

1) Measuring point 2) Sensing surface



Display/Operation

Function indicator	yes
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Electrical connection

Connection	M8x1-Male, 3-pole
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Assured switching field strength Ha	2 kA/m
Hysteresis H max. (% of Hn)	45 %
Load capacitance max. at Ue	1 µF
No-load current Io undamped max.	10 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	Open drain
Polarity reversal protected	yes
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Rated switch field strength Hn	1.2 kA/m
Residual current Ir max.	80 µA
Residual ripple max. (% of Ue)	15 %
Switching frequency	10000 Hz
Turn-off delay toff max.	0.05 ms
Turn-on delay ton max.	0.05 ms
Utilization category	DC -13
Voltage drop static max.	3.1 V

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	3
IP rating	IP67

Functional safety

MTTF (40 °C)	330 a
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General data

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

Material

Housing material	PBT
Material sensing surface	PU

Mechanical data

Dimension	11 x 11 x 32 mm
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Output/Interface

Switching output	PNP normally open (NO)
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Range/Distance

Temp. drift max. (% of Hn)	0.3 %
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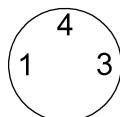
Remarks

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

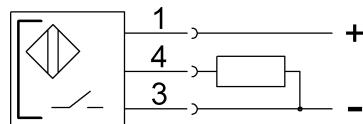
For further information about the MTTF and B10d see MTTF / B10d certificate

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.

Connector view



Wiring Diagram



Diagram

