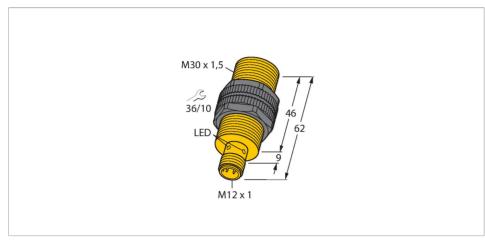


BI10U-S30-AN6X-H1141 Inductive Sensor



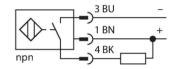
Technical data

| BI10U-S30-AN6X-H1141 |
|-----------------------------------|
| 1636620 |
| 10 mm |
| Flush |
| ≤ (0.81 × Sn) mm |
| ≤ 2 % of full scale |
| ≤ ± 10 % |
| ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| 315 % |
| -30+85 °C |
| 1030 VDC |
| ≤ 10 % U _{ss} |
| ≤ 200 mA |
| ≤ 20 mA |
| ≤ 0.1 mA |
| ≤ 0.5 kV |
| yes / Cyclic |
| ≤ 1.8 V |
| yes / Complete |
| 3-wire, NO contact, NPN |
| |
| 2 kHz |
| Threaded barrel, M30 \times 1.5 |
| 62 mm |
| |

Features

- Threaded barrel, M30 x 1.5
- Plastic, PBT-GF30
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M12 x 1 male connector

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. *uprox** Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

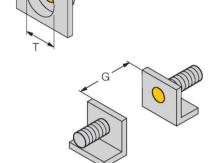


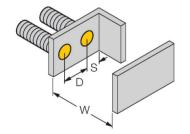
Technical data

| Housing material | Plastic, PBT-GF30 |
|------------------------------------|---|
| Active area material | Plastic, PA12-GF30 |
| Max. tightening torque housing nut | 5 Nm |
| Electrical connection | Connector, M12 × 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP68 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Switching state | LED, Yellow |

Mounting instructions

Mounting instructions/Description





| 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 active area B | Ø 30 mm |

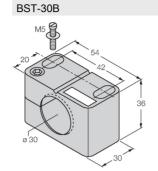


Accessories

QM-30 41/6 0 30

6945103

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.



6947216

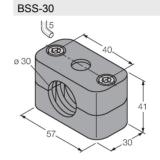
6901319

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



6945005

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



Mounting clamp for smooth and threaded barrel sensors; material:

Polypropylene

Wiring accessories

Dimension drawing

Type

RKC4T-2/TEL

Ident. no. 6625010

Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com

