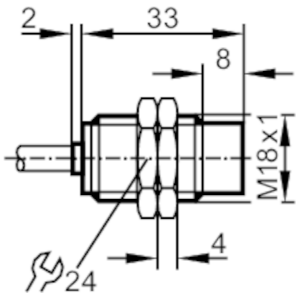


# NG5010



## Inductive NAMUR sensor

IGA2008-N/10M/1D/1G/2G



| Product characteristics                         |           |                                                                                                             |
|-------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------|
| Electrical design                               |           | NAMUR                                                                                                       |
| Output function                                 |           | normally closed                                                                                             |
| Sensing range                                   | [mm]      | 8                                                                                                           |
| Housing                                         |           | threaded type                                                                                               |
| Dimensions                                      | [mm]      | M18 x 1 / L = 33                                                                                            |
| 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]      | 300                                                                                                         |
| Detection zone                                  |           |                                                                                                             |
| Sensing range                                   | [mm]      | 8                                                                                                           |
| Real sensing range Sr                           | [mm]      | 8 ± 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                                                                                                       |

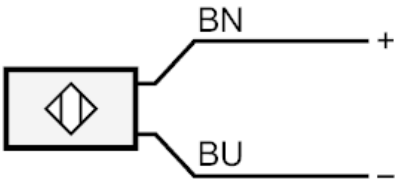
# NG5010



## Inductive NAMUR sensor

IGA2008-N/10M/1D/1G/2G

| Tests / approvals              |                                                                         |  |
|--------------------------------|-------------------------------------------------------------------------|--|
| Approval                       | PTB 01 ATEX 2191; BVS 04 ATEX E 153 X; IECEx BVS 06.0003X; TIIS TC16108 |  |
| ATEX marking                   | II 1G Ex ia IIB T6 Ga Ta -20...70°C                                     |  |
|                                | II 1G Ex ia IIB T5 Ga Ta -20...80°C                                     |  |
|                                | II 2G Ex ia IIC T6 Gb Ta -20...70°C                                     |  |
|                                | II 2G Ex ia IIC T5 Gb Ta -20...80°C                                     |  |
|                                | II 1D Ex ia IIIC T20090°C Da Ta: -20...70°C                             |  |
|                                | II 1D Ex ia IIIC T200100° 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]                   | 4512                                                                    |  |
| Safety classification          |                                                                         |  |
| Max. internal capacitance [nF] | 157                                                                     |  |
| Max. internal inductance [µH]  | 58                                                                      |  |
| Mechanical data                |                                                                         |  |
| Weight [g]                     | 463.5                                                                   |  |
| Housing                        | threaded type                                                           |  |
| Mounting                       | non-flush mountable                                                     |  |
| Dimensions [mm]                | M18 x 1 / L = 33                                                        |  |
| Thread designation             | M18 x 1                                                                 |  |
| Materials                      | brass white bronze coated; sensing face: PBT                            |  |
| Accessories                    |                                                                         |  |
| Items supplied                 | lock nuts: 2                                                            |  |
| Remarks                        |                                                                         |  |
| Pack quantity                  | 1 pcs.                                                                  |  |
| Electrical connection          |                                                                         |  |
| Cable: 10 m, PVC; 2 x 0.5 mm²  |                                                                         |  |
| Connection                     |                                                                         |  |



BN = Core colours :  
brown  
BU = blue