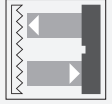


Retroreflective sensor

RLK39-54-5594/31/40a/116

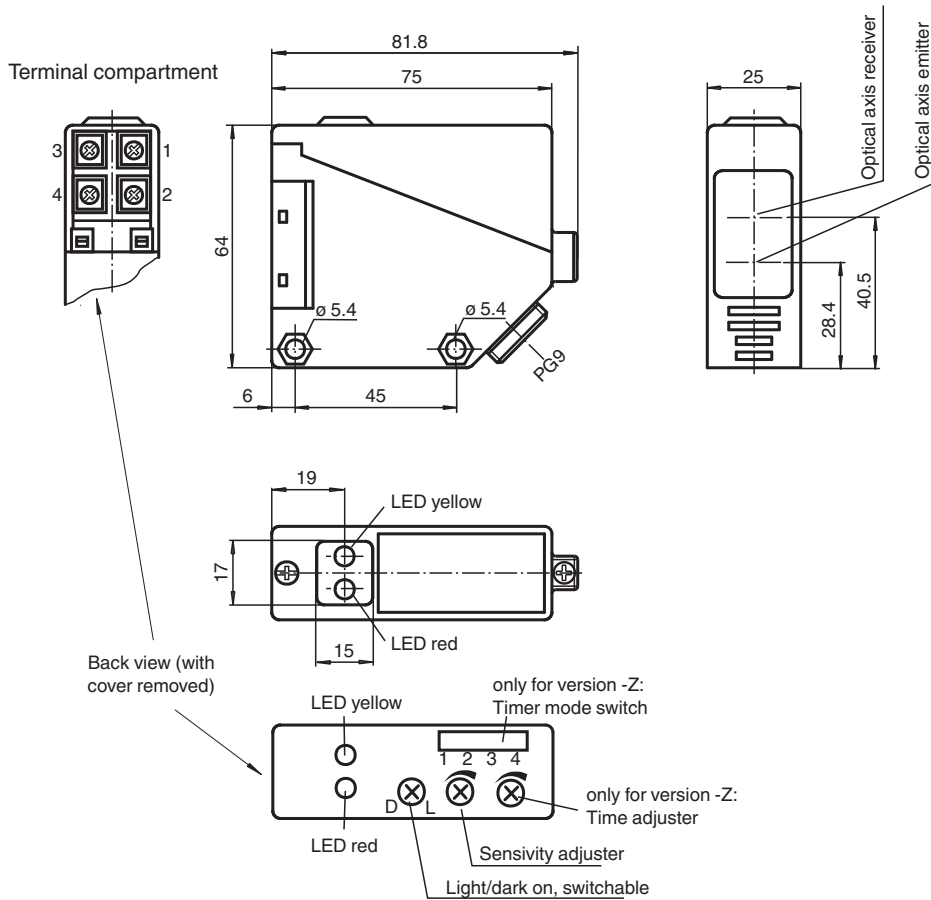


- Glare protected with polarization filter
- Visible red light
- Light-on/dark-on, switchable
- Degree of protection IP67

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: 812306_eng.pdf

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

PF PEPPERL+FUCHS

Technical Data

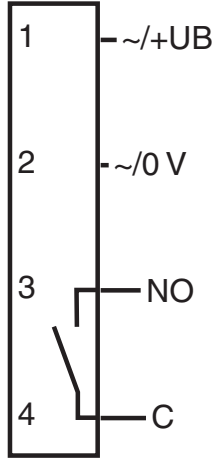
General specifications		
Effective detection range		0 ... 5 m
Reflector distance		0.1 ... 5 m
Threshold detection range		6 m
Reference target		H50 reflector
Light source		LED red
Light type		modulated visible red light
Polarization filter		yes
Ambient light limit		IEC / EN 60947-5-2 , 10000 Lux
Functional 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		
EAC conformity		TR CU 020/2011 TR CU 004/2011
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

Release date: 2023-12-20 Date of issue: 2023-12-20 Filename: 812306_eng.pdf

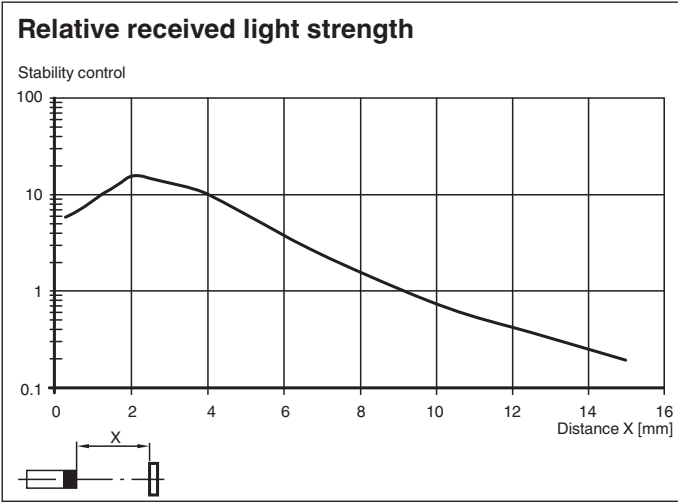
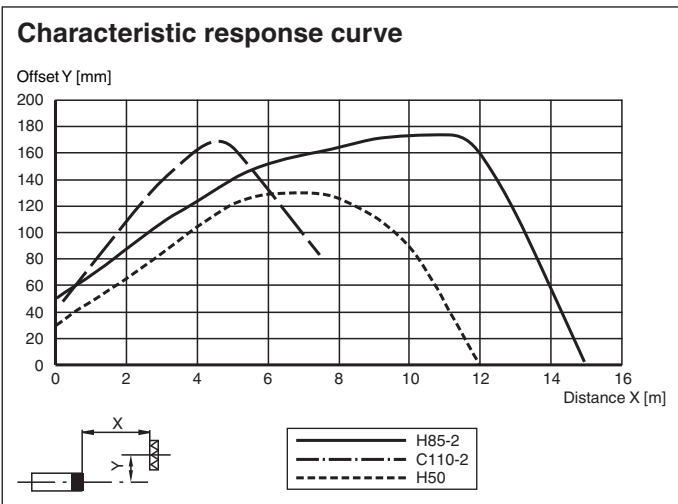
Technical Data

Mass	approx. 110 g
------	---------------

Connection Assignment



Characteristic Curve



Release date: 2023-12-20 Date of issue: 2023-12-20 Filename: 8112306_eng.pdf

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