

Basic features

Approval/Conformity	CE UKCA WEEE
Base type deviation	Ta, cable
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	8.00 mm
Cable length L	15 m
Conductor cross-section	0.75 mm ²
Connection type	Cable, 15.00 m, Silicone
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	no

Electrical data

Load capacitance max. at Ue	0.15 μ F
Min. operating current I _m	0 mA
No-load current I _o max., damped	15 mA
No-load current I _o max., undamped	15 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	6.2 k Ω m + D/10.0 k Ω m + D
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	400 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 μ A
Ripple max. (% of U _e)	15 %
Switching frequency	300 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...120 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67, IP60 at cable exit

Functional safety

MTTF (40 °C)	1255 a
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Interface

Switching output	PNP normally open/normally closed (NO/NC)
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Material

Housing material	Brass, nickel-plated
Material jacket	Silicone
Material sensing surface	PBT

Mechanical data

Dimension	Ø 30 x 91.5 mm
Installation	for flush mounting
Mounting length	53.00 mm
Size	M30x1.5
Tightening torque	70 Nm

Range/Distance

Assured operating distance Sa	8 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	10 mm
Real switching distance sr	10 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	5 %
Tolerance Sr	±10 %

Remarks

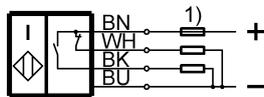
$T_a \geq 70 \text{ °C} \dots \leq 120 \text{ °C}$: $l_e = 400 - 5 \times (T_a - 70)$.

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 (Schematic)



1) For SCP see electrical data