

### Basic features

Approval/Conformity	CE UKCA WEEE
---------------------	--------------------

### Electrical connection

Cable diameter D	3.70 mm
Cable length L	2 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 2.00 m, PTFE
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

No-load current I <sub>o</sub> max., damped	7 mA
No-load current I <sub>o</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
--------------	--------

### Interface

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

### Material

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

### Mechanical data

Dimension	Ø 30 x 110 mm
Installation	non-flush
Mounting length	64.50 mm
Size	M30x1.5
Tightening torque	25 Nm

### Range/Distance

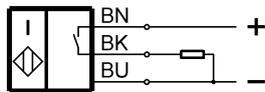
Assured operating distance S <sub>a</sub>	8.1 mm
Hysteresis H max. (% of S <sub>r</sub> )	10.0 %
Rated operating distance S <sub>n</sub>	15 mm
Real switching distance s <sub>r</sub>	15 mm
Repeat accuracy max. (% of S <sub>r</sub> )	5.0 %
Temperature drift max. (% of S <sub>r</sub> )	15 %
Tolerance S <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 (Schematic)



Technical Drawings

