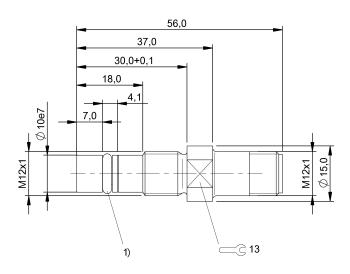
BHS B400V-PSD25-S04-003

Order Code: BHS0065





1) O-Ring with thrust ring









- Basic realures	Basic	features
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Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Inductive sensor
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	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 μΑ
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 _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68
Functional safety	
MTTF (40 °C)	500 a

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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 length 12.00 mm Mounting part M12x1 Pressure rating max. 500 bar Pressure rating, note oil pressure rated 6.75 × 1.78 mm Sealing ring, size M12x1 Tightening torque 20 Nm ±10 %

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.

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 (Schematic)

