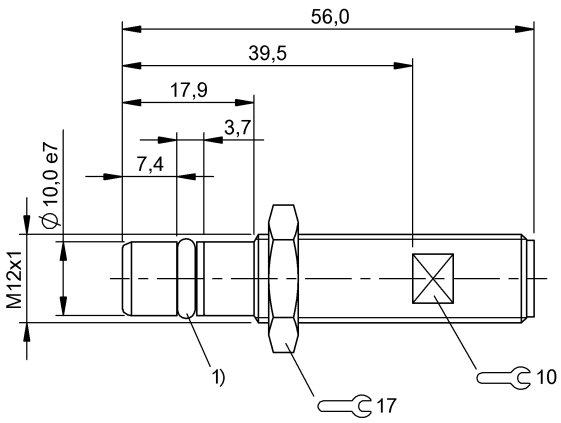
Inductive Sensors

BES 516-300-S266-S4
Order Code: BHS0034



1) O-Ring with thrust ring

Basic features

Approval/Conformity	CE EAC WEEE
Basic standard	EN 60079-0 EN 60079-11 IEC 60079-0 IEC 60079-11 IEC 60947-5-6
Ex marking	ATEX: II 2G Ex ia IIC T6 Gb IECEx: EX ia IIC T6 Gb
Thrust ring, part number	705918

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	to 9 V

Electrical data

Current consumption max., damped	1 mA
Current consumption min., undamped	4 mA
Internal capacitance Ci max.	30 nF
Internal inductance Li max.	0.5 nH
Operating voltage Ub	7.7...9 VDC
Permiss. series resistance Rv	550...1100 Ohms
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	8.2 V
Rated series resistance Rv	1000 Ohm
Ready delay tv max.	10 ms
Switching frequency	1000 Hz
Utilization category	DC -12

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP68

Material

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

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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	631753
Sealing ring, size	5.3 × 2.4 mm
Size	M12x1
Tightening torque	15 Nm ±10 %

Output/Interface

Interface	NAMUR

Range/Distance

Assured operating distance Sa	1.1 mm
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	-10 %/20 %
Tolerance Sr	-20 %

Remarks

Use only in approved intrinsically safe circuits with max. values Ui = 15 V, Ii = 50 mA, Pi = 120 mW.
Effective operating distance measured at 1.55 mA.
The operating guide document number 897278 must be observed.

Connector Drawings

Wiring Diagrams