EAC



Model Number

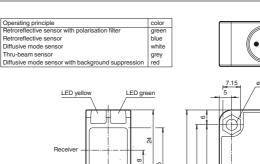
RL31-54/73c/136

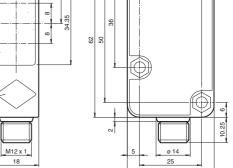
Retroreflective sensor with 4-pin, M12 x 1 connector

Features

- Compact and stable housing ٠
- Glare protected with polarization filter ٠
- Highly visible LED •
- Powerful push-pull output •
- Protection class II •

Dimensions





35

Electrical connection

Emitt

Color coding for operating principle (see table)

Option: +UB С ā 2 3 0 V 4 Q O = Light on = Dark on

Pinout

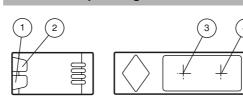




2 3 4

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

Indicators/operating means



1	Operating display	green
2	Signal display	yellow
3	Emitter	
4	Receiver	

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Technical data			Accessories
General specifications			OMH-RL31-01
Effective detection range		0 9000 mm	
Reflector distance		20 9000 mm	Mounting bracket
Threshold detection range		12 m	OMH-RL31-02
Reference target		reflector C110-2	Mounting bracket narrow
Light source		LED	Mounting Bracket narrow
Light type		modulated visible red light , 630 nm	OMH-RL31-03
Polarization filter		yes	Mounting bracket narrow
Diameter of the light spot		approx. 200 mm at a distance of 6 m	
Angle of divergence		3 °	OMH-RL31-04
Ambient light limit		50000 Lux ; according EN 60947-5-2	Mounting aid for round steel ø 12 mm or
Functional safety related pa	arameters		sheet 1.5 mm 3 mm
MTTF _d		920 a	OMH-RL31-05
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	Mounting bracket for mounting on flat
Indicators/operating means	;		surfaces with 2 M4 screws
Operation indicator		LED green: power on	OMH-RL31-06
Function indicator		LED yellow:	Stainless steel mounting bracket with
		1. LED lit constantly: signal > 2 x switching point (function	adjustable half clamp on the side
		reserve) 2. LED flashes: signal between 1 x switching point and 2 x	
		switching point	V1-G-2M-PUR
		3. LED off: signal < switching point	Female cordset, M12, 4-pin, PUR cable
Electrical specifications			
Operating voltage	UB	10 30 V DC	V1-W-2M-PUR
Ripple		10 %	Female cordset, M12, 4-pin, PUR cable
No-load supply current	I ₀	≤ 20 mA	
Output			Other suitable accessories can be found at www.pepperl-fuchs.com
Switching type		dark on	www.peppen-luchs.com
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity 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	
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		plastic	
Optical face		РММА	
Mass		24 g	
Approvals and certificates			
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 ${\leq}36~\text{V}$	

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

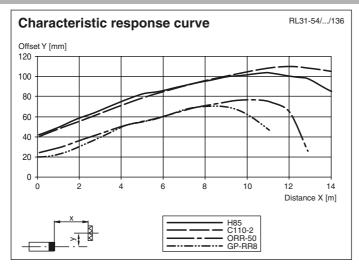
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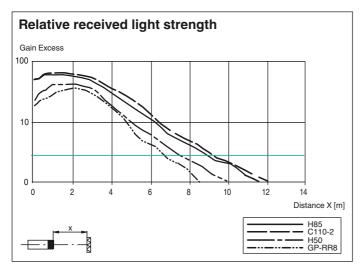
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Curves/Diagrams





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