

Model Number

CE

RLK31-8-2500-IR/31/33/115-7M

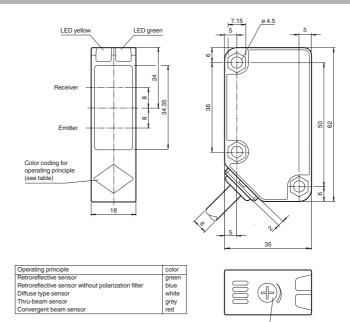
Diffuse mode sensor

with 7 m fixed cable

Features

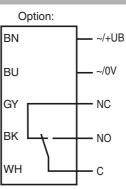
- Operating voltage AC / DC •
- Highly visible LED ٠
- Relay output, 1 potential free • alternator
- Compact and stable housing •
- Protection class II .

Dimensions



ng range adji

Electrical connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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RLK31-8-2500-IR/31/33/115-7M

PEPPERL+FUCHS 1 **Technical data**

RLK31	-8-2	500-	IR/31	/33/1	15-7	Μ

Accessories

OMH-RL31-01

OMH-RL31-02

OMH-RL31-03

Mounting bracket

Mounting bracket narrow

Mounting bracket narrow

Technical data				
General specifications				
Detection range		0 2500 mm adjustable		
Reference target		standard white 200 mm x 200 mm		
Light source		IRED		
Light type		modulated infrared light , 850 nm		
Polarization filter		no		
Diameter of the light spot		approx. 50 mm at a distance of 2.5 m		
Angle of divergence		2 °		
Ambient light limit		50000 Lux ; according EN 60947-5-2		
Functional safety related parame	eters			
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		Sensing range adjuster		
Electrical specifications				
Operating voltage	U _B	24 240 V AC 12 240 V DC		
No-load supply current	I ₀	≤ 40 mA		
Power consumption	P ₀	≤2VA		
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	f	≤ 20 Hz		
Response time		≤ 25 ms		
Conformity				
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-25 55 °C (-13 131 °F)		
Storage temperature		-40 70 °C (-40 158 °F)		
Mechanical specifications				
Housing width		18 mm		
Housing height		62 mm		

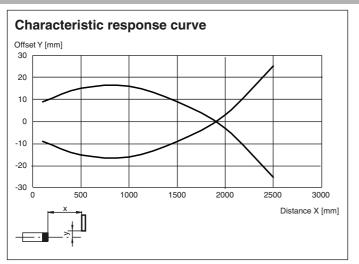
Mechanical specification Housing width Housing height Housing depth 35 mm Degree of protection IP67 Connection 7 m fixed cable , 5-wire Material Housing Polycarbonate Optical face РММА 480 g Mass Approvals and certificates

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 Certified by China Compulsory Certification (CCC)

CCC approval

Curves/Diagrams



OMH-RL31-04 Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-RL31-05 Mounting bracket for mounting on flat surfaces with 2 M4 screws

OMH-RL31-06 Stainless steel mounting bracket with adjustable half clamp on the side

Additional accessories can be found in the Internet.

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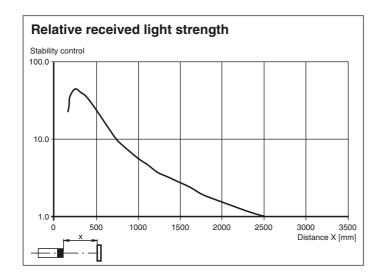
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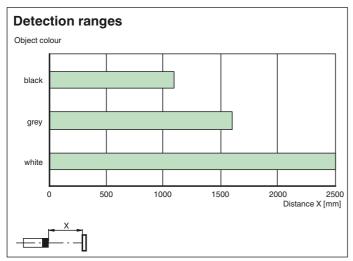
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