## **Model Number**

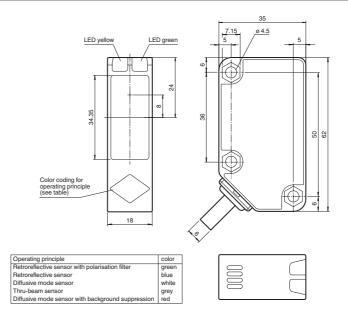
#### LA31/LK31/25/31/115

Thru-beam sensor with 2 m fixed cable

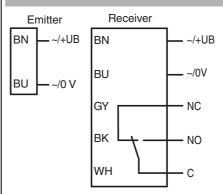
#### **Features**

- Cost-optimized series for standard
- Large construction with small housing
- Highly visible LED
- Version for universal voltages
- Relay output
- Wide range of mounting options

## **Dimensions**



## **Electrical connection**



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Technical data		
System components		
Emitter		LA31/115
Receiver		LK31/25/31/115
General specifications		
Effective detection range		0 30 m 43 m
Threshold detection range Light source		LED
Light type		modulated visible red light, 630 nm
Alignment aid		LED yellow:  1. LED illuminates: Sufficient light signal received, emitter and receiver alignment is correct  2. LED flashes: Reaching switching point  3. LED off: Light beam is interrupted or the alignment is out
Diameter of the light spot		approx. 800 mm at a distance of 30 m
Angle of divergence		Emitter: 0.5 °, Receiver: 1.5 °
Ambient light limit		50000 Lux ; according EN 60947-5-2
Functional safety related para	meters	620 a
MTTF <sub>d</sub> Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		<b>0</b> /0
Operation indicator		LED green: power on
Function indicator		LED yellow:
		LED lit constantly: signal > 2 x switching point (function reserve)     LED flashes: signal between 1 x switching point and 2 x switching point
		3. LED off: signal < switching point
Electrical specifications		04 040 // 40
Operating voltage  No-load supply current	U <sub>B</sub>	24 240 V AC 12 240 V DC Emitter: ≤ 20 mA
Power consumption	'0 P <sub>0</sub>	Receiver: ≤ 20 mA Emitter: ≤ 1 VA
Output	- 0	Receiver: ≤ 1 VA
Switching type		light on
Signal output		Relay, 1 alternator
Switching voltage		max. 250 V AC/DC
Switching current		max. 3 A
Switching power		DC: max. 150 W AC: max. 750 VA
Switching frequency Response time	f	≤ 20 Hz ≤ 25 ms
Conformity		511 000 /5 5 0
Product standard		EN 60947-5-2
Ambient conditions		0F FF 9C / 10 101 9F)
Ambient temperature Storage temperature		-25 55 °C (-13 131 °F) -40 70 °C (-40 158 °F)
Mechanical specifications		10 10 O (-10 130 F)
Housing width		18 mm
Housing height		62 mm
Housing depth		35 mm
Degree of protection		IP67
Connection		Emitter: 2 m fixed cable , 2-wire Receiver: 2 m fixed cable , 5-wire
Material		Dalvasykanata
Housing Optical face		Polycarbonate PMMA
Mass		Emitter: 116 g
Compliance with standards ar	nd.	Receiver: 131 g
directives		
Standard conformity		
Standards		EN 62103
Annroyale and cortificates		
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-RL31-06

Stainless steel mounting bracket with adjustable half clamp on the side

#### OMH-RL31-05

Mounting bracket for mounting on flat surfaces with 2 M4 screws

Other suitable accessories can be found at www.pepperl-fuchs.com

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# **Curves/Diagrams**

