

Model Number

Features

tasks

Relay output

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RLK31-6/25/31/115

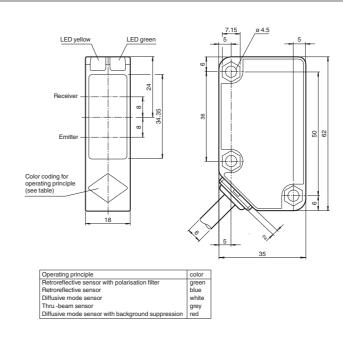
Retroreflective sensor with 2 m fixed cable

Cost-optimized series for standard

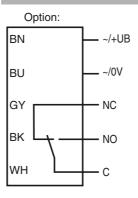
Version for universal voltages

Large construction with small housing

Dimensions



Electrical connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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Technical data			Accessories
General specifications			
Effective detection range		14 m	OMH-RL31-01
Reflector distance		200 14000 mm	Mounting bracket
Threshold detection range		16.5 m	OMH-RL31-02
Reference target		H85-2 reflector	Mounting bracket narrow
Light source		LED	Mounting bracket narrow
Light type		modulated visible red light , 630 nm	OMH-RL31-03
Polarization filter		no	Mounting bracket narrow
Diameter of the light spot		approx. 240 mm at a distance of 8 m	
Angle of divergence		3°	OMH-RL31-04
Ambient light limit		50000 Lux	Mounting aid for round steel ø 12 mm or
Functional safety related para	meters		sheet 1.5 mm 3 mm
MTTF _d		790 a	
Mission Time (T _M)		20 a	OMH-RL31-05
Diagnostic Coverage (DC)		0%	Mounting bracket with M10 threaded rod
Indicators/operating means			OMH-RL31-06
Operation indicator		LED green: power on	
Function indicator		LED vellow:	Stainless steel mounting bracket with ad-
		1. LED lit constantly: signal > 2 x switching point (function	justable half clamp on the side
		reserve)	Suitable reflectors and cable sockets can be
		2. LED flashes: signal between 1 x switching point and 2 x switching point	found in the Internet
		3. LED off: signal < switching point	
Electrical specifications		0 0.	
Operating voltage	U _B	24 240 V AC	
- p	-0	12 240 V DC	
No-load supply current	I ₀	≤ 40 mA	
Power consumption	P ₀	≤ 2 VA	
Output			
Switching type		light 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		РММА	
Mass		154 g	
Compliance with standards a	nd direct	i-	
ves			
Directive conformity		EMC Directive 2004/108/EC	
Standard conformity			
Product standard		EN 60947-5-2:2007	
Standarda		IEC 60947-5-2:2007	
Standards		EN 62103	
Approvals and certificates			
Protection class		II, rated voltage \leq 250 V AC with pollution degree 1-2 accor-	
		ding to IEC 60664-1 Output circuit basis insulation of input cir- cuit according to EN 50178, rated insulation voltage 240 V AC	
CCC approval		Certified by China Compulsory Certification (CCC)	

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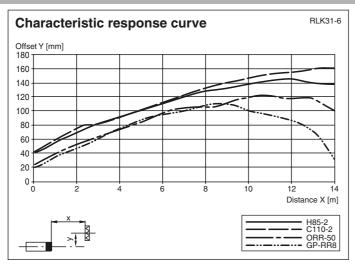
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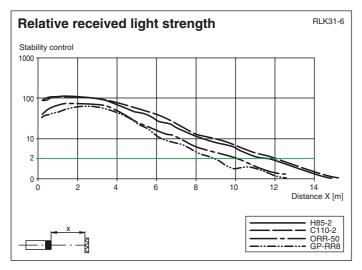
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Curves/Diagrams





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