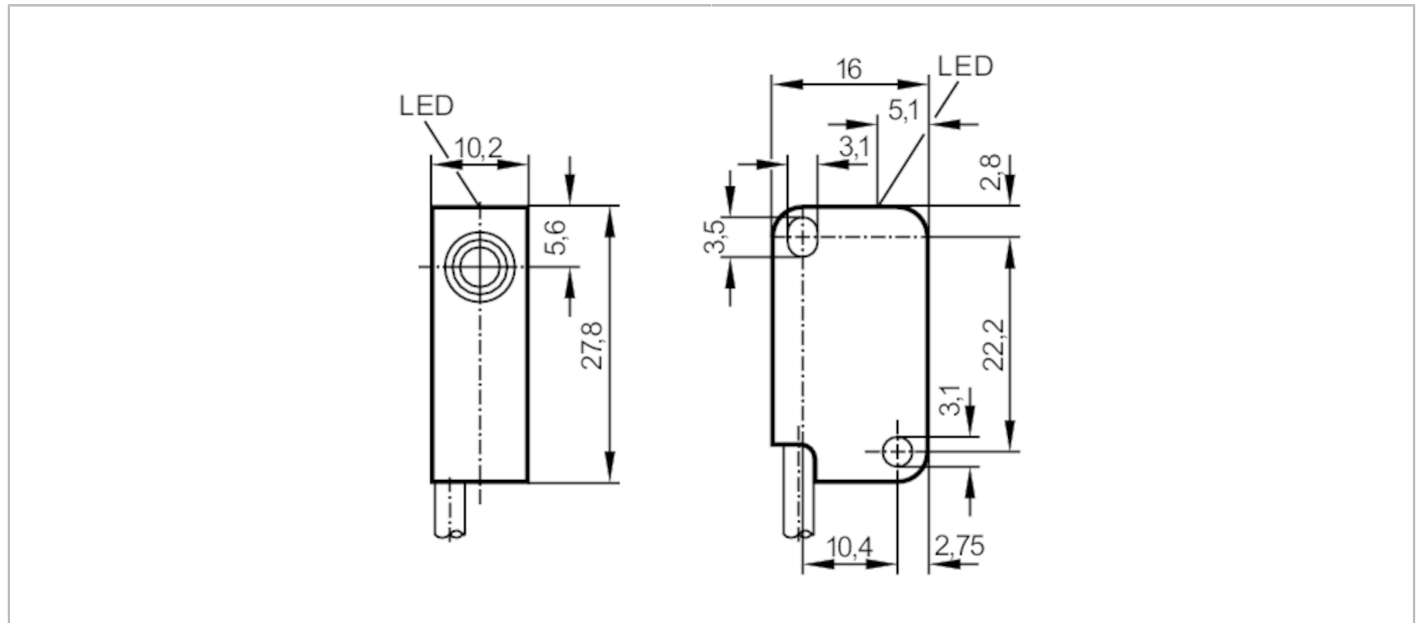


NS5003



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]	28 x 10 x 16
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	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
Detection zone	
Sensing range [mm]	2
Real sensing range Sr [mm]	2 ± 10 %

NS5003



Inductive NAMUR sensor

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

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
Tests / approvals		
Approval		PTB 02 ATEX 2217; BVS 04 ATEX E153; IECEx BVS 06.0003
ATEX marking		Ex II 1G Ex ia IIB T6 Ga Ta: -20...70° C
		Ex II 2G Ex ia IIC T6 Gb Ta: -20...70° C
		Ex II 1D Ex ia IIIC T90° C Da Ta: -20...70° 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]	28 x 10 x 16
Materials		PBT
Displays / operating elements		
Display	switching status	1 x LED, red
Remarks		
Pack quantity		1 pcs.

NS5003



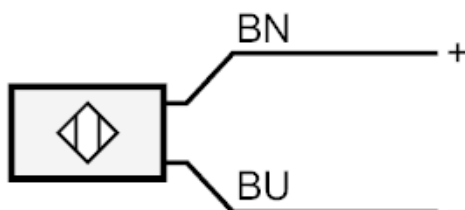
Inductive NAMUR sensor

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

Electrical connection

Cable: 2 m, PVC; 2 x 0.14 mm²

Connection



Core colours :

BN =

brown

BU =

blue