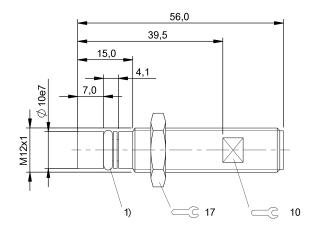
# Inductive Sensors BHS B265V-PSD25-S04-003 Order Code: BHS0062

# BALLUFF



1) O-Ring with thrust ring



#### **Basic features**

Approval/Conformity	CE UKCA cULus EAC WEEE
Basic standard Display/Operation	IEC 60947-5-2
Function indicator Power indicator	no 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	0.5 μF
Min. operating current Im	0 mA
No-load current lo max., damped	8 mA
No-load current lo max., undamped	8 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + 2D
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	20 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

## **Environmental conditions**

Ambient temperature	-2590 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68

#### **Functional safety**

MTTF (40 °C)

500 a

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BHS0062\_0.6\_2022-07-29

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#### Interface

Switching output	PNP normally open (NO)	
Material		
Housing material	1.4104 stainless steel	
Material sensing surface	Ceramic	
Support ring material	PTFE	
Mechanical data		
Dimension	Ø 12 x 56 mm	
Installation	for flush mounting	
Mounting part	M12x1	
Pressure rating max.	500 bar	

oil pressure rated 6.75 × 1.78 mm

15 Nm ±10 %

M12x1

	stance

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 %

#### Remarks

Size

Pressure rating, note

Sealing ring, size

**Tightening torque** 

Installation Instructions 614804

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

le [mA] = 200 - 2.2x(Ta-75) at Ta [°C] +75...+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

