

Retroreflective sensor RLK39-54/31/40a/116

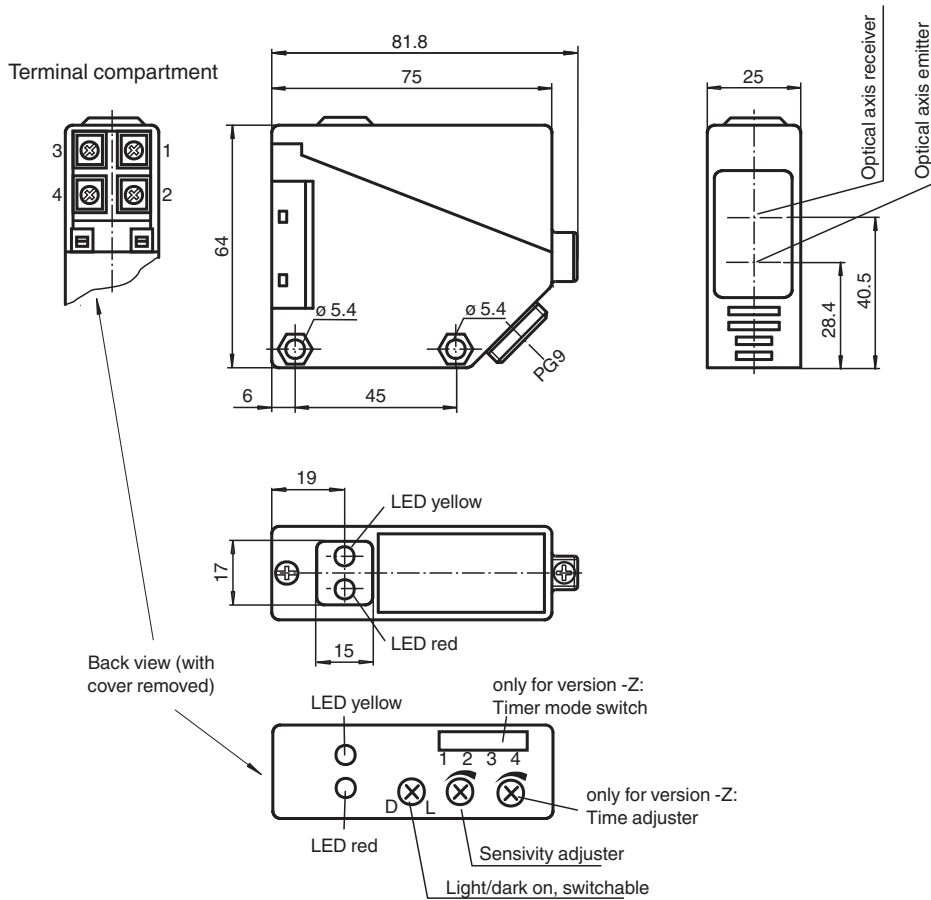


- Glare protected with polarization filter
- Visible red light
- Light-on/dark-on, switchable
- Degree of protection IP67

Retroreflective sensor for standard applications, polarization filter, detection range 7 m, red light, sensitivity adjuster, light/dark on, relay contact output, terminal compartment



