



1) O-Ring with thrust ring



**Basic features**

<b>Approval/Conformity</b>	CE UKCA cULus EAC 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 Im</b>	0 mA
<b>No-load current Io max., damped</b>	8 mA
<b>No-load current Io max., undamped</b>	8 mA
<b>Operating voltage Ub</b>	10...30 VDC
<b>Output resistance Ra</b>	33.0 kOhm + 2D
<b>Rated insulation voltage Ui</b>	75 V DC
<b>Rated operating current Ie</b>	200 mA
<b>Rated operating voltage Ue DC</b>	24 V
<b>Rated short circuit current</b>	100 A
<b>Ready delay tv max.</b>	20 ms
<b>Residual current Ir max.</b>	10 µA
<b>Ripple max. (% of Ue)</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 gn, 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
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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  $T_a [^{\circ}C] + 75 \dots + 90$

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**

