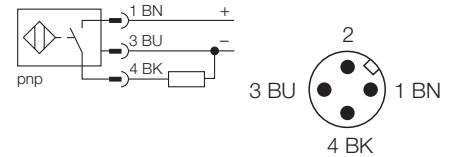


- threaded barrel, M30 x 1,5
- teflon-coated brass
- front cap made of Duroplast, especially temperature and impact resistant
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- connector, M12 x 1

| | |
|---|-------------------------------|
| Type | Bi10U-MT30H-AP6X-H1141 |
| Ident-No. | 1636212 |
| Rated operating distance Sn | 10 mm |
| Mounting condition | flush |
| Assured switching distance | ≤ (0,81 x Sn) mm |
| Repetition accuracy | ≤ 2 % |
| Temperature drift | ≤ ± 10 % |
| Hysteresis | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| ambient temperature | 3... 15 % |
| | -30 ... + 85 °C |
| Operating voltage | 10... 30 V DC |
| 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 dip at I _e | ≤ 1.8 V |
| Wire breakage / reverse polarity protection | yes / complete |
| Output function | 3-wire, normally open, pnp |
| Insulation class | □ |
| Switching frequency | ≤ 2 kHz |
| Housing style | threaded barrel; M30 x 1,5 |
| Dimensions | 62 mm |
| Housing material | metal, CuZn, teflonised |
| Material active area | plastic, Duroplast |
| Housing nut tightening torque | 75 Nm |
| Connection | connector, M12 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Protection degree | IP67 |
| Switch state display | LED yellow |

Wiring diagram

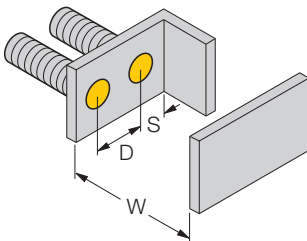
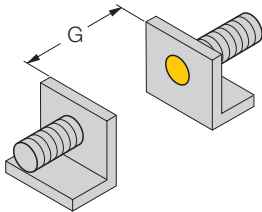
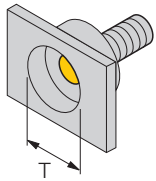


Function principle

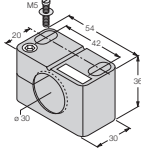
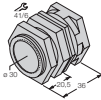
Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

| Mounting instructions | minimum distances |
|-----------------------|-------------------|
| Distance D | 2 x B |
| Distance W | 3 x Sn |
| Distance T | 3 x B |
| Distance S | 1,5 x B |
| Distance G | 6 x Sn |

| | |
|--------------------------------------|---------|
| Diameter of the active area B | Ø 30 mm |
|--------------------------------------|---------|



Accessories

| Type code | Ident-No. | Short text | Dimension drawing |
|-----------|-----------|--|--|
| BST-30B | 6947216 | fixing clamp with dead-stop; material: PA6 |   |
| QMT-30 | 6945105 | quick-mount fixing clamp with dead-stop; material: teflon-coated brass male thread M36 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets. | |