



### Model Number

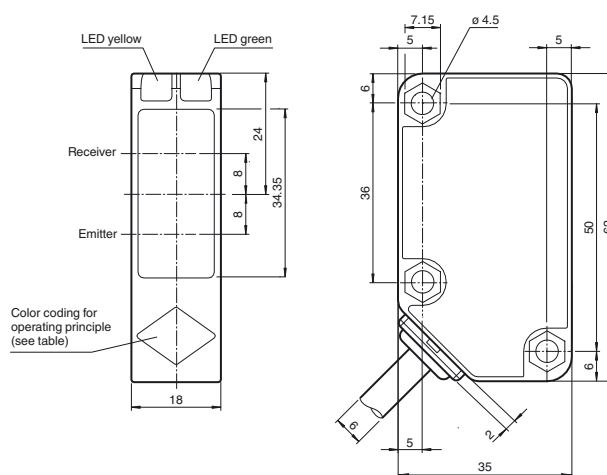
**RLK31-6/31/115**

Retroreflective sensor  
with 2 m fixed cable

### Features

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

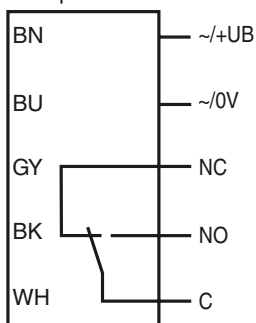
### Dimensions



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

Option:



**Technical data****General specifications**

Effective detection range	14 m
Reflector distance	200 ... 14000 mm
Threshold detection range	16.5 m
Reference target	H85-2 reflector
Light source	LED
Light type	modulated visible red light , 630 nm
Polarization filter	no
Diameter of the light spot	approx. 240 mm at a distance of 8 m
Angle of divergence	3 °
Ambient light limit	50000 Lux

**Functional safety related parameters**

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**

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	dark 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

**Ambient conditions**

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

**Mechanical specifications**

Degree of protection	IP67
Connection	2 m fixed cable
Material	
Housing	Polycarbonate
Optical face	PMMA
Mass	154 g

**Compliance with standards and directives**

Directive conformity	EMC Directive 2004/108/EC
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 ≤ 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

## Curves/Diagrams

