



## Display/Operation

Function indicator	yes
Power indicator	no

## Electrical connection

Connection	M12x1-Male, 4-pole, 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
Operating voltage Ub	10...36 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	50 ms
Residual current Ir max.	600 µA
Ripple max. (% of Ue)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	4 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
IP rating	IP67

## Functional safety

MTTF (40 °C)	315 a
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## General data

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

## Material

Housing material	Brass
Material sensing surface	PA 12
Surface protection	nickel-free coated

## Mechanical data

Dimension	Ø 30 x 50 mm
Installation	for flush mounting
Size	M30x1.5
Tightening torque	70 Nm

## Output/Interface

Switching output	polarized normally open (NO)
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## Range/Distance

Assured operating distance Sao	12 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	15 mm
Real switching distance sr	15 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.  
Shielded: See installation instructions for inductive sensors with extended range 825357.  
Specify maximum attainable switching frequency (not per IEC 60947-5-2)

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 view



## Wiring Diagram