Dimensions



Release date: 2023-12-20 Date of issue: 2023-12-20 Filename: 088822_eng.pdf

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

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Technical Data

General specifications			
Effective detection range			0 ... 5 m
Reflector distance			0.1 ... 5 m
Threshold detection range			6 m
Reference target			H50 reflector
Light source			LED red
Light type			modulated visible red light
Polarization filter			yes
Ambient light limit			IEC / EN 60947-5-2 , 10000 Lux
Functional safety related parameters			
MTTF _d			803 a
Mission Time (T _M)			20 a
Diagnostic Coverage (DC)			0 %
Indicators/operating means			
Function indicator			LED yellow: switching state LED red: pre-fault indication
Control elements			Sensing range adjuster, light-on/dark-on changeover switch
Electrical specifications			
Operating voltage	U _B		12 ... 240 V DC 24 ... 240 V AC (50 ... 60 Hz)
Ripple			10 %
No-load supply current	I ₀		≤ 50 mA
Protection class			II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution! The protection class 2 is only valid when the terminal compartment is closed. output circuit has basic insulation to control circuit according to IEC/EN 61140
Power consumption	P ₀		≤ 3 VA
Time delay before availability	t _v		≤ 300 ms
Output			
Switching type			light/dark on
Signal output			1 relay output
Switching voltage			max. 240 V AC ; 150 V DC
Switching current			max. 3 A
Switching power			DC: max. 90 W AC: max. 750 VA
Switching frequency	f		≤ 25 Hz
Response time			≤ 20 ms
Conformity			
Product standard			EN 60947-5-2
Approvals and certificates			
CCC approval			Certified by China Compulsory Certification (CCC)
Approvals			CE
Ambient conditions			
Ambient temperature			-25 ... 55 °C (-13 ... 131 °F)
Storage temperature			-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications			
Housing width			25 mm
Housing height			64 mm
Housing depth			75 mm
Degree of protection			IP67
Connection			terminal compartment PG9, ≤ 2.5 mm ²
Material			
Housing			PBT
Optical face			PMMA
Mass			approx. 110 g
General information			

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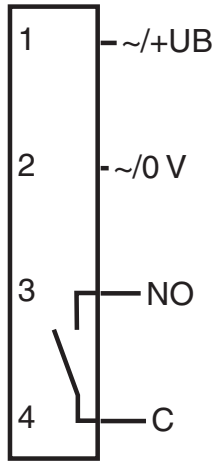
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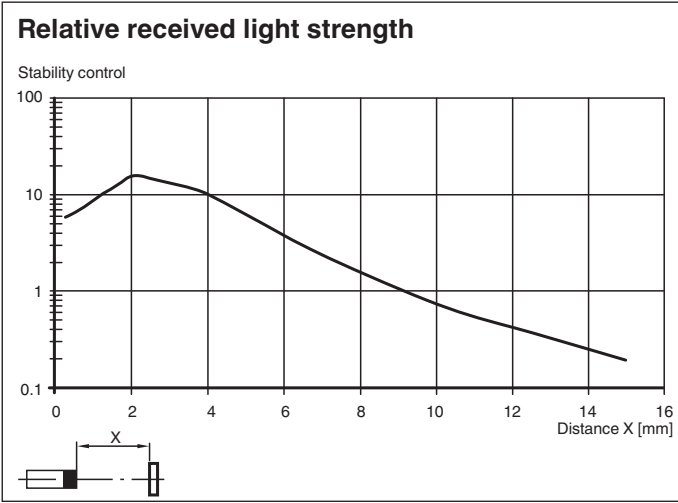
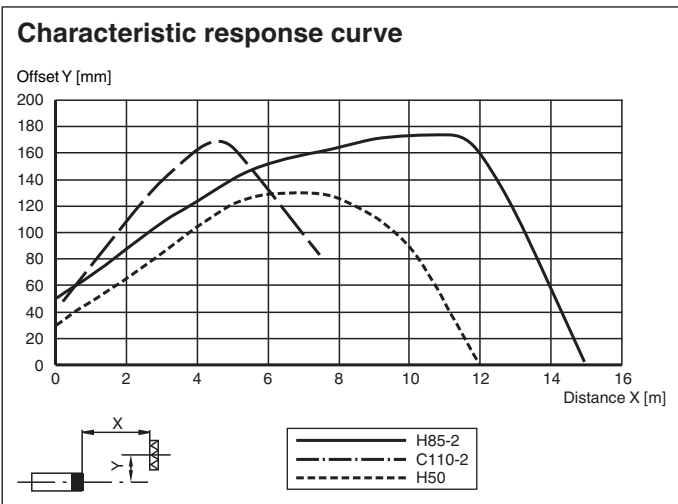
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Scope of delivery	Mounting aid , Reflector
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Connection Assignment



Characteristic Curve



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