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



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

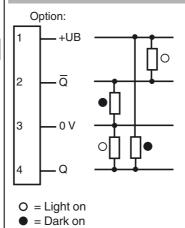
Diffuse mode sensor with 4-pin, M12 x 1 connector

Features

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

Dimensions LED yellow LED green 4 Re 34.35 9 50 Emitter Color coding for operating principle (see table) Ð 10.25 M12 x 1 ø 14 25 35 Operating principle Retroreflective sensor Retroreflective sensor Diffusive mode sensor Thru-beam sensor greer blue white Æ grey red Diffusive mode sensor with background supp Sensing range

Electrical connection



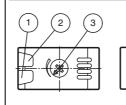
Pinout

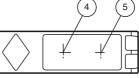


Wire colors in accordance with EN 60947-5-2 2 3 4

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		

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

fa-info@us.pepperl-fuchs.com www.pepperl-fuchs.com

USA: +1 330 486 0001

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

EPPPERL+FUCHS 1

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

Technical data			Accessorie	
General specifications			OMH-RL31-	
Detection range		0 1200 mm adjustable	Mounting bra	
Detection range max.		0 1200 mm		
Reference target		standard white, 100 mm x 100 mm	OMH-RL31- Mounting bra	
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- Mounting bra	
Angle of divergence		2 °		
Ambient light limit		50000 Lux ; according EN 60947-5-2	OMH-RL31-	
Functional safety related pa	rameters			
MTTF _d		920 a	Mounting aid	
Mission Time (T _M)		20 a	sheet 1.5 mm	
Diagnostic Coverage (DC)		0 %	OMH-RL31-	
Indicators/operating means	i		Mounting bra	
Operation indicator		LED green: power on		
Function indicator		LED yellow, lights up with receiver lit	Sunaces with	
Control elements		Sensing range adjuster	OMH-RL31-	
Electrical specifications			Stainless ste	
Operating voltage	UB	10 30 V DC	adjustable ha	
Ripple		10 %	-	
No-load supply current	I ₀	≤ 20 mA	V1-G-2M-PU	
Output			Female cord	
Switching type		dark on	V1-W-2M-PU Female cord	
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected		
Switching voltage		max. 30 V DC	Other suitable	
Switching current		max. 100 mA		
Voltage drop	U _d	≤ 1.5 V	www.pepperl-	
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				
Protection class		II, rated insulation voltage \leq 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 ${\leq}36~V$		

ies

-01 racket

-02 racket narrow

-03 racket narrow

-04 id for round steel ø 12 mm or ım ... 3 mm

-05 racket for mounting on flat th 2 M4 screws

-06 eel mounting bracket with half clamp on the side

UR dset, M12, 4-pin, PUR cable

UR dset, M12, 4-pin, PUR cable

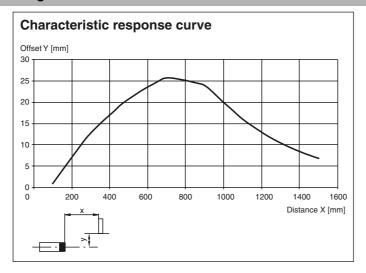
le accessories can be found at l-fuchs.com

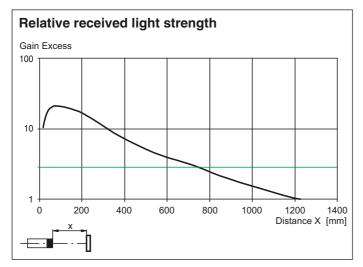
2

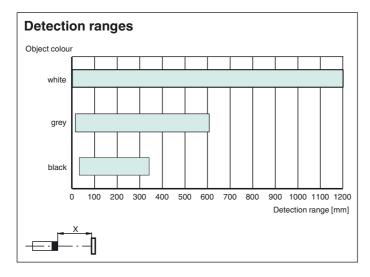
Germany: +49 621 776 1111

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

Curves/Diagrams







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

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com