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Model Number

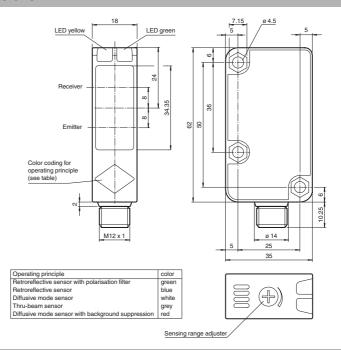
RL31-8-1200-RT/59/73c/136

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

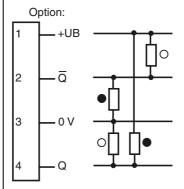
Features

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

Dimensions



Electrical connection

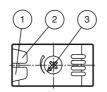


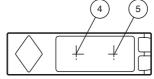
- O = Light on
- = Dark on

Pinout



Indicators/operating means





1	Operating display	green
2	Signal display	yellow
2	Canaina rango adjustor	

Sensing range adjuste

4 Emitter

Technical data			
General specifications			
Detection range		0 1200 mm adjustable	
Detection range max.		0 1200 mm	
Reference target		standard white, 100 mm x 100 mm	
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	
Angle of divergence		2°	
Ambient light limit		50000 Lux; according EN 60947-5-2	
Functional safety related para	meters		
MTTF _d		920 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Operating display		LED green: power on	
Function display		LED yellow, lights up with receiver lit	
Controls		Detection range adjuster	
Electrical specifications		, , , , , , , , , , , , , , , , , , ,	
Operating voltage	U _B	10 30 V DC	
Ripple	- D	10 %	
No-load supply current	I _O	< 20 mA	
Output	-0		
Switching type		dark on	
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse pola-	
		rity protected	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Voltage drop	U _d	≤ 1.5 V	
Switching frequency	f	≤ 500 Hz	
Response time		≤ 1 ms	
Ambient conditions			
Ambient temperature		-30 55 °C (-22 131 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Protection degree		IP67	
Connection		connector M12 x 1, 4-pin	
Material			
Housing		Polycarbonate	
Optical face		PMMA	
Mass		25 g	
Compliance with standards an ves	d direct	! -	
Directive conformity		EMC Directive 2004/108/EC	
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates			
Protection class		II , rated insulation 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	
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure	
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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-RL31-05

Mounting bracket with M10 threaded rod

OMH-RL31-06

Stainless steel mounting bracket with adjustable half clamp on the side

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

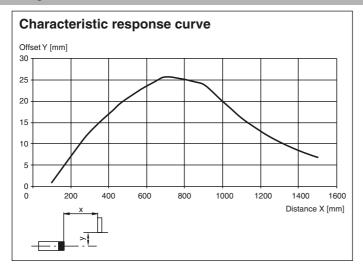
Other suitable accessories can be found at www.pepperl-fuchs.com

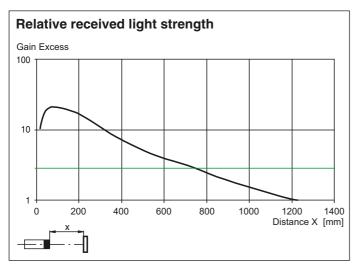
EPPERL+FUCHS

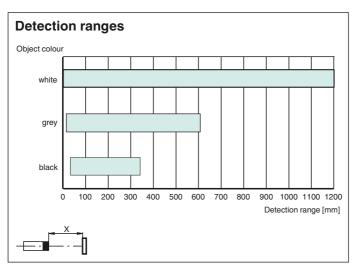
CCC approval

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

Curves/Diagrams







www.pepperl-fuchs.com