



Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.60 mm
Cable length L	3 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 3.00 m, PVC
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Min. operating current I _m	5 mA
Operating voltage U _b	20...250 VDC/20...250 VAC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	250 mA
Rated operating voltage U _e AC	110 V
Rated short circuit current	100 A
Ready delay t _v max.	100 ms
Residual current I _r max.	1700 µA
Switching frequency	100 Hz
Utilization category	AC-140 DC -13
Voltage drop static max.	11 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	IP67

Functional safety

MTTF (40 °C)	245 a
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Material

Housing material	Brass
Material jacket	PVC
Material sensing surface	PA 12
Surface protection	nickel plated

Mechanical data

Dimension	Ø 30 x 61.5 mm
Installation	non-flush
Size	M30x1.5
Tightening torque	70 Nm

Output/Interface

Switching output	Normally open (NO)
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Range/Distance

Assured operating distance Sa	12.1 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	15 mm
Real switching distance sr	15 mm
Repeat accuracy max. (% of Sr)	10.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Once the overload has been eliminated, interrupt operating voltage Vs for approx. 2 sec.

$T_a \geq 25 \text{ °C} \dots \leq 70 \text{ °C}$: $I_e = 250 - 1.6 \times (T_a - 25)$

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

