



1) O-Ring with thrust ring



**Basic features**

|                            |                             |
|----------------------------|-----------------------------|
| <b>Approval/Conformity</b> | CE<br>UKCA<br>cULus<br>WEEE |
| <b>Basic standard</b>      | IEC 60947-5-2               |

**Display/Operation**

|                           |    |
|---------------------------|----|
| <b>Function indicator</b> | no |
| <b>Power indicator</b>    | no |

**Electrical connection**

|  |                            |
|--|----------------------------|
| <b>Connection</b>                        | M12x1-Male, 4-pin, A-coded |
| <b>Polarity reversal protected</b>       | yes                        |
| <b>Protection against device mix-ups</b> | yes                        |
| <b>Short-circuit protection</b>          | yes                        |

**Electrical data**

|   |                |
|---|----------------|
| <b>Load capacitance max. at Ue</b>                  | 0.5 µF         |
| <b>Min. operating current I<sub>m</sub></b>         | 0 mA           |
| <b>No-load current I<sub>o</sub> max., damped</b>   | 8 mA           |
| <b>No-load current I<sub>o</sub> max., undamped</b> | 8 mA           |
| <b>Operating voltage U<sub>b</sub></b>              | 10...30 VDC    |
| <b>Output resistance R<sub>a</sub></b>              | 33.0 kOhm + 2D |
| <b>Rated insulation voltage U<sub>i</sub></b>       | 75 V DC        |
| <b>Rated operating current I<sub>e</sub></b>        | 200 mA         |
| <b>Rated operating voltage U<sub>e</sub> DC</b>     | 24 V           |
| <b>Rated short circuit current</b>                  | 100 A          |
| <b>Ready delay t<sub>v</sub> max.</b>               | 20 ms          |
| <b>Residual current I<sub>r</sub> max.</b>          | 10 µA          |
| <b>Ripple max. (% of U<sub>e</sub>)</b>             | 15 %           |
| <b>Switching frequency</b>                          | 400 Hz         |
| <b>Utilization category</b>                         | DC -13         |
| <b>Voltage drop static max.</b>                     | 2.5 V          |

**Environmental conditions**

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Ambient temperature</b>     | -25...90 °C                           |
| <b>Contamination scale</b>     | 3                                     |
| <b>EN 60068-2-27, Shock</b>    | Half-sinus, 30 g <sub>n</sub> , 11 ms |
| <b>EN 60068-2-6, Vibration</b> | 55 Hz, amplitude 1 mm, 3x30 min       |
| <b>IP rating</b>               | IP68                                  |

**Functional safety**

|                     |       |
|---------------------|-------|
| <b>MTTF (40 °C)</b> | 500 a |
|---------------------|-------|

Inductive Sensors  
**BHS B265V-PSD25-S04-003**  
Order Code: BHS0062



**Interface**

Switching output PNP normally open (NO)

**Material**

Housing material 1.4104 stainless steel  
Material sensing surface Ceramic  
Support ring material PTFE

**Range/Distance**

Assured operating distance Sa 2 mm  
Hysteresis H max. (% of Sr) 15.0 %  
Rated operating distance Sn 2.5 mm  
Real switching distance sr 2.5 mm  
Repeat accuracy max. (% of Sr) 5.0 %  
Temperature drift max. (% of Sr) 15 %  
Tolerance Sr ±10 %

**Mechanical data**

Dimension Ø 12 x 56 mm  
Installation for flush mounting  
Mounting part M12x1  
Pressure rating max. 500 bar  
Pressure rating, note oil pressure rated  
Sealing ring, size 6.75 x 1.78 mm  
Size M12x1  
Tightening torque 15 Nm ±10 %

**Remarks**

Installation Instructions 614804

The sensor is functional again after the overload has been eliminated.

$I_e [mA] = 200 - 2.2 \times (T_a - 75)$  at  $T_a [°C] + 75 \dots + 90$

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.

**Connector Drawings**



**Wiring Diagrams**

