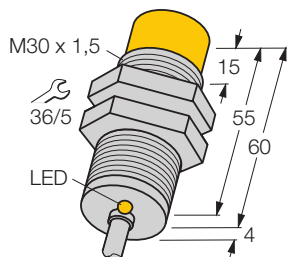


Inductive sensor Ni15-M30-AN6X

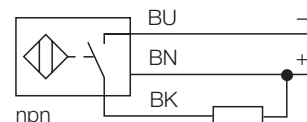
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- threaded barrel, M30 x 1.5
- Chrome-plated brass
- 3-wire DC, 10...30 VDC
- normally open npn output
- cable connection

Wiring diagram



Functional principle

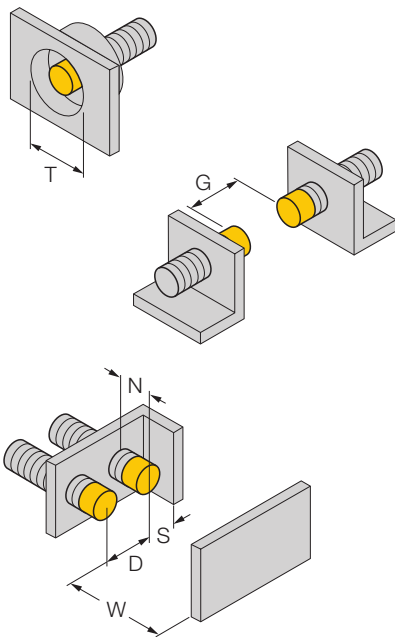
Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. Concerning inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

| | |
|---|---|
| Type | Ni15-M30-AN6X |
| Ident-No. | 46173 |
| Rated operating distance Sn | 15 mm |
| Mounting condition | non-flush |
| Assured sensing range | (0,81 x Sn) mm |
| Correction factors | St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3 |
| Repeatability | 2 % |
| Temperature drift | ± 10 % |
| Hysteresis | 3... 15 % |
| Ambient temperature | -25...+ 70 °C |
| Operating voltage | 10... 30VDC |
| Residual ripple | 10 % U _{SS} |
| DC rated operational current | 200 mA |
| No-load current I ₀ | 15 mA |
| Residual current | 0.1 mA |
| Rated insulation voltage | 0.5 kV |
| Short-circuit protection | yes / cyclic |
| Voltage drop at I _e | 1.8V |
| Wire breakage / Reverse polarity protection | yes / complete |
| Output function | 3-wire, normally open, npn |
| Switching frequency | 0.5 kHz |
| Housing | threaded barrel, M30 x 1.5 |
| Dimensions | 64 mm |
| Housing material | metal, CuZn, chrome-plated |
| Material active face | plastic, PA12-GF30 |
| End cap | plastic, EPTR |
| Tightening torque of housing nut | 75 Nm |
| Connection | cable |
| Cable quality | Ø 5.2, LiYY, PVC, 2 m |
| Cable cross section: | 3 x 0.34mm ² |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Degree of protection | IP67 |
| Display switch state | LED yellow |

**Inductive sensor
Ni15-M30-AN6X**

| Mounting instructions | minimum distances |
|-----------------------|-------------------|
| Distance D | 3 x B |
| Distance W | 3 x Sn |
| Distance T | 3 x B |
| Distance S | 1,5 x B |
| Distance G | 6 x Sn |
| Distance N | 20 mm |

Diameter of the active area B Ø 30 mm

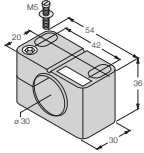
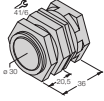
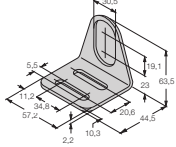
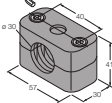


Inductive sensor Ni15-M30-AN6X

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Accessories

| Type code | Ident-No. | Short text | Dimension drawing |
|-----------|-----------|--|---|
| BST-30B | 6947216 | fixing clamp with dead-stop; material: PA6 |  |
| QM-30 | 6945103 | quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M36 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets. |  |
| MW-30 | 6945005 | mounting bracket; material: stainless steel A2 1.4301 (AISI 304) |  |
| BSS-30 | 6901319 | fixing clamp; material: polypropylene |  |