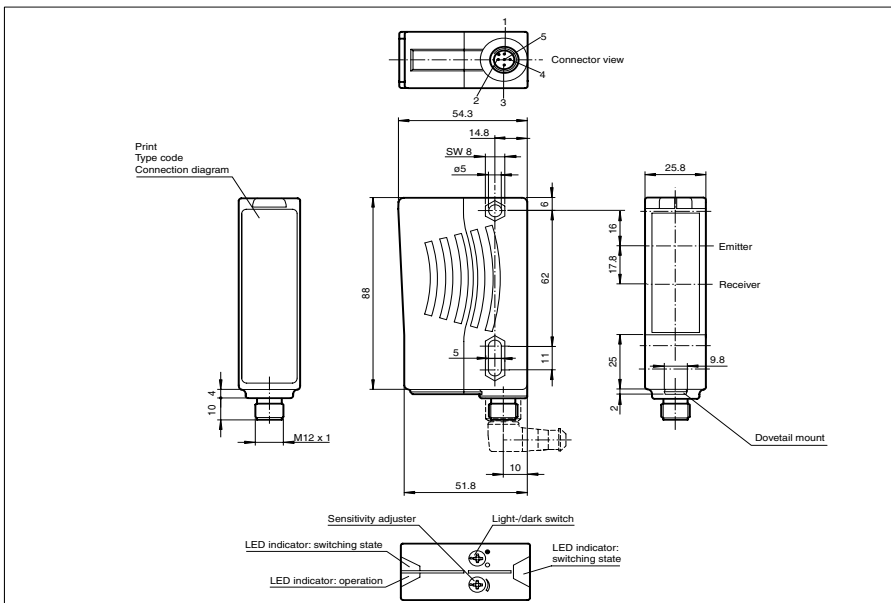




Dimensions



Model Number

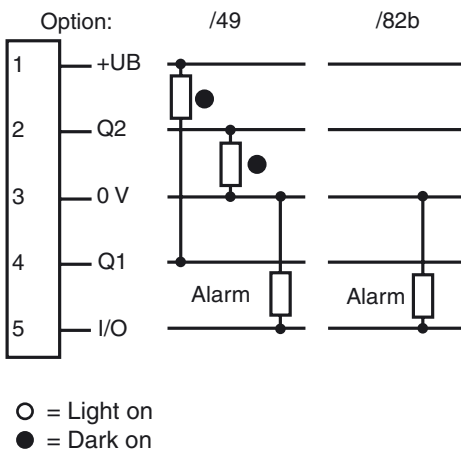
RL28-55-LAS/49/82b/105

Retro-reflective sensor with polarisation filter
with 5-pin, M12 x 1 plastic connector

Features

- Visible red light, pulsed LASER light
- Ultra bright LEDs for power on, stability control and switching state
- Not sensitive to ambient light, even with switched energy saving lamps
- Protection class II

Electrical connection



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Technical data**General specifications**

Effective detection range	0 ... 30 m
Reflector distance	0.3 ... 30 m
Threshold detection range	42 m (with reflector MH82)
Light source	laser diode , 650 nm
Optical power output	< 1 mW
Approvals	CE
Laser class	1 acc. to IEC 60825-1
Transmitter frequency	approx. 6 kHz ... 20 kHz
Pulse duration	approx. 4.5 μ s
Reference target	MH82 reflector
Light type	red, modulated light
Diameter of the light spot	approx. 45 mm at 30 m
Angle of divergence	Emitter: < 0.1 ° Receiver: < 2 °
Ambient light limit	50000 Lux

Indicators/operating means

Operating display	LED green
Function display	2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted
Operating elements	sensitivity adjuster (Adjustment to < 25% of the effective operating range) , Light/dark switch

Electrical specifications

Operating voltage	10 ... 30 V DC
Protection class	II, rated insulation voltage \sim Ü 230 V AC with degree of pollution 1-2 according to IEC 60664-1
Ripple	max. 10 %
No-load supply current I_0	\leq 35 mA

Output

Output of the pre-fault indication	1 pnp, inactive when falling short of the stability control for 10;s immediately inactive if 4 light beam interruptions take place
Switching type	Light/dark ON, switchable
Signal output	1 npn, 1 pnp synchronised-switching, short-circuit proof, protected against reverse polarity , open collectors
Switching voltage	max. 30 V DC
Switching current	max. 200 mA
Voltage drop U_d	\leq 2.5 V DC
Switching frequency f	1000 Hz
Response time	0.5 ms

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	-10 ... 50 °C (263 ... 323 K)
Storage temperature	-20 ... 75 °C (253 ... 348 K)

Mechanical specifications

Protection degree	IP67
Connection	plastic connector M12 x 1, 5-pin
Material	
Housing	Plastic ABS
Optical face	Plastic pane
Mass	80 g

Curves/Diagrams