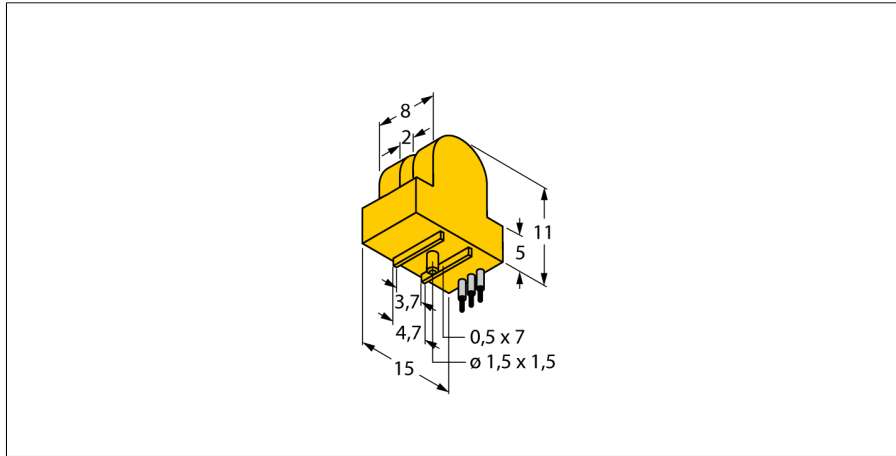
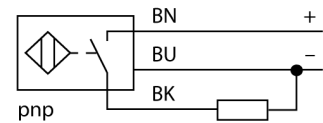


Inductive sensor
Slot-type
SI2-K08-AP6



- Slot sensor, height 8 mm
- Plastic, polypropylene
- Mechanical end stop, removable, for analog pointer instruments
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Lead connection

Wiring Diagram



| | |
|---|--|
| Type designation | SI2-K08-AP6 |
| Ident no. | 1605500 |
| Slot width | 2 mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ± 10 % |
| Hysteresis | 3...15 % |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 10...30 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 100 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Isolation test voltage | ≤ 0.5 kV |
| Short-circuit protection | yes/ Cyclic |
| Voltage drop at I ₀ | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes/ Complete |
| Output function | 3-wire, NO contact, PNP |
| Switching frequency | 1 kHz |
| Design | Slot sensor, K08 |
| Dimensions | 11 x 15 x 8 mm |
| Housing material | Plastic, PP |
| Active area material | Plastic, PP |
| Electrical connection | Stranded wires |
| Cable quality | 0.8 mm, Lif91Y, TPE-O, 0.32m |
| Cable cross section | 1 x 0.1 mm 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 |

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.

Inductive sensor
Slot-type
SI2-K08-AP6

| | |
|------------|-------|
| Distance D | 0 mm |
| Distance T | 5 mm |
| Distance S | 0 mm |
| Distance G | 1 mm |
| Distance A | 15 mm |
| Distance C | 15 mm |

