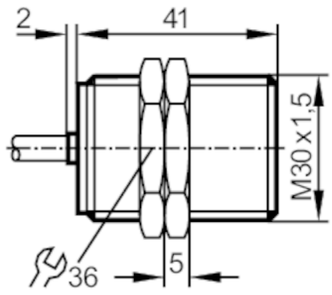
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# NI5001

## 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 |

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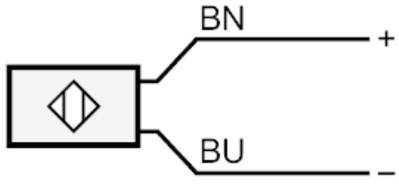
## Inductive NAMUR sensor

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 | | II 1G Ex ia IIB T6 Ga |
| | | II 2G Ex ia IIC T6 Gb |
| | | 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 | [µH] | 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** | | |
| Items supplied | | lock nuts: 2 |
| **Remarks** | | |
| Pack quantity | | 1 pcs. |
| **Electrical connection** | | |

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection




Core colours :
BN = brown
BU = blue