



Basic features

Approval/Conformity	CE cULus WEEE
Base type deviation	Ceramic coating
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.10 mm
Cable length L	0.3 m
Connection	M12x1-Male, 4-pin, A-coded
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

Load capacitance max. at Ue	1 µF
Min. operating current Im	5 mA
Operating voltage Ub	10...30 VDC
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
Ready delay tv max.	50 ms
Residual current Ir max.	600 µA
Ripple max. (% of Ue)	15 %
Switching frequency	1500 Hz
Utilization category	DC -13
Voltage drop static max.	5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Switching output	polarized normally open (NO)
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Material

Housing material	Brass, Nickel-free coated
Material jacket	PUR
Material sensing surface	ceramic coated

Mechanical data

Dimension	Ø 8 x 40 mm
Installation	for flush mounting
Mounting length	40.00 mm
Size	M8x1
Tightening torque	3 Nm

Range/Distance

Assured operating distance Sa	1.4 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Sn: reduced by the coating thickness of 0.2 mm.
 The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams (Schematic)

