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Model Number

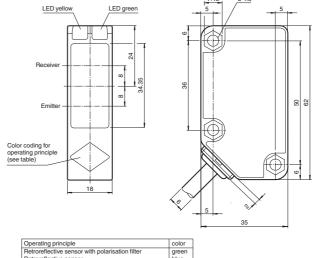
RLK31-54/31/115

Retroreflective sensor with 2 m fixed cable

Features

- Cost-optimized series for standard
- Large construction with small housing
- Version for universal voltages
- Relay output

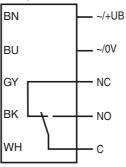
Dimensions



Operating principle	color
Retroreflective sensor with polarisation filter	green
Retroreflective sensor	blue
Diffusive mode sensor	white
Thru -beam sensor	grey
Diffusive mode sensor with background suppression	red

Electrical connection





	Technical data			
	General specifications			
	Effective detection range		0 9000 mm	
	Reflector distance		20 9000 mm	
	Threshold detection range		12 m	
	Reference target		reflector C110-2	
	Light source		LED	
	Light type		modulated visible red light , 630 nm	
	Polarization filter		yes	
	Diameter of the light spot		approx. 200 mm at a distance of 6 m	
	Angle of divergence		3°	
	Ambient light limit		50000 Lux	
	Functional safety related parame	eters		
	MTTF _d		790 a	
	Mission Time (T _M)		20 a	
	Diagnostic Coverage (DC)		0 %	
	Indicators/operating means			
	Operation indicator		LED green: power on	
	Function indicator		LED yellow:	
			1. LED lit constantly: signal > 2 x switching point (function reserve)	
			2. LED flashes: signal between 1 x switching point and 2 x	
			switching point	
			3. LED off: signal < switching point	
	Electrical specifications			
	Operating voltage	U_{B}	24 240 V AC 12 240 V DC	
	No-load supply current	I.	12 240 v DC ≤ 40 mA	
	Power consumption	I ₀	≤ 2 VA	
	Output	1 ()	22 //	
	Switching type		dark 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	
	Conformity			
	Product standard		EN 60947-5-2	
	Ambient conditions			
	Ambient temperature		-25 55 °C (-13 131 °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		2 m fixed cable	
	Material			
	Housing		Polycarbonate	
	Optical face		PMMA	
	Mass		154 g	
	Approvals and certificates			
	EAC conformity		TR CU 020/2011 TR CU 004/2011	
	Protection class		II , rated 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	
	CCC ammunud		Contified by China Commulatory Contification (CCC)	

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 for mounting on flat surfaces with 2 M4 screws

OMH-RL31-06

Stainless steel mounting bracket with adjustable half clamp on the side

Suitable reflectors and cable sockets can be found in the Internet

FPEPPERL+FUCHS

CCC approval

Certified by China Compulsory Certification (CCC)

Curves/Diagrams

