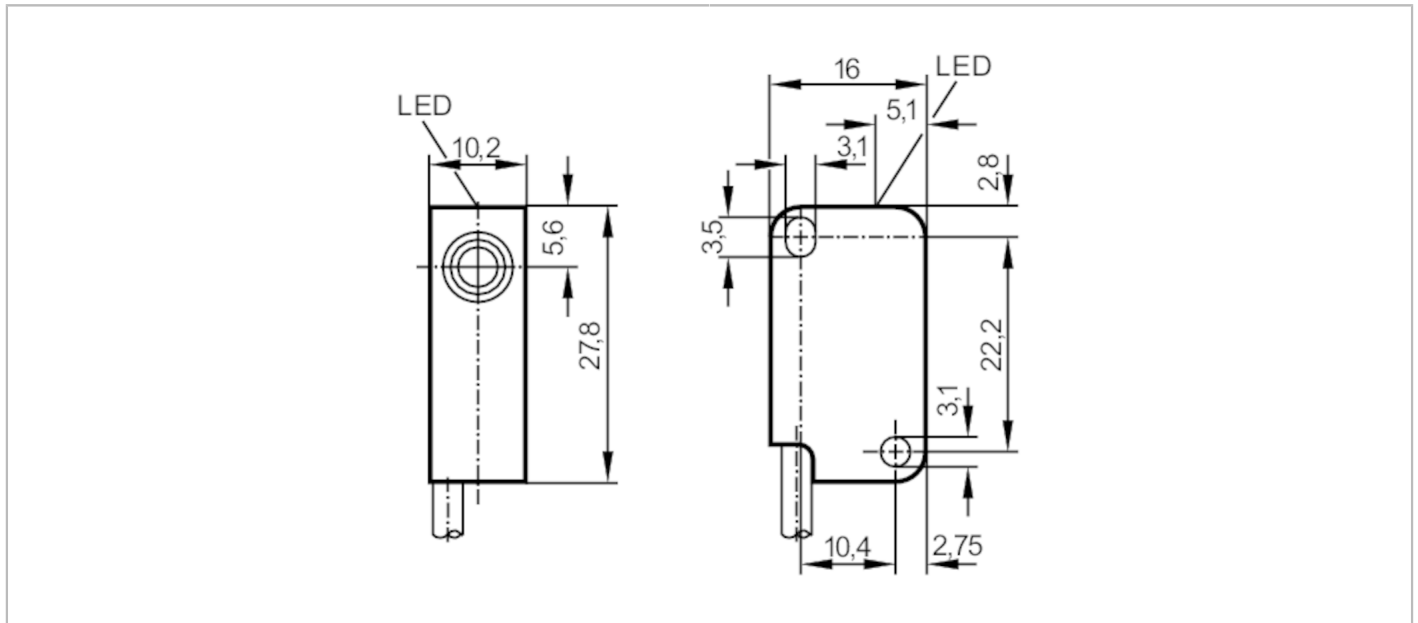


# NS5003



## Induktiver 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 %
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...15

# NS5003



## Induktiver NAMUR-Sensor

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

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


Ambient temperature	[°C]	-20...70
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Protection	IP 67
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### Tests / approvals

Approval	PTB 02 ATEX 2217; BVS 04 ATEX E153; IECEx BVS 06.0003
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ATEX marking	 II 1G Ex ia IIB T6 Ga Ta: -20...70° C
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	 II 2G Ex ia IIC T6 Gb Ta: -20...70° C
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	 II 1D Ex ia IIIC T90° C Da Ta: -20...70° C
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EMC	EN 60947-5-6
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Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
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MTTF	[years]	4494
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### Safety classification

Max. internal capacitance	[nF]	80
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Max. internal inductance	[µH]	110
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### Mechanical data

Weight	[g]	79.5
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Housing	rectangular
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Mounting	flush mountable
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Dimensions	[mm]	28 x 10 x 16
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Materials	PBT
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### Displays / operating elements

Display	switching status	1 x LED, red
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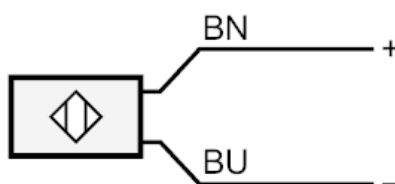
### Remarks

Pack quantity	1 pcs.
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### Electrical connection

Cable: 2 m, PVC; 2 x 0.14 mm<sup>2</sup>

### Connection



Core colours :  
BN = brown  
BU = blue