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Model Number

CE

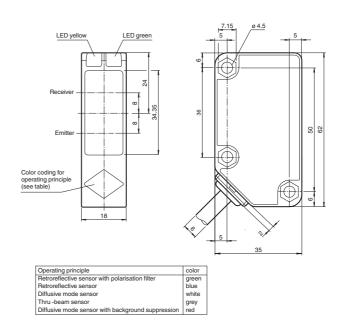
RLK31-54/25/31/33/115-15M SET

Retroreflective sensor

with 15 m fixed cable; incl. refector and stainless steel mounting bracket

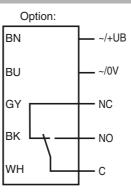
Features

- ٠ Cost-optimized series for standard tasks
- Large construction with small housing •
- Version for universal voltages •
- Relay output •
- Version with accessories in scope of • delivery



Electrical connection

Dimensions



Pepperl+Fuchs Group

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	Accessories
000 mm	OMH-RL31-01 Mounting bracket
9000 mm	OMH-RL31-02 Mounting bracket narrow
lated visible red light , 630 nm	OMH-RL31-03
ox. 200 mm at a distance of 6 m	Mounting bracket narrow OMH-RL31-04
0 Lux tor C110-2	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
-RL31-05 mounting bracket with mounting materials	OMH-RL31-05 Mounting bracket with M10 threaded roo
	OMH-RL31-06 Stainless steel mounting bracket with ad justable half clamp on the side
green: power on yellow: D lit constantly: signal > 2 x switching point (function ve) D flashes: signal between 1 x switching point and 2 x swit- point D off: signal < switching point	Suitable reflectors and cable sockets can b found in the Internet
240 V AC	
240 V DC	
mA	
on	
r, 1 alternator	
240 V AC	
3 A	

Technical data		
General specifications		0 0000
Effective detection range		0 9000 mm
Reflector distance		20 9000 mm
Threshold detection range		12 m reflector C110-2
Reference target		LED
Light source		
Light type Polarization filter		modulated visible red light , 630 nm
Diameter of the light spot		yes approx. 200 mm at a distance of 6 m
Angle of divergence		3°
Ambient light limit		50000 Lux
Accessories provided		reflector C110-2 OMH-RL31-05 mounting bracket with mounting materials
Functional safety related parar	neters	
MTTF _d	netero	790 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
ndicators/operating means		
Operation indicator		LED green: power on
Function indicator		LED yellow:
Function indicator		 LED lit constantly: signal > 2 x switching point (function reserve) LED flashes: signal between 1 x switching point and 2 x switching point LED off: signal < switching point
Electrical specifications		
Operating voltage	U _B	24 240 V AC 12 240 V DC
No-load supply current	I ₀	≤ 40 mA
Power consumption	Po	≤ 2 VA
Dutput		
Switching type		light on
Signal output		Relay, 1 alternator
Switching voltage		max. 240 V AC
Switching current		max. 3 A
Switching power		DC: max. 150 W AC: max. 750 VA
Switching frequency	f	20 Hz
Response time		≤ 25 ms
Ambient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		15 m fixed cable
Material		
Housing		Polycarbonate
Optical face		PMMA
Mass		154 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
Standards		EN 62103
Approvals and certificates		
		II , rated voltage ≤ 250 V AC with pollution degree 1-2 accor- ding to IEC 60664-1 Output circuit basis insulation of input ci
Protection class		cuit according to EN 50178, rated insulation voltage 240 V AC

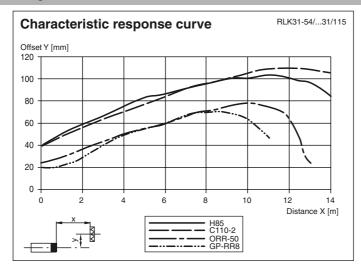
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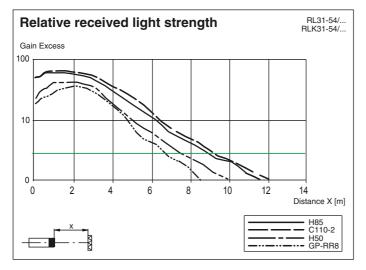
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Curves/Diagrams





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