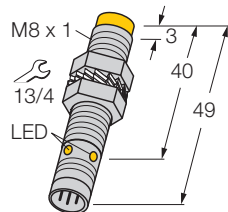


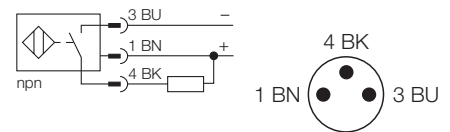
## Inductive sensor

### Ni3-EG08-AN6X-V1131



- threaded barrel, M8 x 1
- stainless steel, 1.4301
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M8 x 1

#### 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>                                         | Ni3-EG08-AN6X-V1131         |
| Ident-No.                                           | 4602850                     |
| <b>Rated operating distance Sn</b>                  | 3 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... 30 VDC                |
| Max. ripple                                         | ≤ 10 % U <sub>pp</sub>      |
| Rated operational current (DC) I <sub>e</sub>       | ≤ 150 mA                    |
| No-load current I <sub>0</sub>                      | ≤ 15 mA                     |
| Max. OFF-state current                              | ≤ 0,1 mA                    |
| Max. switching frequency                            | ≤ 3 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; M8 x 1     |
| Dimensions                                          | 49 mm                       |
| Housing material                                    | metal, A2 1.4301 (AISI 304) |
| Active face                                         | plastic, PA12-GF20          |
| Max. fixing torque of coupling nut                  | 10 Nm                       |
| Wiring                                              | connector, M8 x 1           |
| 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

### Ni3-EG08-AN6X-V1131

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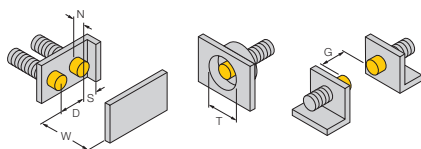
**Mounting instructions**

|       | 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 | 2 x Sn      |

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**Diameter of active face B**

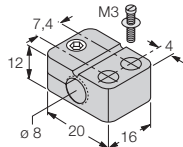
Ø 8 mm



## Inductive sensor

**Ni3-EG08-AN6X-V1131**

### Accessories

| Typ     | Ident-No. | Description                                                                                    | Dimension drawing                                                                                                                                                          |
|---------|-----------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BST-08B | 6947210   | fixing clamp with dead-stop; material: PA6                                                     | <br> |
| QM-08   | 6945100   | quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M12 x 1 |                                                                                                                                                                            |