







Model Number

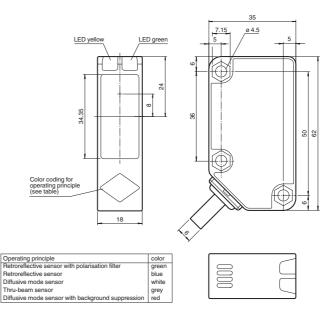
LA31/LK31/25/31/115

Thru-beam sensor with 2 m fixed cable

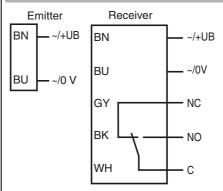
Features

- 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
Threshold detection range		43 m
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 par-	ameters	
MTTF _d		620 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
ndicators/operating means		150
Operation indicator Function indicator		LED green: power on 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 _B	24 240 V AC
No-load supply current	I ₀	12 240 V DC Emitter: ≤ 20 mA Receiver: ≤ 20 mA
Power consumption	P ₀	Emitter: ≤ 1 VA Receiver: ≤ 1 VA
Output		
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	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		
Protection degree		IP67
Connection		Emitter: 2 m fixed cable , 2-wire Receiver: 2 m fixed cable , 5-wire
Material		
Housing		Polycarbonate
Optical face		PMMA
Mass		Emitter: 116 g Receiver: 131 g
Compliance with standards a res	and directi	-
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		=N 000 = 0 000=
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 of
CCC approval		cuit according to EN 50178, rated insulation voltage 240 V AC Certified by China Compulsory Certification (CCC)
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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 with M10 threaded rod

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

Curves/Diagrams

