



Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-6
Principle of operation	Inductive sensor

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	3.40 mm
Cable length L	3 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 3.00 m, PVC
Number of conductors	2
Polarity reversal protected	to 9 V

Electrical data

Current consumption max., damped	4 mA
Current consumption min., undamped	6 mA
Internal capacitance Ci max.	30 nF
Internal inductance Li max.	1 nH
Operating voltage Ub	7.7...9 VDC
Permiss. series resistance Rv	550...1100 Ohm
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	8.2 V
Rated series resistance Rv	1000 Ohm
Ready delay tv max.	10 ms
Ripple max. (% of Ue)	10 %
Switching frequency	2000 Hz
Utilization category	DC -13

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)	9720 a
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Interface

Interface	NAMUR
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Material

Housing material	Stainless steel
Material jacket	PVC
Material sensing surface	PBT

Mechanical data

Dimension	Ø 5 x 24,5 mm
Installation	for flush mounting
Mounting length	20,50 mm
Size	M5x0,5
Tightening torque	0,5 Nm

Range/Distance

Assured operating distance Sa	0,65 mm
Rated operating distance Sn	0,8 mm
Real switching distance sr	0,8 mm
Repeat accuracy max. (% of Sr)	5,0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Effective operating distance measured at 1,55 mA.
Operate only with suitable approved switching amplifier.
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 (Schematic)

