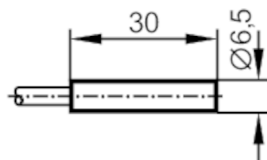


NT5001



Inductive NAMUR sensor

ITA2001-N/1D/1G



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	1
Housing	tubular
Dimensions [mm]	Ø 6.5 / L = 30

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; (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]	2000

Monitoring range

Sensing range [mm]	1
Real sensing range Sr [mm]	1 ± 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
Switch-point drift [% of Sr]	-10...10

Operating conditions

Ambient temperature [°C]	-20...80
Protection	IP 67

Tests / approvals

Approval	PTB 01 ATEX 2191; BVS 04 ATEX E 153 X; IECEx BVS 06.0003X
ATEX marking	Ex II 1G Ex ia IIC T6 Ga Ta -20...70°C
	Ex II 1G Ex ia IIC T5 Ga Ta -20...80°C
	Ex II 1D Ex ia IIIC T200 90°C Da Ta: -20...70°C

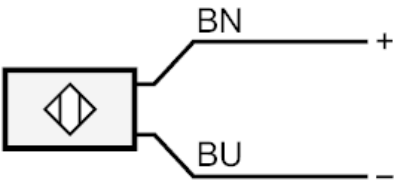
NT5001



Inductive NAMUR sensor

ITA2001-N/1D/1G

		 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]		4816	
Safety classification			
Max. internal capacitance [nF]		80	
Max. internal inductance [µH]		70	
Mechanical data			
Weight [g]		116	
Housing		tubular	
Mounting		flush mountable	
Dimensions [mm]		Ø 6.5 / L = 30	
Material		brass special coating; sensing face: PBT	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Cable: 2 m, PVC; 2 x 0.14 mm²			
Connection			



BN = Core colors : brown
BU = blue