

### Basic features

Approval/Conformity	CE WEEE
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### Electrical connection

Cable diameter D	3.70 mm
Cable length L	5 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 5.00 m, PTFE
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

No-load current I <sub>0</sub> max., damped	7 mA
No-load current I <sub>0</sub> max., undamped	7 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Ready delay t <sub>v</sub> max.	160 ms
Residual current I <sub>r</sub> max.	20 µA
Ripple max. (% of U <sub>e</sub> )	10 %
Switching frequency	200 Hz
Voltage drop static max.	2.5 V

### Environmental conditions

Ambient temperature	-25...160 °C
IP rating	IP68

### Functional safety

MTTF (40 °C)	1900 a
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### Interface

Switching output	PNP normally open (NO)
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### Material

Housing material	Stainless steel
Material jacket	PTFE, FEP
Material sensing surface	PEEK

### Mechanical data

Dimension	Ø 30 x 110 mm
Installation	non-flush
Size	M30x1.5
Tightening torque	25 Nm

### Range/Distance

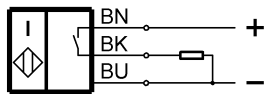
Assured operating distance S <sub>a</sub>	12.2 mm
Hysteresis H max. (% of S <sub>r</sub> )	10.0 %
Rated operating distance S <sub>n</sub>	15 mm
Real switching distance s <sub>r</sub>	15 mm
Repeat accuracy max. (% of S <sub>r</sub> )	5.0 %
Temperature drift max. (% of S <sub>r</sub> )	15 %
Tolerance S <sub>r</sub>	±10 %

## Remarks

Installation instructions for ultra-high temperature rated inductive sensors 939234.  
The sensor is functional again after the overload has been eliminated.  
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

