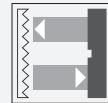




Retroreflective sensor

RLK31-6/31/115

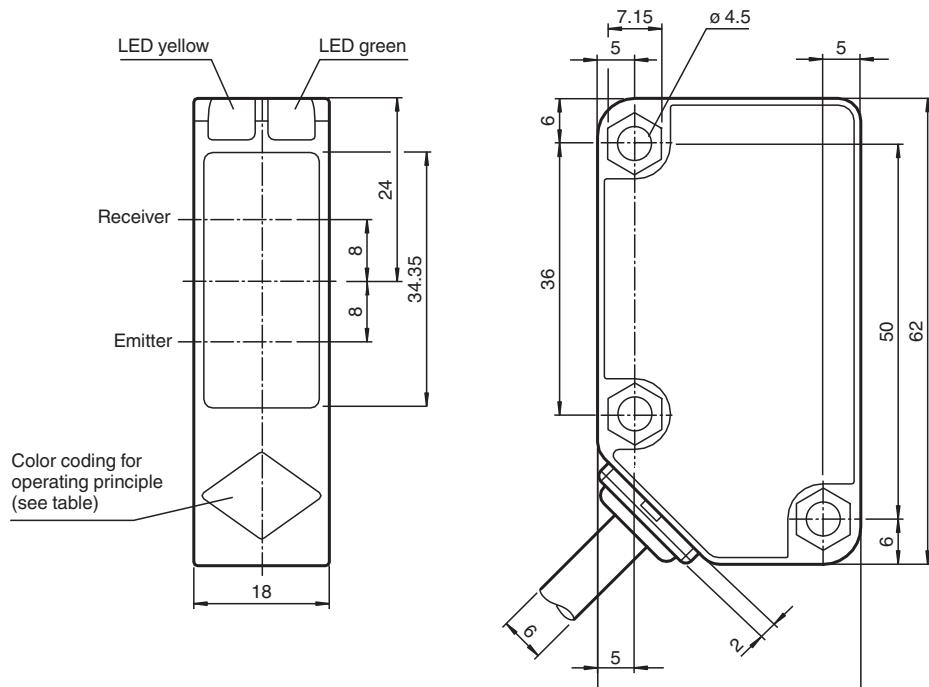


- Cost-optimized series for standard tasks
- Large construction with small housing
- Version for universal voltages
- Relay output

Retroreflective sensor without polarization filter, plastic housing, 14 m detection range, red light, dark on, AC/DC version, relay contact output, no control elements, fixed cable



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

Technical Data

General specifications

Release date: 2023-12-28 Date of issue: 2023-12-28 Filename: 183067_eng.pdf

Effective detection range

14 m

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

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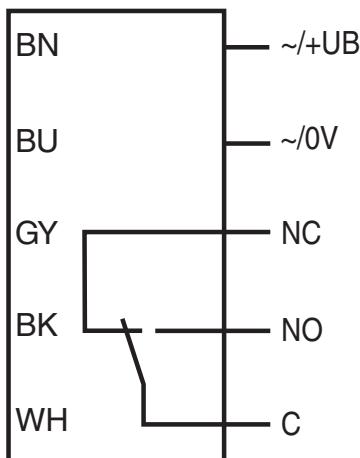
 PEPPERL+FUCHS

Technical Data

Reflector distance	200 ... 14000 mm	
Threshold detection range	16.5 m	
Reference target	H85-2 reflector	
Light source	LED	
Light type	modulated visible red light, 630 nm	
Polarization filter	no	
Diameter of the light spot	approx. 240 mm at a distance of 8 m	
Opening angle	3 °	
Ambient light limit	50000 Lux	
Functional safety related parameters		
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 ₀	≤ 40 mA
Power consumption	P ₀	≤ 2 VA
Output		
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	
Approvals and certificates		
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 approval	Certified by China Compulsory Certification (CCC)	
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	2 m fixed cable	
Material		
Housing	Polycarbonate	
Optical face	PMMA	
Mass	154 g	
Dimensions		
Height	62 mm	
Width	18 mm	
Depth	35 mm	

Connection Assignment

Option:



Characteristic Curve

