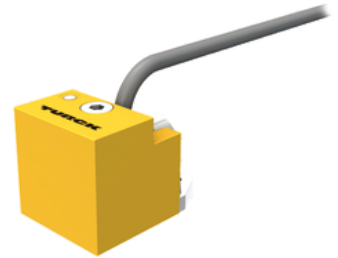
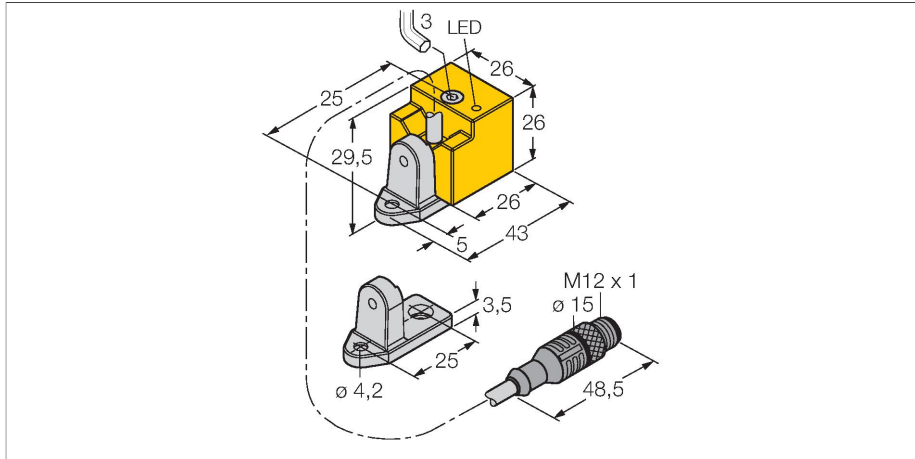


# BI10-QN26-AD4X-0.15-RS4.23/S90

## Inductive Sensor

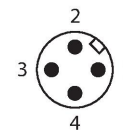
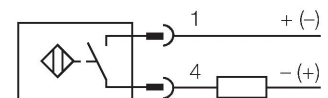


### Technical data

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| Type                                   | BI10-QN26-AD4X-0.15-RS4.23/S90                                                       |
| ID                                     | 4470224                                                                              |
| Remark to product                      | For use in France, please take the version with the W/BF adapter, ident. no. 4470234 |
| Special version                        | S90 Corresponds to: PUR cable                                                        |
| <b>General data</b>                    |                                                                                      |
| Rated switching distance               | 10 mm                                                                                |
| Mounting conditions                    | Flush                                                                                |
| Secured operating distance             | $\leq (0.81 \times S_n)$ mm                                                          |
| Correction factors                     | St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4                                  |
| Repeat accuracy                        | $\leq 2 \%$ of full scale                                                            |
| Temperature drift                      | $\leq \pm 10 \%$                                                                     |
| Hysteresis                             | 1...15 %                                                                             |
| <b>Electrical data</b>                 |                                                                                      |
| Operating voltage $U_B$                | 10...65 VDC                                                                          |
| Ripple $U_{ss}$                        | $\leq 10 \%$ $U_{Bmax}$                                                              |
| DC rated operating current $I_o$       | $\leq 100$ mA                                                                        |
| Residual current                       | $\leq 0.6$ mA                                                                        |
| Isolation test voltage                 | 0.5 kV                                                                               |
| Short-circuit protection               | yes/Cyclic                                                                           |
| Voltage drop at $I_o$                  | $\leq 5$ V                                                                           |
| Wire break/reverse polarity protection | Complete                                                                             |
| Output function                        | 2-wire, NO contact, 2-wire                                                           |
| Smallest operating current             | $\geq 1.5$ mA                                                                        |
| Switching frequency                    | 0.5 kHz                                                                              |

### Features

- Rectangular, height 26 mm
- Variable orientation of active face in 4 directions
- Plastic, PBT-GF30-V0
- High luminance LED
- DC 2-wire, 10...65 VDC
- NO contact
- Cable with male end



### Functional principle

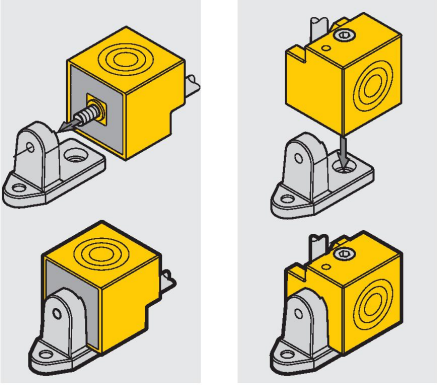
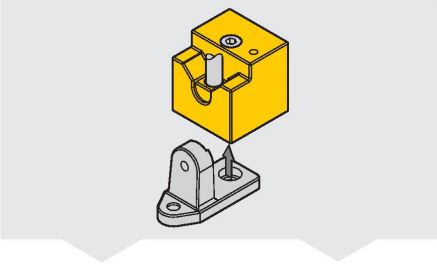
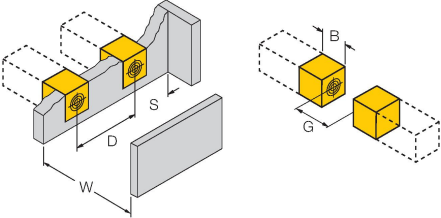
Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

## Technical data

| Mechanical data          |                                                     |
|--------------------------|-----------------------------------------------------|
| Design                   | Rectangular, QN26                                   |
| Dimensions               | 43 x 26 x 26 mm                                     |
|                          | variable orientation of active face in 4 directions |
| Housing material         | Plastic, PBT-GF30-V0, Yellow                        |
| Active area material     | Plastic, PBT-GF30-V0, yellow                        |
| Material coupling nut    | metal, CuZn                                         |
| Electrical connection    | Cable with connector, M12 × 1                       |
| Cable quality            | Ø 4.4 mm, LifYY-11Y, PUR, 0.15 m                    |
| Core cross-section       | 2 x 0.34 mm <sup>2</sup>                            |
| Environmental conditions |                                                     |
| Ambient temperature      | -25...+70 °C                                        |
| Vibration resistance     | 55 Hz (1 mm)                                        |
| Shock resistance         | 30 g (11 ms)                                        |
| Protection class         | IP67                                                |
| MTTF                     | 2283 years acc. to SN 29500 (Ed. 99) 40 °C          |
| Switching state          | LED, Yellow                                         |
| Included in delivery     | turning angle                                       |

Mounting instructions

Mounting instructions/Description



|                     |         |
|---------------------|---------|
| Distance D          | 3 x B   |
| Distance W          | 3 x Sn  |
| Distance S          | 1.5 x B |
| Distance G          | 6 x Sn  |
| Distance N          | 1 x B   |
| Width active area B | 26 mm   |

Screwed on acc. to  
DIN 6912 Allen screw  
M4 x 30 included in scope of supply.  
DIN 84 slotted screw  
Not included in scope of supply.