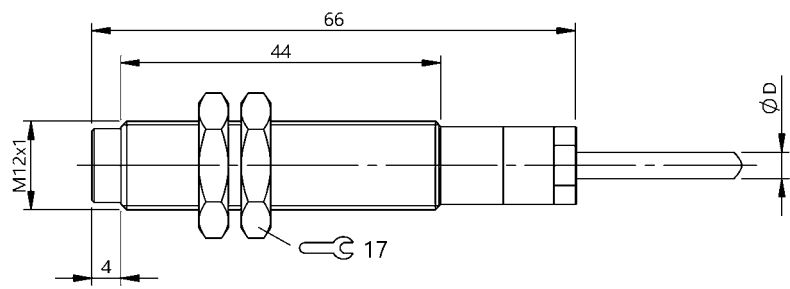


Inductive Sensors
BES M12MG2-GNX40F-BT02-EXB
Order Code: BES05NN



Basic features

Approval/Conformity	CE IECEX ATEX WEEE
Basic standard	EN 60079-0 EN 60079-11 IEC 60947-5-6
Ex marking	ATEX: Ex II 1G Ex ia IIC T6 Ga Ex II 1D Ex ia IIIC T65 °C Da IECEX: Ex ia IIC T6 Ga Ex ia IIIC T65 °C Da

Electrical connection

Conductor cross-section	0.34 mm ²
Connection type	Cable, FEP
Polarity reversal protected	no
Short-circuit protection	no

Electrical data

Current consumption max., damped	1 mA
Operating voltage U _b	7.7...9 VDC
Rated insulation voltage U _i	12.6 V DC
Rated operating voltage U _e DC	8.2 V
Rated series resistance R _v	1000 Ohm

Environmental conditions

Ambient temperature	-20...60 °C, depending on Ex category
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

Functional safety

MTTF (40 °C)	4110 a
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Interface

Interface	NAMUR
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Material

Housing material	Stainless steel
Material jacket	FEP
Material sensing surface	PTFE

Mechanical data

Dimension	Ø 12 x 66 mm
Installation	non-flush
Mounting length	44.00 mm
Size	M12x1
Tightening torque	10 Nm

Range/Distance

Rated operating distance S _n	4 mm
Repeat accuracy max. (% of S _r)	5.0 %
Temperature drift max. (% of S _r)	10 %
Tolerance S _r	±10 %

Wiring Diagrams

