









Model Number

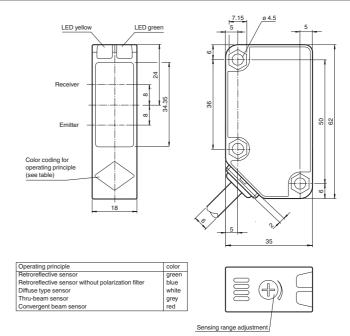
RLK31-8-2500-IR/31/115

Diffuse mode sensor with 2 m fixed cable

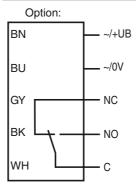
Features

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

Dimensions



Electrical connection



Technical data

| General | specifications |
|---------|----------------|
| Detect | tion range |

0 ... 2500 mm adjustable 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

 P_0 Power consumption \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

-25 ... 55 °C (-13 ... 131 °F) Ambient temperature -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** 155 g Mass

Compliance with standards and directi-

ves

Standard conformity

Product standard FN 60947-5-2:2007

IEC 60947-5-2:2007

EN 62103 Standards

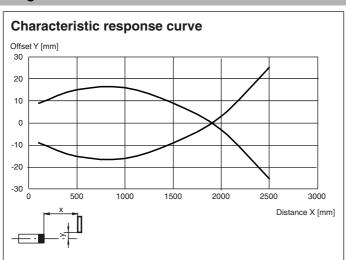
Approvals and certificates

Protection class II , rated voltage ≤ 250 V AC with pollution degree 1-2 accor-

ding 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.

