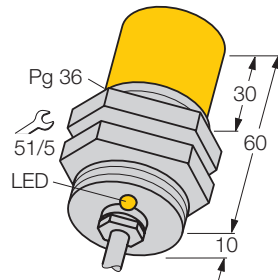


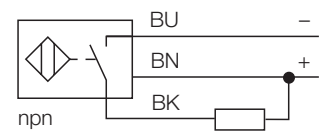
## Inductive sensor

### Ni25-G47-AN4X



- threaded barrel, PG36
- chrome-plated brass
- 3-wire DC, 10...65 VDC
- normally open npn output
- cable connection

#### Wiring diagram



#### Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

|                                                     |                            |
|-----------------------------------------------------|----------------------------|
| <b>Type</b>                                         | Ni25-G47-AN4X              |
| Ident-No.                                           | 15746                      |
| <b>Rated operating distance Sn</b>                  | 25 mm                      |
| Mounting mode                                       | non-flush                  |
| Hysteresis (switching distance)                     | 3... 15 %                  |
| Min. repeat accuracy                                | ≤ 2 %                      |
| Temperature drift                                   | ≤ ± 10 %                   |
| Operating temperature                               | -25 ... + 70 °C            |
| <b>Rated operational voltage (DC) U<sub>B</sub></b> | 10... 65 VDC               |
| Max. ripple                                         | ≤ 10 % U <sub>pp</sub>     |
| Rated operational current (DC) I <sub>e</sub>       | ≤ 200 mA                   |
| No-load current I <sub>0</sub>                      | ≤ 15 mA                    |
| Max. OFF-state current                              | ≤ 0,1 mA                   |
| Max. switching frequency                            | ≤ 0,1 kHz                  |
| Rated insulation voltage                            | ≤ 0,5 kV                   |
| Output function                                     | 3-wire, normally open, NPN |
| Short-circuit protection                            | yes, cyclic                |
| Max. voltage drop at I <sub>e</sub>                 | ≤ 1,8 V                    |
| Wire breakage / reverse polarity protection         | yes / complete             |
| <b>Housing style</b>                                | threaded barrel; PG36      |
| Dimensions                                          | 70 mm                      |
| Housing material                                    | metal, CuZn, chrome-plated |
| Active face                                         | plastic, PA12-GF30         |
| Max. fixing torque of coupling nut                  | 90 Nm                      |
| Wiring                                              | cable                      |
| Cable                                               | Ø 5,2, LifYY, PVC, 2 m     |
| Cable cross section                                 | 3 x 0,75 mm <sup>2</sup>   |
| Vibration resistance                                | 55 Hz (1 mm)               |
| Shock resistance                                    | 30 x g (11 ms)             |
| Degree of protection                                | IP67                       |
| <b>Switching status indication</b>                  | LED yellow                 |

## Inductive sensor

### Ni25-G47-AN4X

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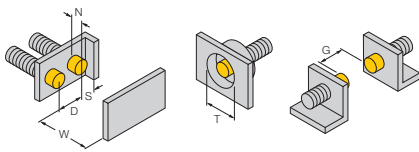
**Mounting instructions**

|       |             |
|-------|-------------|
|       | minimum gap |
| Gap D | 3 x B       |
| Gap W | 3 x Sn      |
| Gap T | 3 x B       |
| Gap S | 1,5 x B     |
| Gap G | 6 x Sn      |
| Gap N | 40 mm       |

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**Diameter of active face B**

Ø 47 mm



## Inductive sensor

### Ni25-G47-AN4X

#### Accessories

| Typ  | Ident-No. | Description                                         | Dimension drawing |
|------|-----------|-----------------------------------------------------|-------------------|
| MW47 | 69452     | mounting bracket; material: zinc-plated steel plate |                   |