



1) O-Ring with thrust ring



**Basic features**

|                     |               |
|---------------------|---------------|
| Approval/Conformity | CE            |
|                     | UKCA          |
|                     | WEEE          |
| Basic standard      | IEC 60947-5-2 |

**Display/Operation**

|                    |    |
|--------------------|----|
| Function indicator | no |
| Power indicator    | no |

**Electrical connection**

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

**Electrical data**

|                                   |             |
|-----------------------------------|-------------|
| Load capacitance max. at Ue       | 1 µF        |
| Min. operating current Im         | 0 mA        |
| No-load current Io max., damped   | 8 mA        |
| No-load current Io max., undamped | 3 mA        |
| Operating voltage Ub              | 10...30 VDC |
| Output resistance Ra              | 150.0 kOhm  |
| Rated insulation voltage Ui       | 75 V DC     |
| Rated operating current Ie        | 200 mA      |
| Rated operating voltage Ue DC     | 24 V        |
| Rated short circuit current       | 100 A       |
| Ready delay tv max.               | 50 ms       |
| Residual current Ir max.          | 10 µA       |
| Ripple max. (% of Ue)             | 15 %        |
| Switching frequency               | 2000 Hz     |
| Utilization category              | DC -13      |
| Voltage drop static max.          | 2.1 V       |

**Environmental conditions**

|                         |                                 |
|-------------------------|---------------------------------|
| Ambient temperature     | -25...80 °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               | IP68                            |

**Functional safety**

|              |       |
|--------------|-------|
| MTTF (40 °C) | 855 a |
|--------------|-------|

Inductive Sensors  
**BES 516-300-S260-S4-D**  
Order Code: BHS0030

**BALLUFF**

**Interface**

Switching output PNP normally open (NO)

**Material**

Housing material Stainless steel  
Material sensing surface EP  
Support ring material PTFE

**Range/Distance**

Assured operating distance Sa 1.2 mm  
Hysteresis H max. (% of Sr) 15.0 %  
Rated operating distance Sn 1.5 mm  
Real switching distance sr 1.5 mm  
Repeat accuracy max. (% of Sr) 5.0 %  
Temperature drift max. (% of Sr) 10 %  
Tolerance Sr ±10 %

**Mechanical data**

Dimension Ø 10 x 37 mm  
Installation for flush mounting  
Mounting part 2x cylinder head screw ISO 4762  
M5x25  
Pressure rating max. 350 bar  
Pressure rating, note oil pressure rated  
Sealing ring, size 5.85 x 2.4 mm  
Size D10.0

**Remarks**

Installation Instructions 614804

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.

**Connector Drawings**



**Wiring Diagrams**

