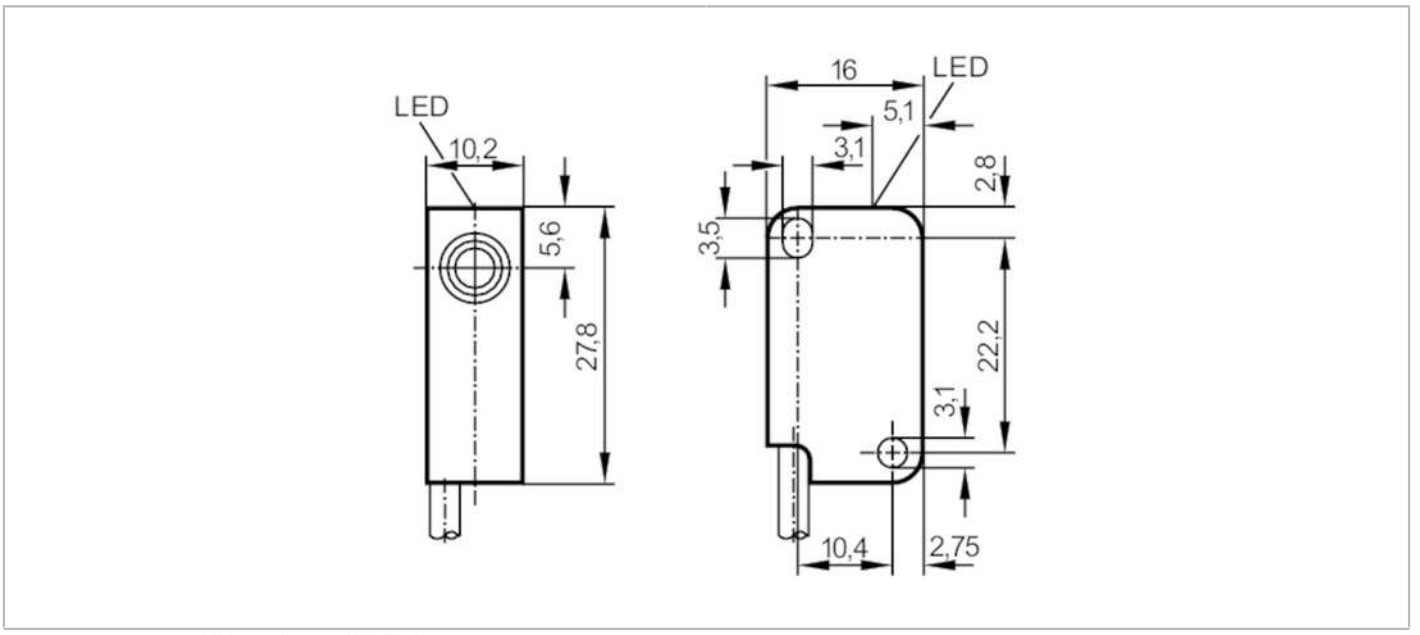
NS5003

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

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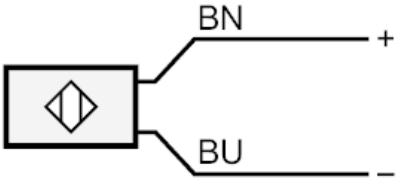
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-20...70	
Protection		IP 67	
Tests / approvals			
Approval		PTB 02 ATEX 2217; BVS 04 ATEX E153; IECEx BVS 06.0003	
ATEX marking		II 1G Ex ia IIB T6 Ga Ta: -20...70° C	
		II 2G Ex ia IIC T6 Gb Ta: -20...70° C	
		II 1D Ex ia IIIC 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.	
Electrical connection			

Cable: 2 m, PVC; 2 x 0.14 mm²

Connection



Core colours :
BN = brown
BU = blue