

Model Number

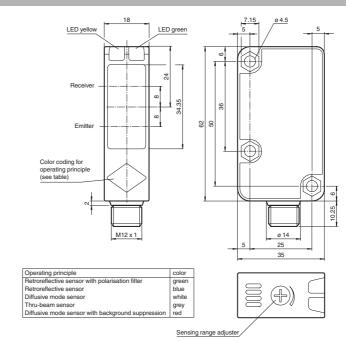
RL31-8-1200-RT/73c/136

Diffuse mode sensor with 4-pin, M12 x 1 connector

Features

- Highly visible LED ٠
- Powerful push-pull output •
- Red transmission light •
- Compact and stable housing •
- Protection class II •

Dimensions



Electrical connection

Option: +UB ā 2 C 3 • 0 V \cap 4 Q O = Light on = Dark on

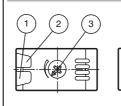
Pinout

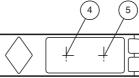


Wire colors in accordance with EN 60947-5-2 2 3 4

BN WH BU BK (brown) (white) (blue) (black)

Indicators/operating means





1	Operating display	green	
2	Signal display	yellow	
3	Sensing range adjuster		
4	Emitter		
5	Receiver		

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RL31-8-1200-RT/73c/136

Technical data			Accessor	
General specifications			OMH-RL31	
Detection range		0 1200 mm adjustable	Mounting b	
Detection range max.		0 1200 mm		
Reference target		standard white, 100 mm x 100 mm	OMH-RL31 Mounting b	
Light source		LED		
Light type		modulated visible red light , 630 nm		
Diameter of the light spot		approx. 25 mm at a distance of 1.2 m	OMH-RL31	
Angle of divergence		2 °	Mounting b	
Ambient light limit		50000 Lux ; according EN 60947-5-2		
Functional safety related part	rameters		OMH-RL31	
MTTFd		920 a	Mounting a	
Mission Time (T _M)		20 a	sheet 1.5 m	
Diagnostic Coverage (DC)		0 %	OMH-RL31	
Indicators/operating means				
Operation indicator		LED green: power on	Mounting b surfaces wi	
Function indicator		LED yellow, lights up with receiver lit		
Control elements		Sensing range adjuster		
Electrical specifications			Stainless st	
Operating voltage	UB	10 30 V DC	adjustable	
Ripple	_	10 %		
No-load supply current	I ₀	≤ 20 mA	V1-G-2M-F	
Output			Female cor	
Switching type		light on		
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected	Female cor	
Switching voltage		max. 30 V DC	Other eviteb	
Switching current		max. 100 mA	Other suitab	
Voltage drop	U _d	≤ 1.5 V	www.pepper	
Switching frequency	f	≤ 500 Hz		
Response time		≤1 ms		
Conformity				
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-30 55 °C (-22 131 °F)		
Storage temperature		-40 70 °C (-40 158 °F)		
Mechanical specifications				
Housing width		18 mm		
Housing height		62 mm		
Housing depth		35 mm		
Degree of protection		IP67		
Connection		4-pin, M12 x 1 connector		
Material				
Housing		Polycarbonate		
Optical face		PMMA		
Mass		25 g		
Approvals and certificates				
EAC conformity		TR CU 020/2011		
Protection class		II, rated insulation voltage ≤ 250 V AC with pollution degree 1-		
1 TOLEGION CIASS		2 according to IEC 60664-1 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage 240 V AC		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure		
			1	

UL approval CCC approval

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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CCC approval / marking not required for products rated ≤36 V

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81-01 bracket

81-02 bracket narrow

81-03 bracket narrow

31-04 aid for round steel ø 12 mm or mm ... 3 mm

81-05 bracket for mounting on flat vith 2 M4 screws

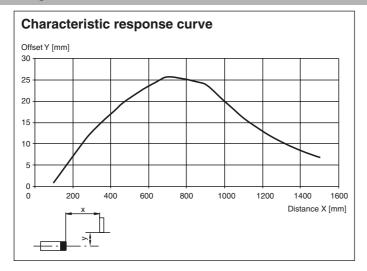
1-06 steel mounting bracket with half clamp on the side

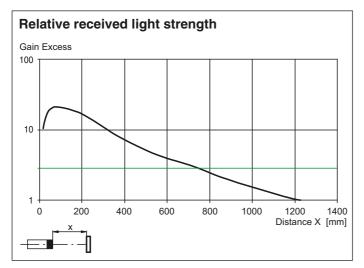
PUR ordset, M12, 4-pin, PUR cable

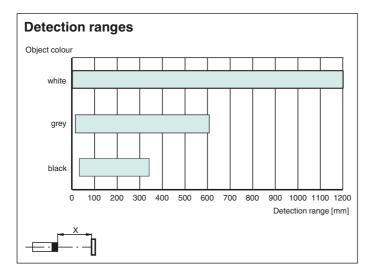
PUR ordset, M12, 4-pin, PUR cable

able accessories can be found at rl-fuchs.com

Curves/Diagrams







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