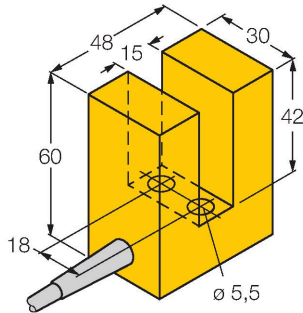


SI15-K30-AZ3

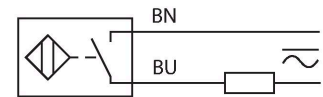
Inductive Sensor – Slot-type



Features

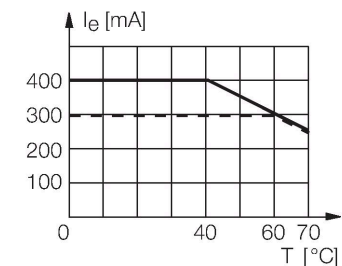
- Height 30mm
- Plastic, PBT-GF30-V0
- AC 2-wire, 20...250 VAC
- DC 2-wire, 10...300 VDC
- NO contact
- Cable connection

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.



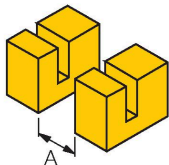
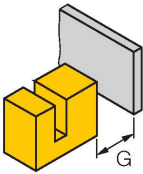
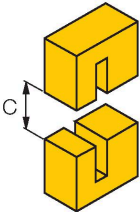
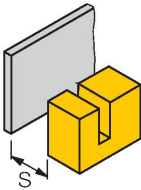
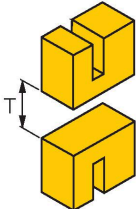
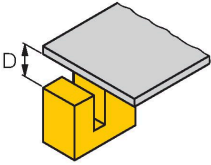
Technical data

| | |
|--------------------------------|----------------------------|
| Type | SI15-K30-AZ3 |
| ID | 13069 |
| General data | |
| Slot width | 15 mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ±10 % |
| Hysteresis | 3...15 % |
| Electrical data | |
| Operating voltage | 20...250 VAC |
| Operating voltage | 10...300 VDC |
| AC rated operational current | ≤ 400 mA |
| DC rated operational current | ≤ 300 mA |
| Frequency | ≥ 50...≤ 60 Hz |
| Residual current | ≤ 1.7 mA |
| Isolation test voltage | ≤ 1.5 kV |
| Surge current | ≤ 8 A (≤ 10 ms max. 5 Hz) |
| Voltage drop at I _e | ≤ 6 V |
| Output function | 2-wire, NO contact, 2-wire |
| Smallest operating current | ≥ 3 mA |
| Switching frequency | 0.02 kHz |
| Mechanical data | |
| Design | Slot sensor, K30 |
| Dimensions | 48 x 60 x 30 mm |
| Housing material | Plastic, PBT-GF30-V0 |
| Active area material | Plastic, PBT-GF30-V0 |
| Electrical connection | Cable |
| Cable quality | Ø 5.2 mm, LifYY, PVC, 2 m |

Technical data

| | |
|---------------------------------|--|
| Core cross-section | 2 x 0.34 mm ² |
| 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 |

Mounting instructions

| Mounting instructions/Description | | | | | | | | | | | | | |
|---|--|------------|------|------------|-------|------------|------|------------|------|------------|-------|------------|-------|
|  |  | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Distance D</td> <td>5 mm</td> </tr> <tr> <td>Distance T</td> <td>10 mm</td> </tr> <tr> <td>Distance S</td> <td>5 mm</td> </tr> <tr> <td>Distance G</td> <td>5 mm</td> </tr> <tr> <td>Distance A</td> <td>30 mm</td> </tr> <tr> <td>Distance C</td> <td>30 mm</td> </tr> </table> | Distance D | 5 mm | Distance T | 10 mm | Distance S | 5 mm | Distance G | 5 mm | Distance A | 30 mm | Distance C | 30 mm |
| Distance D | 5 mm | | | | | | | | | | | | |
| Distance T | 10 mm | | | | | | | | | | | | |
| Distance S | 5 mm | | | | | | | | | | | | |
| Distance G | 5 mm | | | | | | | | | | | | |
| Distance A | 30 mm | | | | | | | | | | | | |
| Distance C | 30 mm | | | | | | | | | | | | |