



## Basic features

<b>Application</b>	Flexible mounting Switching distances > 20 mm possible
<b>Approval/Conformity</b>	cULus CE UKCA WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Magnetic field sensor

## Display/Operation

<b>Function indicator</b>	yes
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## Electrical connection

<b>Cable</b>	PUR, 3 m
<b>Cable diameter D</b>	3.10 mm
<b>Conductor cross-section</b>	0.14 mm <sup>2</sup>
<b>Number of conductors</b>	3
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	yes
<b>Short-circuit protection</b>	yes

## Electrical data

<b>Assured switching field strength Ha</b>	2 kA/m
<b>Load capacitance max. at Ue</b>	1 µF
<b>No-load current Io max., undamped</b>	10 mA
<b>Operating voltage Ub</b>	10...30 VDC
<b>Output resistance Ra</b>	Open drain
<b>Rated insulation voltage Ui</b>	75 V DC
<b>Rated operating current Ie</b>	200 mA
<b>Rated operating voltage Ue DC</b>	24 V
<b>Rated short circuit current</b>	100 A
<b>Rated switch field strength Hn</b>	1.2 kA/m
<b>Residual current Ir max.</b>	80 µA
<b>Ripple max. (% of Ue)</b>	15 %
<b>Switching frequency</b>	10000 Hz
<b>Turn-off delay toff max.</b>	0.05 ms
<b>Turn-on delay ton max.</b>	0.05 ms
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	3.1 V

## Environmental conditions

<b>Ambient temperature</b>	-25...85 °C
<b>Contamination scale</b>	3
<b>EN 60068-2-27, Shock</b>	Half-sinus, 30 gn, 11 ms
<b>EN 60068-2-6, Vibration</b>	55 Hz, amplitude 1 mm, 3x30 min
<b>ESD</b>	4A(8KV)
<b>Emission</b>	Group 1, Class B
<b>IP rating</b>	IP67

## Functional safety

<b>MTTF (40 °C)</b>	330 a
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**Interface**

**Switching output** PNP normally open (NO)

**Material**

**Housing material** Brass, nickel-plated  
**Material jacket** PUR  
**Material sensing surface** PBTP  
**Surface protection** nickel-plated

**Mechanical data**

**Dimension** Ø 6.5 x 30.5 mm  
**Mounting part** Clamps  
**Size** D6.5

**Remarks**

The sensor is functional again after the overload has been eliminated.  
 The switching distance depends on the magnet used. Switching distances of >20 mm can be achieved.  
 EMC: Surge resistance  
 External protection circuit is required. Document 825345, Section 2.  
 UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.  
 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**

**Technical Drawings**

Temperature (°C)	Maximum switching current (I <sub>e</sub> )
0	200
25	200
85	157