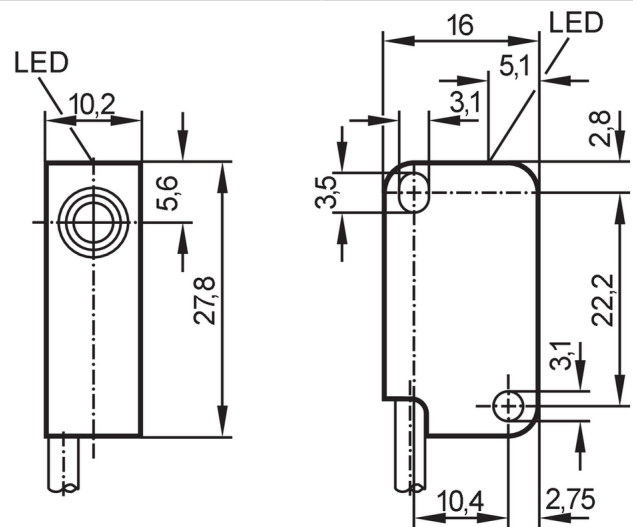


NS5003



Inductive NAMUR sensor

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



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	27.8 x 10.2 x 16

Application

Application	For applications in hazardous areas
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Electrical data

Connection at circuit amplifier	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	III

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

Monitoring range

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 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...15

NS5003



Inductive NAMUR sensor

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Switch-point drift	[% of Sr]	-10...10
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Operating conditions

Ambient temperature	[°C]	-20...70
Protection		IP 67

Tests / approvals

Approval	PTB 02 ATEX 2217; BVS 04 ATEX E 153 X; IECEx BVS 06.0003X	
ATEX marking		II 1G Ex ia IIB T6 Ga Ta -20...70°C
		II 2G Ex ia IIC T6 Gb Ta -20...70°C
		II 1D Ex ia IIIC T200 90°C Da Ta: -20...70°C
		II 1D Ex ia IIIC T200 100° 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]	4494

Safety classification

Max. internal capacitance	[nF]	80
Max. internal inductance	[µH]	110

Mechanical data

Weight	[g]	79.5
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	27.8 x 10.2 x 16
Material		housing: PBT

Displays / operating elements

Display	Switching status	1 x LED, red
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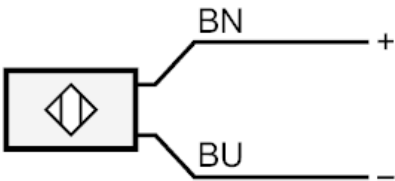
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 2 x 0.14 mm²

Connection



BN = Core colors : brown
BU = blue