



**Basic features**

Approval/Conformity	cULus CE 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	5 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 5.00 m, PUR
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

**Electrical data**

Min. operating current I <sub>m</sub>	5 mA
Operating voltage U <sub>b</sub>	20...250 VDC/20...250 VAC
Protection class	II
Rated insulation voltage U <sub>i</sub>	250 V AC
Rated operating current I <sub>e</sub>	250 mA
Rated operating voltage U <sub>e</sub> AC	110 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	100 ms
Residual current I <sub>r</sub> max.	1700 µA
Switching frequency	150 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	PUR
Material sensing surface	PA 12
Surface protection	nickel plated

## Mechanical data

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

## Output/Interface

Switching output	Normally open (NO)
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## Range/Distance

Assured operating distance Sa	8.1 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)	10.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

## Remarks

$T_a \geq 25 \text{ °C} \dots \leq 70 \text{ °C}$ :  $I_e = 250 - 1.56 \times (T_a - 25)$

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

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

