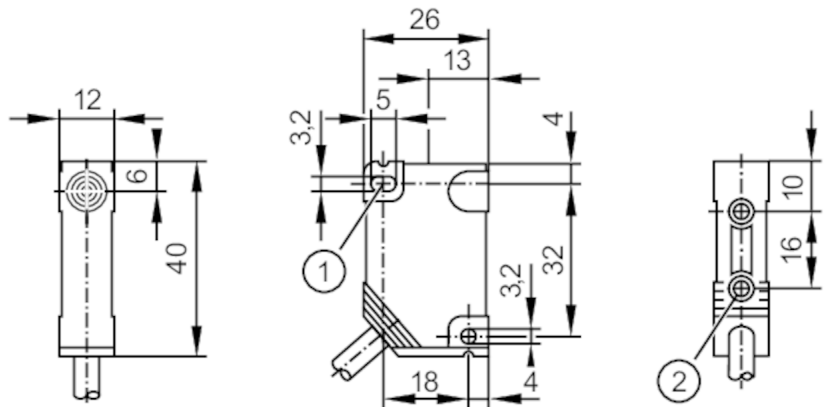


NN5001



Inductive NAMUR sensor

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



- 1 mounting hole
2 threaded bush M3 Depth 5.8 mm



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; (1k Ω)
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 $\pm$ 10 %

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [X01]	1...15
Switch point drift [X01]	-10...10



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	[ANN]	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	
Mounting hole		
Tightening torque	[Nm]	< 0.5
Threaded bush		
Tightening torque	[Nm]	< 1.2; (when brass insert in contact with counterpart)
Remarks		
Pack quantity	1 pcs.	

NN5001



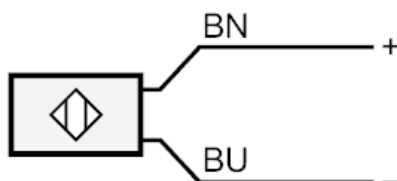
Inductive NAMUR sensor

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

Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



BN =	Core colours :
BU =	brown
	blue