



## Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Trademark	Global

## Display/Operation

Function indicator	yes
Power indicator	no

## Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current I <sub>m</sub>	5 mA
Operating voltage U <sub>b</sub>	10...36 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	100 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	50 ms
Residual current I <sub>r</sub> max.	600 µA
Ripple max. (% of U <sub>e</sub> )	15 %
Switching frequency	600 Hz
Utilization category	DC -13
Voltage drop static max.	4.2 V

## Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

## Functional safety

MTTF (40 °C)	315 a
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## Interface

Switching output	polarized normally open (NO)
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## Material

Housing material	Brass, Nickel-free coated
Material sensing surface	PA 12

## Mechanical data

Dimension	Ø 18 x 50 mm
Installation	for flush mounting
Mounting length	35.00 mm
Size	M18x1
Tightening torque	25 Nm

## Range/Distance

Assured operating distance Sa	5.6 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	7 mm
Real switching distance sr	7 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

## Remarks

The sensor is functional again after the overload has been eliminated.  
 Specify maximum attainable switching frequency (not per IEC 60947-5-2)  
 Flush: See installation instructions for inductive sensors with extended range 825357.  
 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.

## Connector Drawings



## Wiring Diagrams (Schematic)

