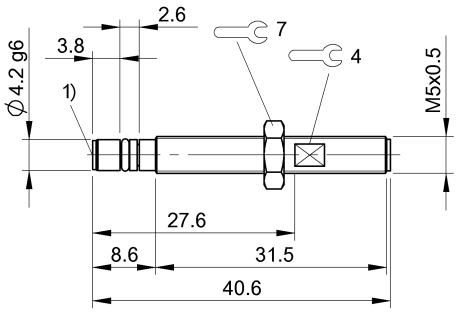
Inductive Sensors

BHS G403N-PSD10-S26
Order Code: BHS006N



1) Sensing surface

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Connection	M5x0.5-Male
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.4 µF
Min. operating current Im	10 mA
No-load current Io max., damped	10 mA
No-load current Io max., undamped	7 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	Open collector
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	25 ms
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...80 °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

Interface

Switching output	PNP normally open (NO)

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Material

Gasket, material	NBR 70
Housing material	Stainless steel
Material sensing surface	Ceramic
Support ring material	PTFE

Mechanical data

Dimension	Ø 5 x 40.5 mm
Installation	for flush mounting
Mounting part	M5x0.5
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, size	2.35 × 1 mm
Size	M5x0.5
Tightening torque	1 Nm ±10 %

Range/Distance

Assured operating distance Sa	0.8 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1 mm
Real switching distance sr	1 mm
Repeat accuracy max. (% of Sr)	10.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Installation Instructions 861458
The sensor is functional again after the overload has been eliminated.

Connector Drawings

Wiring Diagrams