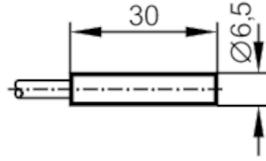


NT5005



Inductive NAMUR sensor

ITA2001-N/6M/1D/1G



Electrical data

Connection to switching amplifiers	yes
Switching amplifiers	connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 120 \text{ mW}$
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)
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

Detection zone

Sensing range [mm]	1
Real sensing range S_r [mm]	$1 \pm 10 \%$

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

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

Tests / approvals

Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; IECEx BVS 06.0003
ATEX marking	 II 1G Ex ia IIC T6 Ga Ta: -20...70° C
	 II 1G Ex ia IIC T5 Ga Ta: -20...80° C
	 II 1D Ex ia IIIC T90° C Da Ta: -20...70° C
	 II 1D Ex ia IIIC T100° 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]	6204

NT5005



Inductive NAMUR sensor

ITA2001-N/6M/1D/1G

Safety classification

Max. internal capacitance	[nF]	81
Max. internal inductance	[μH]	74

Mechanical data

Weight	[g]	150.8
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 30
Materials		brass special coating; sensing face: PBT

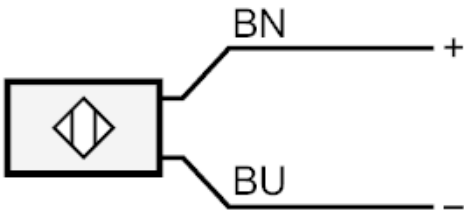
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 6 m, PVC; 2 x 0.14 mm²

Connection



Core colours :

BN = brown
BU = blue