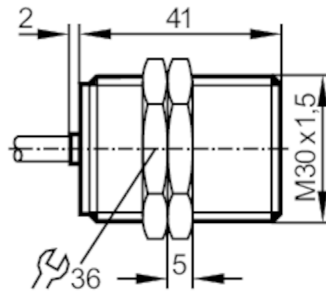


# NI5001



## Inductive NAMUR sensor

II-2010-N/1D/1G/2G



### Product characteristics

Electrical design		NAMUR
Output function		normally closed
Sensing range	[mm]	10
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 41

### 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		II

### 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]	450

### Detection zone

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

### Operating conditions

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

# NI5001



## Inductive NAMUR sensor

II-2010-N/1D/1G/2G

Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; TIIS TC16109; IECEx BVS 06.0003
ATEX marking	$\text{Ex}$ II 1G Ex ia IIB T6 Ga
	$\text{Ex}$ II 2G Ex ia IIC T6 Gb
	$\text{Ex}$ II 1D Ex ia IIIC T 90°C Da
EMC	EN 60947-5-6
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
MTTF [years]	4697

Safety classification	
Max. internal capacitance [nF]	145
Max. internal inductance [ $\mu$ H]	140

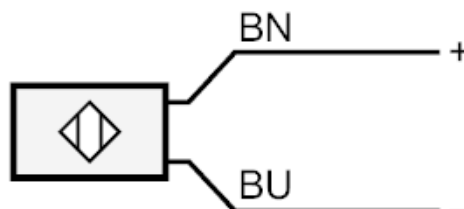
Mechanical data	
Weight [g]	174.5
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M30 x 1.5 / L = 41
Thread designation	M30 x 1.5
Materials	PBT

Accessories	
Accessories (supplied)	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 2 m, PVC; 2 x 0.5 mm <sup>2</sup>	

### Connection



Core colours :

BN = brown  
BU = blue