Connection Material Housina Polycarbonate Optical face **PMMA** Mass 155 g

Compliance with standards and directi-

ves

Standard conformity

Product standard

EN 60947-5-2:2007 IEC 60947-5-2:2007

Standards EN 62103

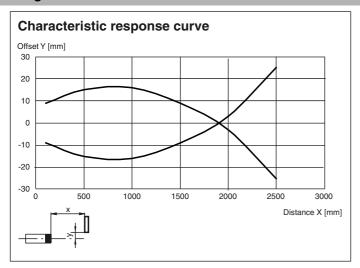
Approvals and certificates

Protection class

II , rated voltage ≤ 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)

Curves/Diagrams



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

Additional accessories can be found in the Internet.

