

### Basic features

|                     |                   |
|---------------------|-------------------|
| Approval/Conformity | CE<br>EAC<br>WEEE |
|---------------------|-------------------|

### 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 |
| Protection degree   | IP68         |

### Functional safety

|              |        |
|--------------|--------|
| MTTF (40 °C) | 1900 a |
|--------------|--------|

### Material

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

### Mechanical data

|                   |                    |
|-------------------|--------------------|
| Dimension         | Ø 30 x 100 mm      |
| Installation      | for flush mounting |
| Size              | M30x1.5            |
| Tightening torque | 25 Nm              |

### Output/Interface

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

### Range/Distance

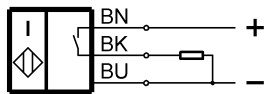
|   |        |
|---|--------|
| Assured operating distance S <sub>a</sub>     | 8.1 mm |
| Hysteresis H max. (% of S <sub>r</sub> )      | 10.0 % |
| Rated operating distance S <sub>n</sub>       | 10 mm  |
| Real switching distance s <sub>r</sub>        | 10 mm  |
| Repeat accuracy max. (% of S <sub>r</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

