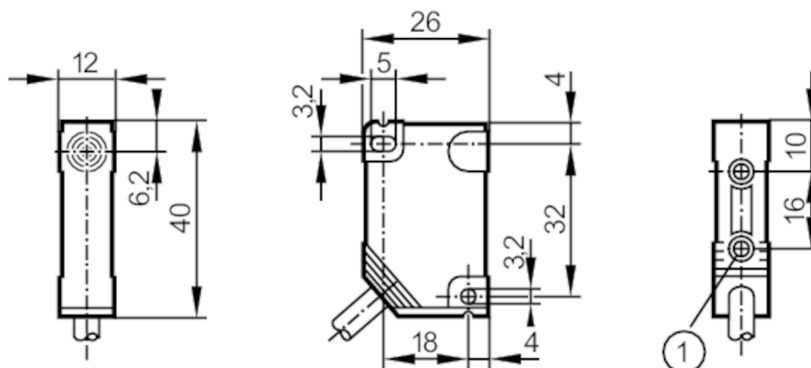




## Inductive sensor

IN-2002-N/50m

Article no longer available - archive entry



- 1 threaded bush M3 Depth 5.8 mm  
Tightening torque maximum 1.2 Nm screw fixing class 8.8  
when brass insert in contact with counterpart



### Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | NAMUR           |
| Output function    | normally closed |
| Sensing range [mm] | 2               |
| Housing            | rectangular     |
| Dimensions [mm]    | 40 x 12 x 26    |

### Electrical data

|                                    |                                                                                                                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection to switching amplifiers | yes                                                                                                                                                                                                             |
| Switching amplifiers               | connection to switching amplifiers NV0100, NV0200 or other approved switching amplifiers with the max. values: $U = 16 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 180 \text{ mW}$ (T5) / $P = 123 \text{ mW}$ (T6) |
| Nominal voltage DC [V]             | 8.2; (1k $\Omega$ )                                                                                                                                                                                             |
| Supply voltage DC [V]              | 5...25                                                                                                                                                                                                          |
| Current consumption [mA]           | < 1; (disabled; conductive: > 2,1)                                                                                                                                                                              |

### Outputs

|                                    |                 |
|------------------------------------|-----------------|
| Electrical design                  | NAMUR           |
| Output function                    | normally closed |
| Max. cable resistance [ $\Omega$ ] | 50              |
| Switching frequency DC [Hz]        | 800             |

### Detection zone

|                    |   |
|--------------------|---|
| Sensing range [mm] | 2 |
|--------------------|---|

### Operating conditions

|                                            |          |
|--------------------------------------------|----------|
| Ambient temperature [ $^{\circ}\text{C}$ ] | -20...70 |
| Protection                                 | IP 67    |

### Tests / approvals

|          |                                                                        |
|----------|------------------------------------------------------------------------|
| Approval | PTB-Zulassungs-Nr. Ex-00.E.2013; Gerätekennzeichnung: EEx ia IIC T5/T6 |
|----------|------------------------------------------------------------------------|

# NN5005



## Inductive sensor

IN-2002-N/50m

|                            |                                |
|----------------------------|--------------------------------|
| Shock/vibration resistance | 30 g (11 ms) / 10-55 Hz (1 mm) |
| MTTF [ANN]                 | 4899                           |

### Safety classification

|                                |     |
|--------------------------------|-----|
| Max. internal capacitance [nF] | 110 |
| Max. internal inductance [μH]  | 170 |

### Mechanical data

|                 |                 |
|-----------------|-----------------|
| Housing         | rectangular     |
| Mounting        | flush mountable |
| Dimensions [mm] | 40 x 12 x 26    |
| Materials       | PBT             |

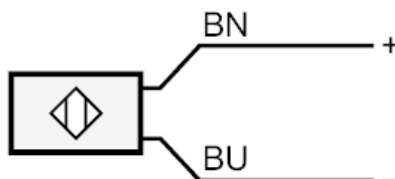
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 50 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



BN = Core colours :  
BU = brown  
blue