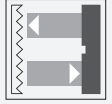


Retroreflective sensor

RLK39-55/31/35/40a/116

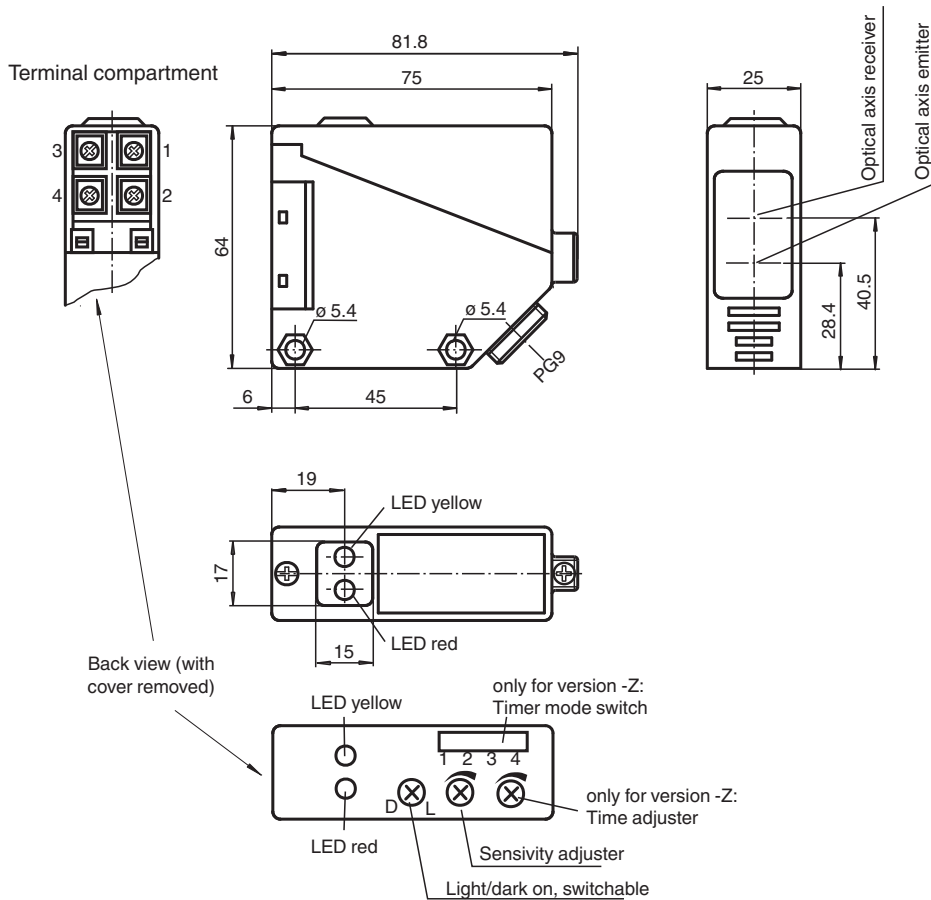


- Visible red light
- Light-on/dark-on, switchable
- Degree of protection IP67

Retroreflective sensor without polarization filter



Dimensions



Technical Data

General specifications

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

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Technical Data

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	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		
Scope of delivery	Mounting aid	

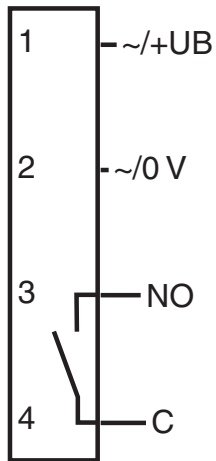
Release date: 2023-12-20 Date of issue: 2023-12-20 Filename: 088814_eng.pdf

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

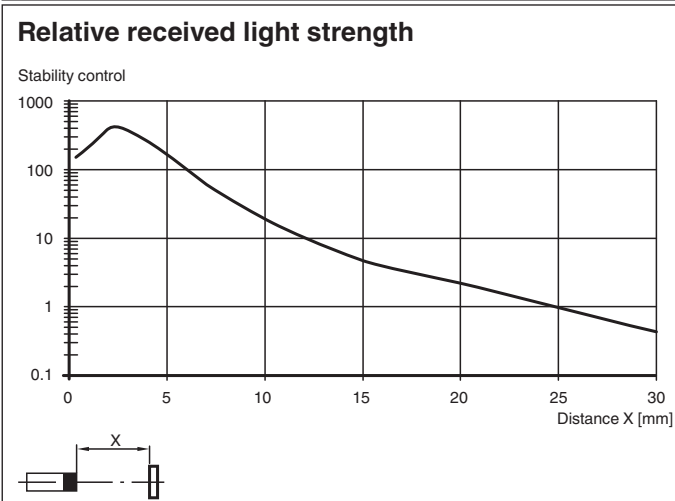
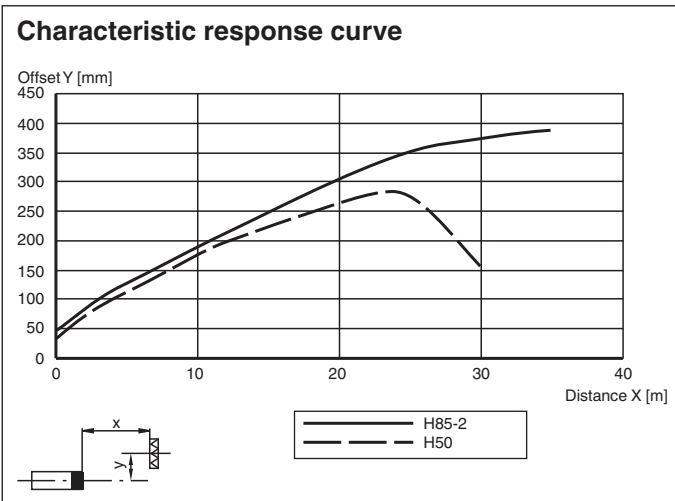
Pepperl+Fuchs Group
www.pepperl-fuchs.comUSA: +1 330 486 0001
fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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Connection Assignment



Characteristic Curve



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