

1) Sensing surface



Display/Operation

Function indicator	yes
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Electrical connection

Cable diameter D	2.50 mm
Cable length	0.3 m
Connection	M8x1-Male, 3-pole
Connection type	Cable with connector, 0.30 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Assured switching field strength Ha	2 kA/m
Load capacitance max. at Ue	1 µF
No-load current Io max., undamped	5 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 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	7000 Hz
Turn-off delay toff max.	0.07 ms
Turn-on delay ton max.	0.07 ms
Utilization category	DC-13
Voltage drop static max.	2.5 V

Environmental conditions

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

Functional safety

MTTF (40 °C)	520 a
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General data

Application	Optimized response path especially suited for short-stroke cylinders.
Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Scope of delivery	Cable clip for C-slot
Trademark	Global

Material

Housing material	PA 12
Material jacket	PUR

Mechanical data

Dimension	16.8 x 2.9 x 4.5 mm
Tightening torque	0.03 Nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

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

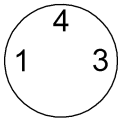
Remarks

The sensor is functional again after the overload has been eliminated.
EMC: Surge resistance
External protection circuit is required. Document 825345, Section 2.
Max. pull force on cable 10 N.

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

