



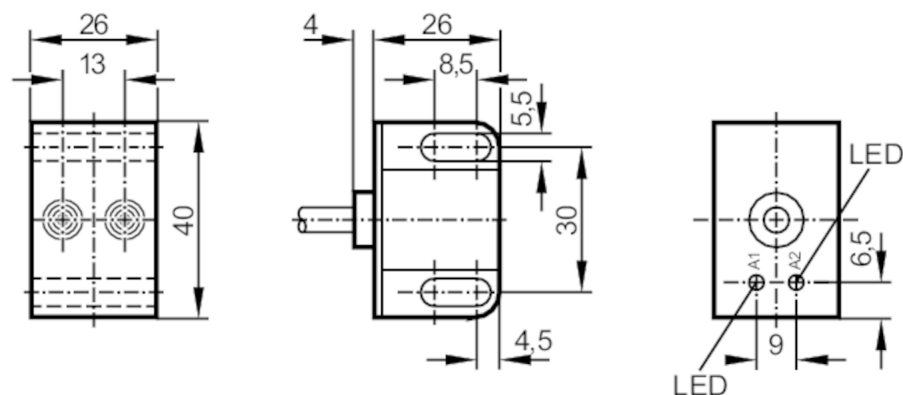
## Inductive NAMUR dual sensor for valve actuators

IND2004DN/6M/1G/2G

Article no longer available - archive entry

Alternative articles: NN5011

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                    |                     |
|--------------------|---------------------|
| Electrical design  | NAMUR               |
| Output function    | 2 x normally closed |
| Sensing range [mm] | 4                   |
| Housing            | rectangular         |
| Dimensions [mm]    | 40 x 26 x 26        |

### 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...15                                                                                                    |
| Current consumption [mA]           | < 1; (disabled; conductive: > 2,1)                                                                          |

### Outputs

|                             |                     |
|-----------------------------|---------------------|
| Electrical design           | NAMUR               |
| Output function             | 2 x normally closed |
| Switching frequency DC [Hz] | 1800                |

### Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 4        |
| Real sensing range Sr [mm] | 4 ± 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                                                                    |

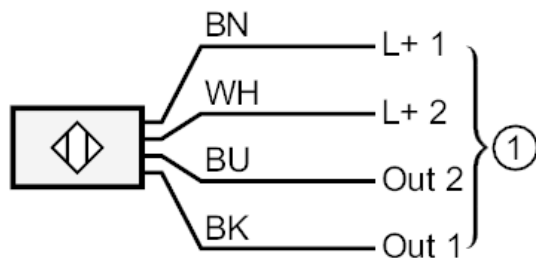
# NN5010



## Inductive NAMUR dual sensor for valve actuators

IND2004DN/6M/1G/2G

| Operating conditions                           |                  |                                                                                                       |
|------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------|
| Ambient temperature                            | [°C]             | -20...70                                                                                              |
| Protection                                     |                  | IP 67                                                                                                 |
| Tests / approvals                              |                  |                                                                                                       |
| Approval                                       |                  | DMT 02 ATEX E 028                                                                                     |
| ATEX marking                                   |                  |  II 1G EEx ia IIB T6 |
|                                                |                  |  II 2G EEx ia IIC T6 |
| EMC                                            | EN 60947-5-2     |                                                                                                       |
| Shock/vibration resistance                     |                  | 30 g (11 ms) / 10-55 Hz (1 mm)                                                                        |
| Safety classification                          |                  |                                                                                                       |
| Max. internal capacitance                      | [nF]             | 140; (per intrinsically safe circuit)                                                                 |
| Max. internal inductance                       | [µH]             | 135; (per intrinsically safe circuit)                                                                 |
| Mechanical data                                |                  |                                                                                                       |
| Housing                                        |                  | rectangular                                                                                           |
| Mounting                                       |                  | non-flush mountable                                                                                   |
| Dimensions                                     | [mm]             | 40 x 26 x 26                                                                                          |
| Materials                                      |                  | PBT                                                                                                   |
| Displays / operating elements                  |                  |                                                                                                       |
| Display                                        | switching status | 2 x LED, yellow                                                                                       |
| Remarks                                        |                  |                                                                                                       |
| Pack quantity                                  |                  | 1 pcs.                                                                                                |
| Electrical connection                          |                  |                                                                                                       |
| Cable: 6 m, silicone; 4 x 0.34 mm <sup>2</sup> |                  |                                                                                                       |
| Connection                                     |                  |                                                                                                       |



1 = connection to NAMUR amplifiers  
Core colours :  
BK = black  
BN = brown  
BU = blue  
WH = white