



Basic features

Approval/Conformity	CE EAC cULus WEEE
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Electrical connection

Cable diameter D	3.00 mm
Cable length L	2 m
Connection type	Cable, 2.00 m, PVC
Number of conductors	3

Electrical data

No-load current I ₀ max., damped	7 mA
No-load current I ₀ max., undamped	2 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm
Protection class	II
Rated insulation voltage U _i	250 V AC
Ready delay t _v max.	25 ms
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	10 %
Switching frequency	5000 Hz

Environmental conditions

Ambient temperature	-25...70 °C
Protection degree	IP68

Functional safety

MTTF (40 °C)	595 a
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Material

Housing material	Brass, Nickel-free coated
Material jacket	PVC
Material sensing surface	PBT
Surface protection	Nickel-free coated

Mechanical data

Dimension	Ø 8 x 50 mm
Installation	for flush mounting
Size	M8x1

Output/Interface

Switching output	PNP normally open (NO)
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Range/Distance

Assured operating distance S _a	1.6 mm
Rated operating distance S _n	2 mm
Real switching distance s _r	2 mm

Remarks

The sensor is functional again after the overload has been eliminated.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams

