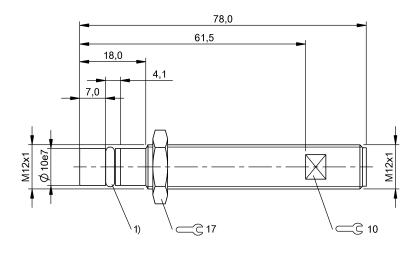
Inductive Sensors BHS B135V-PSD15-S04 Order Code: BHS005R





1) O-Ring with thrust ring



Basic features

Approval/Conformity	CE
	UKCA
	cULus
	EAC
	WEEE

Electrical connection

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

Electrical data

Load capacitance max. at Ue	0.5 μF
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
Ready delay tv max.	20 ms
Residual current Ir max.	10 µA
Switching frequency	400 Hz
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature EN 60068-2-27, Shock EN 60068-2-6, Vibration IP rating -25...80 °C Half-sinus, 30 g_n, 11 ms 55 Hz, amplitude 1 mm, 3x30 min IP68

Functional safety	
MTTF (40 °C)	500 a
Interface	
Interface	
Switching output	PNP normally open (NO)
Material	
Housing material	Stainless steel
Material sensing surface	Ceramic
Support ring material	PTFE
Mechanical data	
Dimension	Ø 12 x 78 mm
Installation	for flush mounting
Mounting part	M12x1
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, size	6.75 × 1.78 mm
Tightening torque	15 Nm ±10 %
Range/Distance	
Assured operating distance Sa	1.21 mm
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Temperature drift max. (% of Sr)	15 %

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Remarks

The sensor is functional again after the overload has been eliminated. Installation Instructions 614804 $Ie \ [mA] = 200 - 2.2x(Ta-75) \ at Ta \ [^oC] +75...+120$

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

