



**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 <sub>o max.</sub> , damped	2 mA
No-load current I <sub>o max.</sub> , undamped	7 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	33.0 kOhm
Protection class	II
Rated insulation voltage U <sub>i</sub>	250 V AC
Ready delay t <sub>v max.</sub>	25 ms
Residual current I <sub>r max.</sub>	10 µA
Ripple max. (% of U <sub>e</sub> )	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
Tightening torque	3 Nm

**Output/Interface**

Switching output	PNP normally closed (NC)
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**Range/Distance**

Assured operating distance S <sub>a</sub>	1.6 mm
Rated operating distance S <sub>n</sub>	2 mm
Real switching distance s <sub>r</sub>	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

