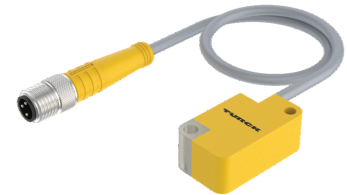
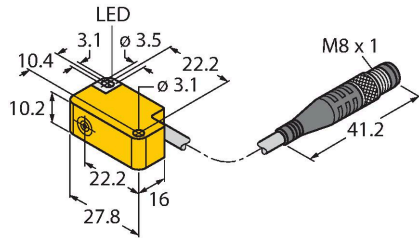


BI2-Q10S-AN6X-0.2-PSG3M

Inductive Sensor



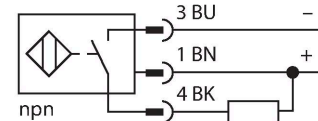
Technical data

| | |
|--|---|
| Type | BI2-Q10S-AN6X-0.2-PSG3M |
| ID | 1619388 |
| General data | |
| Rated switching distance | 2 mm |
| Mounting conditions | Flush |
| Secured operating distance | $\leq (0.81 \times S_n)$ mm |
| Correction factors | St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4 |
| Repeat accuracy | $\leq 2 \%$ of full scale |
| Temperature drift | $\leq \pm 10 \%$ |
| Hysteresis | 3...15 % |
| Electrical data | |
| Operating voltage U_B | 10...30 VDC |
| Ripple U_{rs} | $\leq 10 \%$ U_{Bmax} |
| DC rated operating current I_o | ≤ 150 mA |
| No-load current | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Isolation test voltage | 0.5 kV |
| Short-circuit protection | yes/Cyclic |
| Voltage drop at I_o | ≤ 1.8 V |
| Wire break/reverse polarity protection | yes/Complete |
| Output function | 3-wire, NO contact, NPN |
| Switching frequency | 2 kHz |

Features

- Rectangular, height 10.2 mm
- Active face, lateral
- Cable outlet to all sides
- Plastic, PP-GF20
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Pigtail with male end M8 x 1

Wiring diagram

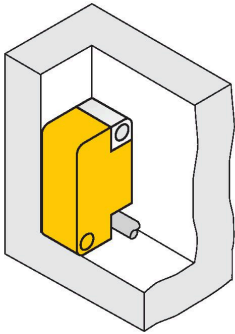


Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

Technical data

| Mechanical data | |
|--------------------------|---|
| Design | Rectangular, Q10S |
| Dimensions | 27.8 x 16 x 10.2 mm |
| Housing material | Plastic, PP-GF20 |
| Active area material | PP-GF20 |
| Material coupling nut | metal, CuZn, nickel-plated |
| Electrical connection | Cable with connector, Ø 8 mm |
| Cable quality | Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.2 m |
| | Suited for E-ChainSystems® acc. to manufacturers declaration H1063M |
| Core cross-section | 3 x 0.14 mm² |
| Environmental conditions | |
| Ambient temperature | -25...+70 °C |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 2283 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 S | 1 x B |
| | Distance G | 6 x Sn |
| | Width active area B | 10.2 mm |

BI2-Q10S-AN6X-0.2-PSG3M| 02/21/2025 14-41 | technical changes reserved