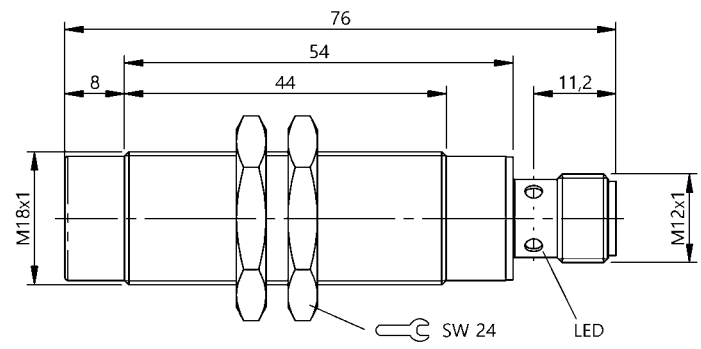


Inductive Sensors
BES M18MH2-GNX80F-S04G-EXC
Order Code: BES05N0



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 T80 °C Da IECEX: Ex ia IIC T6 Ga Ex ia IIIC T80 °C Da

Display/Operation

Power indicator	no
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Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	no
Short-circuit protection	no

Electrical data

Current consumption max., damped	1 mA
Operating voltage Ub	7.7...9 VDC
Rated insulation voltage Ui	12.6 V DC
Rated operating voltage Ue DC	8.2 V
Rated series resistance Rv	1000 Ohm

Environmental conditions

Ambient temperature	-20...60 °C, depending on Ex category
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	4110 a
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Interface

Interface	NAMUR
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Material

Housing material	Brass, nickel-plated
Material sensing surface	PA

Mechanical data

Dimension	Ø 18 x 75 mm
Installation	non-flush
Mounting length	44.00 mm
Size	M18x1
Tightening torque	25 Nm

Range/Distance

Rated operating distance Sn	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Connector Drawings



Wiring Diagrams

