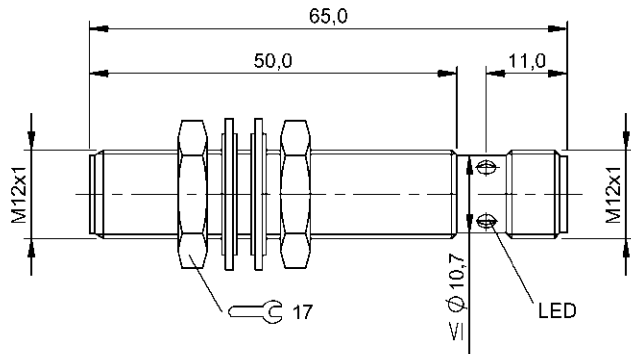


Display/Operation

Power indicator	no
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Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current Im	0 mA
No-load current Io max., damped	12 mA
No-load current Io max., undamped	8 mA
Operating voltage Ub	10...55 VDC
Output resistance Ra	100.0 kOhm + 2D
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	10 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	300 Hz
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	0...60 °C
Contamination scale	3
IP rating	IP67

Functional safety

MTTF (40 °C)	355 a
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Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Brass, nickel-plated
Material sensing surface	LCP

Mechanical data

Dimension	Ø 12 x 65 mm
Installation	quasi-flush
Mounting length	49.50 mm
Size	M12x1

Range/Distance

Assured operating distance Sa	5.8 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	10.0 %
Switching distance marking	■■■■
Temperature drift max. (% of Sr)	20 %
Tolerance Sr	±10 %

Connector Drawings



Wiring Diagrams (Schematic)

