

Basic features

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

Display/Operation

Function indicator	yes
--------------------	-----

Electrical connection

Cable	PUR, 3.00 m
Cable diameter D	3.10 mm
Conductor cross-section	0.14 mm ²
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Assured switching field strength Ha	2 kA/m
Load capacitance max. at Ue	1 µF
No-load current I _o max., undamped	10 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	Open drain
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Rated switch field strength H _n	1.2 kA/m
Residual current I _r max.	80 µA
Ripple max. (% of U _e)	15 %
Switching frequency	10000 Hz
Turn-off delay t _{off} max.	0.05 ms
Turn-on delay t _{on} max.	0.05 ms
Utilization category	DC -13
Voltage drop static max.	3.1 V

Environmental conditions

Ambient temperature	-25...85 °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
ESD	4A(8KV)
Emission	Group 1, Class B
Protection degree	IP67

Functional safety

MTTF (40 °C)	330 a
--------------	-------

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	Clamps
Size	D6.5

Output/Interface

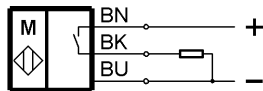
Switching output	PNP normally open (NO)
------------------	------------------------

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.
 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

