



Model Number

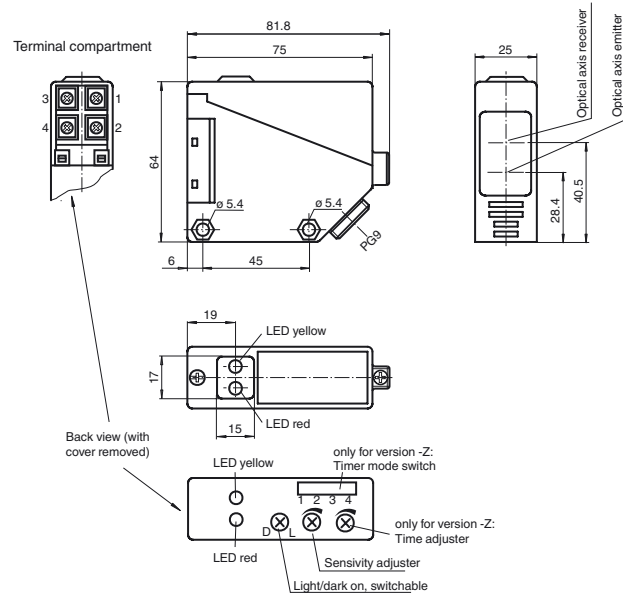
RL39-55/30/35/40a/116/126a

Retroreflective sensor
with terminal compartment

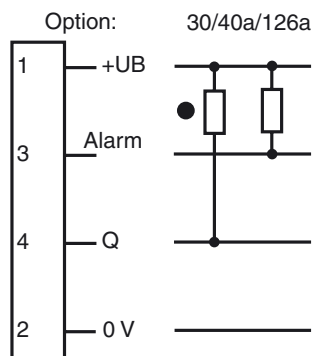
Features

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

Dimensions



Electrical connection



○ = Light on
● = Dark on

**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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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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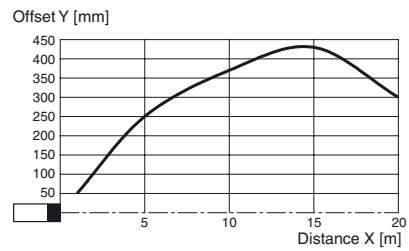
Approvals and certificates

CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	CE



Curves/Diagrams

Characteristic response curve



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

