

Basic features

Approval/Conformity	CE
	EAC
	WEEE
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	3.70 mm
Cable length L	5 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 5.00 m, PVC
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	no

Electrical data

Load capacitance max. at Ue	0.5 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	20 mA
No-load current I _o max., undamped	12 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	4.7 kOhm + D
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	10 ms
Residual current I _r max.	80 µA
Ripple max. (% of U _e)	15 %
Switching frequency	1500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 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
Protection degree	IP68

Functional safety

MTTF (40 °C)	595 a
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Material

Housing material	Stainless steel
Material jacket	PVC
Material sensing surface	PA 12

Mechanical data

Dimension	Ø 8 x 45 mm
Installation	for flush mounting
Pressure rating max.	10 bar
Pressure rating, note	oil pressure rated
Size	M8x1
Tightening torque	5 Nm ±10 %/10 Nm ±10 %

Output/Interface

Switching output	PNP normally open (NO)
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Range/Distance

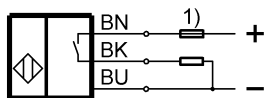
Assured operating distance Sa	1 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.2 mm
Real switching distance sr	1.2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	3 %
Tolerance Sr	±10 %

Remarks

Recommendation: After a short circuit check the device for proper function.
 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



1) For SCP see electrical data