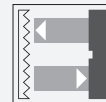




Retroreflective sensor RL39-55/30/35/40a/116/126a

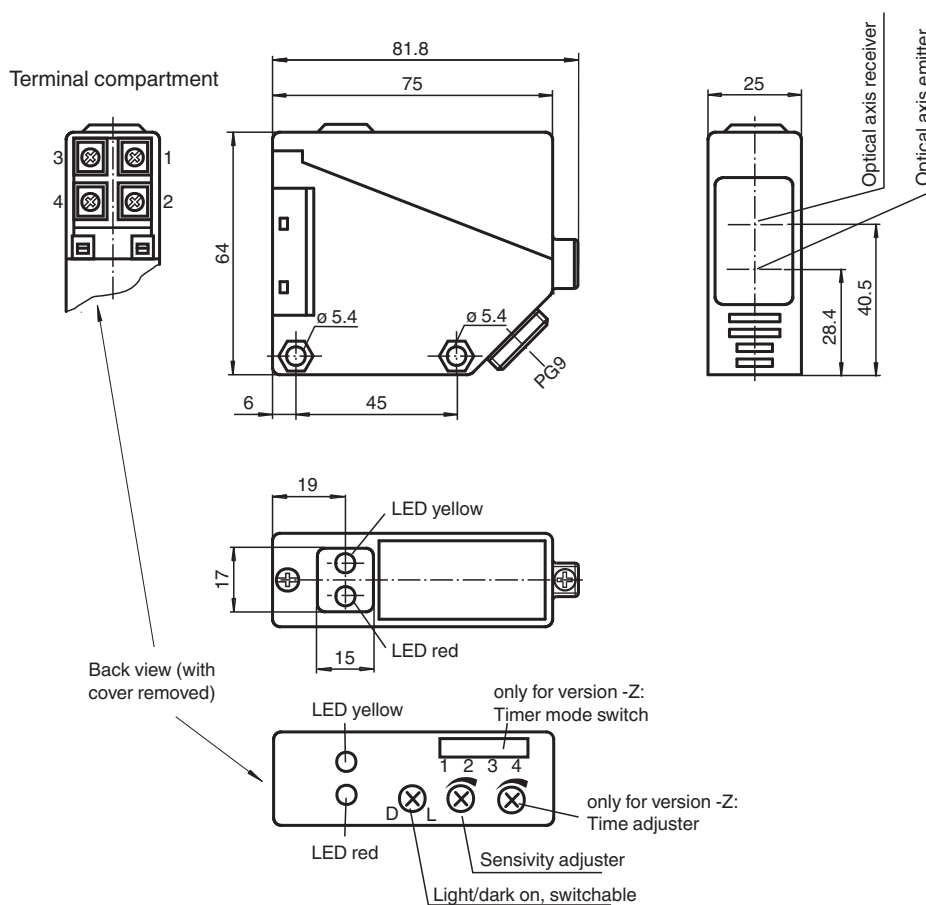


- Visible red light
- Light-on/dark-on, switchable
- Degree of protection IP67

Retroreflective sensor without polarization filter



Dimensions



Release date: 2022-08-08 Date of issue: 2022-08-08 Filename: 088812_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

PEPPERL+FUCHS

Technical Data

General specifications

Effective detection range	0 ... 17 m
Reflector distance	0.1 ... 17 m
Threshold detection range	20 m
Reference target	H50 reflector
Light source	LED red
Light type	modulated visible red light
Polarization filter	no
Ambient light limit	IEC / EN 60947-5-2 , 10000 Lux

Functional safety related parameters

MTTF _d	800 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	10 ... 30 V DC
Ripple		10 %
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	≤ 300 ms

Output

Pre-fault indication output		1 NPN, active when falling short of the stability control
Switching type		light/dark on
Signal output		1 NPN output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 200 mA , resistive load
Voltage drop	U _d	≤ 3 V
Switching frequency	f	≤ 300 Hz
Response time		≤ 1.5 ms

Conformity

Product standard	EN 60947-5-2
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Approvals and certificates

EAC conformity	TR CU 020/2011
CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	CE

Ambient conditions

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

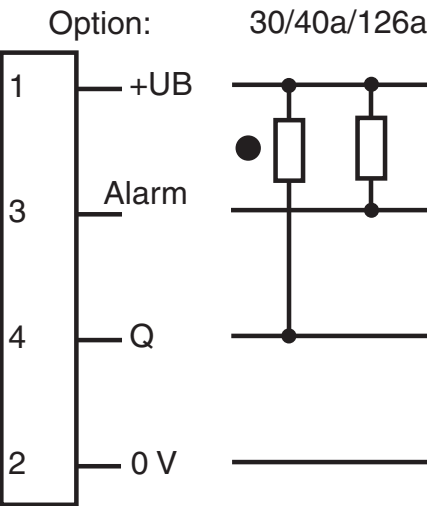
Mechanical specifications

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. 100 g

General information

Scope of delivery	Mounting aid , Reflector
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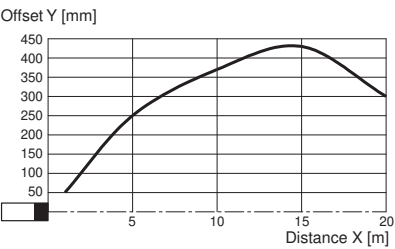
Connection Assignment



○ = Light on
● = Dark on

Characteristic Curve

Characteristic response curve



Permissible distance (offset)
between optical axis and
retro-reflector.

