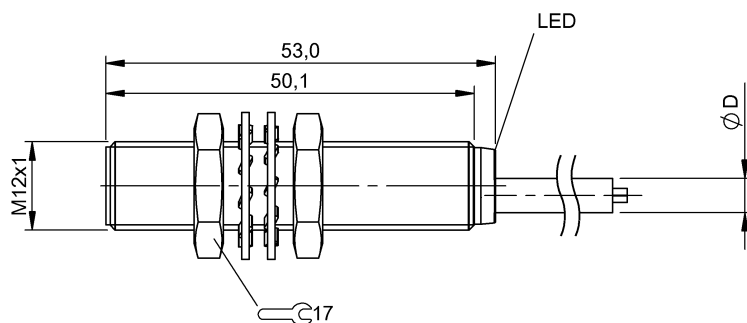




Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.70 mm
Cable length	2 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 2.00 m, PVC
Number of conductors	3
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at U _e	0.5 µF
No-load current I ₀ undamped max.	3 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Polarity reversal protected	yes
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	21 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	15 %
Switching frequency	1000 Hz
Utilization category	DC-13
Voltage drop static max.	3 V

Environmental conditions

Ambient temperature	-25...70 °C
IP rating per IEC 60529	IP68

Functional safety

MTTF (40 °C)	640 a
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General data

Approval/Conformity	cULus CE EAC
Basic standard	IEC 60947-5-2
Trademark	Global

Material

Housing material	Brass
Material jacket	PVC
Material sensing surface	LCP
Surface protection	nickel-free coated

Mechanical data

Dimension	Ø 12 x 53 mm
Installation	for flush mounting
Size	M12x1
Tightening torque	10 Nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

Assured operating distance Sa	3.2 mm
Effective operating distance Sr	4 mm
Rated operating distance Sn	4 mm
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %

Remarks

The sensor is functional again after the overload has been eliminated.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Wiring Diagram

