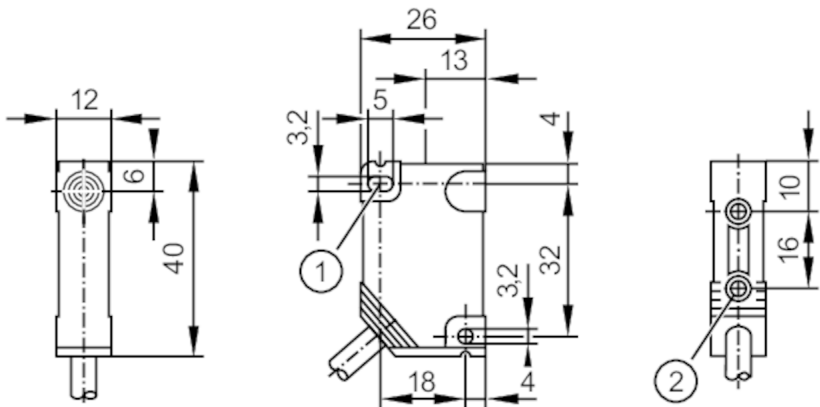




Inductive NAMUR sensor

IN-2002-N/1D/1G/2G



- 1
- threaded bush M3 Depth 5.8 mm
 Tightening torque maximum 1.2 Nm screw fixing class 8.8
 when brass insert in contact with counterpart



Product characteristics		
Electrical design		NAMUR
Output function		normally closed
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	40 x 12 x 26
Electrical data		
Connection to switching amplifiers		yes
Switching amplifiers		connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 mW
Nominal voltage DC	[V]	8.2; (1kΩ)
Supply voltage DC	[V]	7.5...30; (when used outside the hazardous area)
Current consumption	[mA]	< 1; (disabled; conductive: > 2,1)
Protection class		II
Outputs		
Electrical design		NAMUR
Output function		normally closed
Permanent current rating of switching output DC	[mA]	30; (when used outside the hazardous area)
Switching frequency DC	[Hz]	800
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

NN5001



Inductive NAMUR sensor

IN-2002-N/1D/1G/2G

Operating conditions

Ambient temperature	[°C]	-20...80
Protection		IP 67

Tests / approvals

Approval	PTB 01 ATEX 2191; BVS 04 ATEX E 153 X; IECEX BVS 06.0003X	
ATEX marking		II 1G Ex ia IIB T6 Ga Ta -20...70°C
		II 1G Ex ia IIB T5 Ga Ta -20...80°C
		II 2G Ex ia IIC T6 Gb Ta -20...70°C
		II 2G Ex ia IIC T5 Gb Ta -20...80°C
		II 1D Ex ia IIIC T20090°C Da Ta: -20...70°C
		II 1D Ex ia IIIC T200100° C Da Ta: -20...80°C
EMC	EN 60947-5-6	
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)	
MTTF	[years]	4899

Safety classification

Max. internal capacitance	[nF]	110
Max. internal inductance	[μH]	135

Mechanical data

Weight	[g]	147
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 12 x 26
Materials		PBT

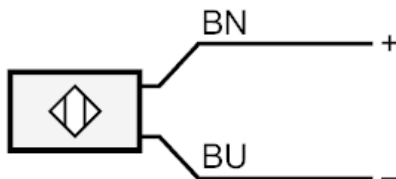
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



BN = Core colours :
brown
BU = blue