

EAE

Model Number

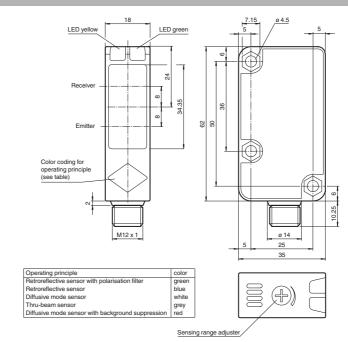
RL31-8-1200-RT/73c/136

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

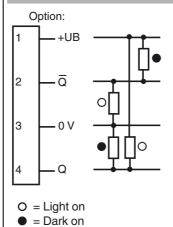
Features

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

Dimensions



Electrical connection



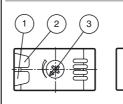
Pinout

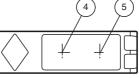




BN WH BU BK (brown) (white) (blue) (black)

Indicators/operating means





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

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

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

Technical data			Accessories	
General specifications			OMH-RL31-01	
Detection range		0 1200 mm adjustable	Mounting bracket	
Detection range max.		0 1200 mm	Mounting bracket	
Reference target		standard white, 100 mm x 100 mm	OMH-RL31-02	
Light source		LED	Mounting bracket narrow	
Light type		modulated visible red light , 630 nm	-	
Diameter of the light spot		approx. 25 mm at a distance of 1.2 m	OMH-RL31-03 Mounting bracket narrow	
Angle of divergence		2 °		
Ambient light limit		50000 Lux ; according EN 60947-5-2	OMH-RL31-04	
Functional safety related parameters				
MTTF _d		920 a	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm	
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %	OMH-RL31-05 Mounting bracket with M10 threaded rod	
Indicators/operating means				
Operation indicator		LED green: power on		
Function indicator		LED yellow, lights up with receiver lit	OMH-RL31-06	
Control elements		Sensing range adjuster	Stainless steel mounting bracket with ad-	
Electrical specifications			justable half clamp on the side	
Operating voltage	UB	10 30 V DC	,	
Ripple		10 %	V1-G-2M-PUR	
No-load supply current	I ₀	≤ 20 mA	Female cordset, M12, 4-pin, PUR cable	
Output				
Switching type		light on	V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable	
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse pola- rity protected		
Switching voltage		max. 30 V DC	Other suitable accessories can be found a	
Switching current		max. 100 mA	www.pepperl-fuchs.com	
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				
Degree of protection		IP67		
Connection		4-pin, M12 x 1 connector		
Material				
Housing		Polycarbonate		
Optical face		PMMA		
Mass		25 g		
Compliance with standards ves	and direct	i-		
Directive conformity		EMC Directive 2004/108/EC		
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
A				
Approvals and certificates		TR CLL000/0011		
EAC conformity		TR CU 020/2011		
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		
CCC approval		CCC approval / marking not required for products rated ≤36 V		

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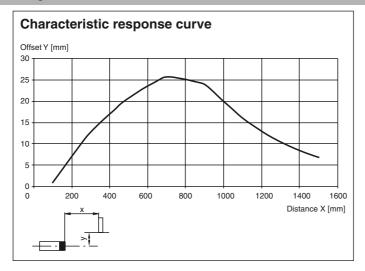
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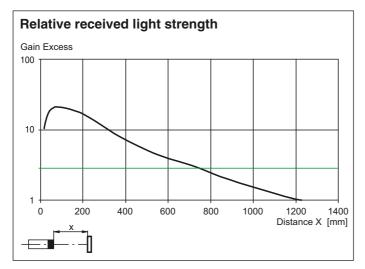
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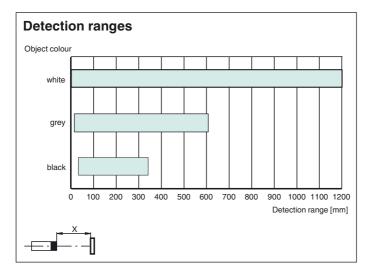


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Curves/Diagrams







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