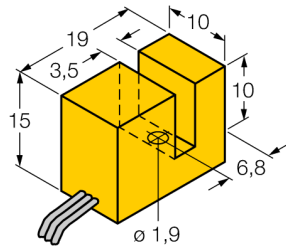
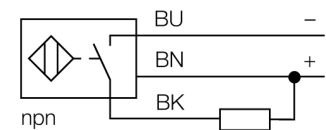


**Inductive sensor
slot-type
SI3,5-K10-AN7**



- Slot sensor, height 10 mm
- Plastic, PBT-GF30-V0
- 3-wire DC, 10...30 VDC
- NO contact, NPN output
- TTL compatible
- Cable connection

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

| | |
|---|--|
| Type code | SI3,5-K10-AN7 |
| Ident no. | 1719000 |
| Slot width | 3.5 mm |
| Repeatability | ≤ 2 % of full scale |
| Temperature drift | 10 % |
| Hysteresis | 3...15 % |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 10...30VDC |
| Residual ripple | ≤ 10 % U _s |
| DC rated operational current | ≤ 200 mA |
| No-load current I ₀ | ≤ 10 mA |
| Residual current | ≤ 0.1 mA |
| Rated insulation voltage | ≤ 0.5 kV |
| Short-circuit protection | no |
| Voltage drop at I ₀ | ≤ 0.7 V |
| Wire breakage / Reverse polarity protection | yes/ yes (voltage supply) |
| Output function | 3-wire, NO contact, NPN |
| Switching frequency | 2 kHz |
| Design | slot sensor, K10 |
| Dimensions | 19 x 15 x 10 mm |
| Housing material | plastic, PBT |
| Material active area | Plastic, PBT |
| Connection | cable |
| Cable quality | 1.1 mm, LiYV, PVC, 0.5 m |
| Litz wire | 3x0.14mm ² |
| 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 |
| Included in scope of supply | 1 x M1,8 x 10 (DIN963A) |

**Inductive sensor
slot-type
SI3,5-K10-AN7**

| | |
|------------|-------|
| Distance D | 0 mm |
| Distance T | 5 mm |
| Distance S | 0 mm |
| Distance G | 0 mm |
| Distance A | 15 mm |
| Distance C | 15 mm |

