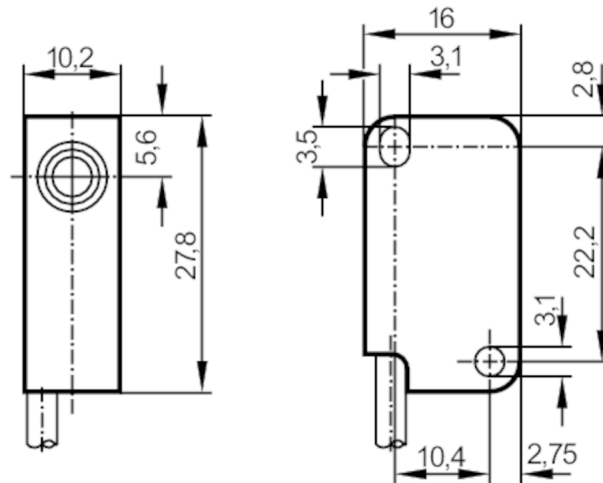




Inductive NAMUR sensor

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



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)

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 [% of Sr]	1...15
Switch point drift [% of Sr]	-10...10

Operating conditions

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

NS5002



Inductive NAMUR sensor

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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]	4737

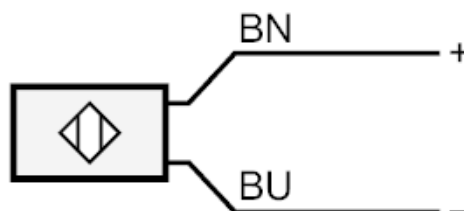
Safety classification	
Max. internal capacitance [nF]	80
Max. internal inductance [μH]	110

Mechanical data	
Weight [g]	84.3
Housing	rectangular
Mounting	flush mountable
Dimensions [mm]	28 x 10 x 16
Materials	PBT

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 2 m, PVC; 2 x 0.14 mm ²	

Connection



Core colours :

BN = brown
BU = blue