



1) Sensing surface



## Display/Operation

Function indicator	no
Power indicator	no

## Electrical connection

Cable diameter D	7.00 mm
Cable length	3 m
Conductor cross-section	0.75 mm <sup>2</sup>
Connection type	Cable, 3.00 m, Silicone
Number of conductors	3
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

Contamination scale	3
Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	0.15 µF
No-load current I <sub>o</sub> undamped max.	8 mA
Output resistance R <sub>a</sub>	4.7 kOhm + D
Polarity reversal protected	yes
Rated insulation voltage U <sub>i</sub>	75 V DC

Rated operating current I <sub>e</sub>	25 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	10 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I <sub>r</sub> max.	80 µA
Residual ripple max. (% of U <sub>e</sub> )	15 %
Switching frequency	500 Hz
Utilization category	DC-13
Voltage drop static max.	2.5 V

## Environmental conditions

Ambient temperature	-25...100 °C
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 per IEC 60529	IP65 Cable exit IP60

## Functional safety

MTTF (40 °C)	930 a
--------------	-------

## General data

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

## Material

Housing material	Aluminum
Material jacket	Silicone
Material sensing surface	PBT

## Mechanical data

Dimension	50 x 25 x 10 mm
-----------	-----------------

Installation for flush mounting

## Output/Interface

Switching output PNP Normally open (NO)

## Range/Distance

Assured operating distance Sa	4 mm
Effective operating distance Sr	5 mm
Rated operating distance Sn	5 mm
Temperature drift max. (% of Sr)	10 %

For further information on MTTf/B10d, please refer to the MTTf / B10d Certificate.

Specification of the MTTf value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

## Wiring Diagram

