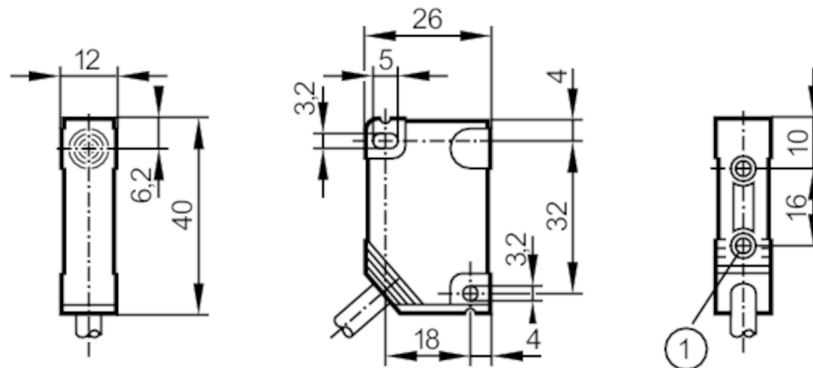




Inductive NAMUR sensor

IN-2004-N/10M/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



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]	400

Detection zone

Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 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

Operating conditions

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

NN5020



Inductive NAMUR sensor

IN-2004-N/10M/1D/1G/2G

Tests / approvals

Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; IECEx BVS 06.0003	
ATEX marking		II 1G Ex ia IIB T6 Ga
		II 2G Ex ia IIC T6 Gb
		II 1D Ex ia IIIC T 90°C Da
EMC	EN 60947-5-6	
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)	
MTTF [years]	5029	

Safety classification

Max. internal capacitance [nF]	112
Max. internal inductance [μH]	143

Mechanical data

Weight [g]	451
Housing	rectangular
Mounting	non-flush mountable
Dimensions [mm]	40 x 12 x 26
Materials	PBT

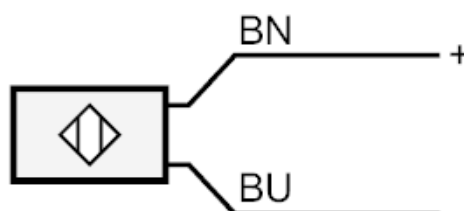
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 10 m, PVC; 2 x 0.5 mm²

Connection



Core colours :

BN = brown
BU = blue