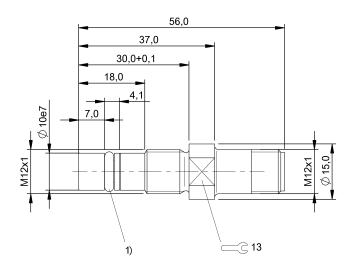
BHS B400V-PSD25-S04-003 **Order Code: BHS0065**





1) O-Ring with thrust ring



Display/C	peration
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Function indicator Power indicator no

Electrical connection

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

Electrical data

Load capacitance max. at Ue 0.5 μF Min. operating current Im 0 mA No-load current lo max., damped No-load current lo max., undamped 8 mA 10...30 VDC Operating voltage Ub Output resistance Ra 33.0 kOhm + 2D Rated insulation voltage Ui 75 V DC 200 mA Rated operating current le Rated operating voltage Ue DC 24 V Rated short circuit current 100 A 20 ms Ready delay tv max. Residual current Ir max. $10~\mu A$ Ripple max. (% of Ue) 15 % Switching frequency 400 Hz DC -13 **Utilization category** Voltage drop static max. 2.5 V

Environmental conditions

Ambient temperature -25...90 °C Contamination scale EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

CE

IP rating IP68

Functional safety

MTTF (40 °C) 500 a

General data

Approval/Conformity cULus EAC WEEE Basic standard IEC 60947-5-2 Thrust ring, part number 150229

Material

FPM 80 Gasket, material Housing material Stainless steel (1.4104) Material sensing surface Ceramic PTFE Support ring material

Inductive Sensors

BHS B400V-PSD25-S04-003 **Order Code: BHS0065**



Mechanical data

Dimension	Ø 12 x 56 mm
Installation	for flush mounting
Mounting	M12x1
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, part number	149621
Sealing ring, size	6.75 × 1.78 mm
Size	M12x1
Tightening torque	20 Nm ±10 %

Output/Interface

Switching output	PNP normally open (NO)
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 %

Remarks

Installation Instructions 614804

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

Ie [mA] = 200 - 2.2x(Ta-75) at Ta [°C] +75...+90

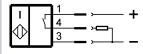
For further information about the MTTF and B10d see MTTF / B10d certificate

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



Tolerance Sr ±10 %

2/2