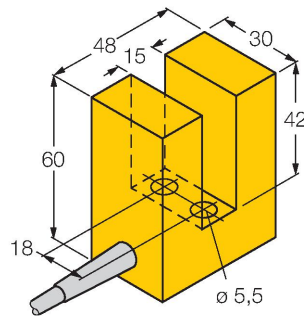


# SI15-K30-VP6

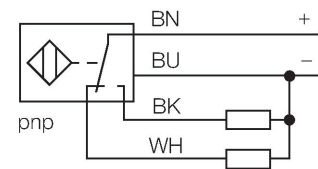
## Inductive Sensor – Slot-type



### Features

- Slot sensor, height 30 mm
- Plastic, PBT-GF30-V0
- DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- 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.

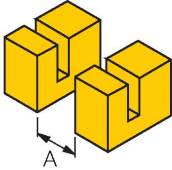
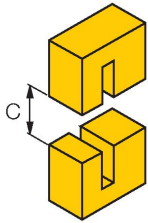
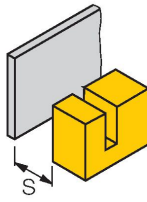
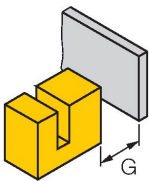
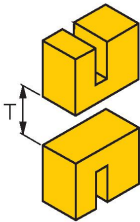
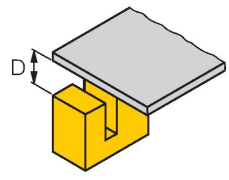
### Technical data

|                                        |                                    |
|----------------------------------------|------------------------------------|
| Type                                   | SI15-K30-VP6                       |
| ID                                     | 1605030                            |
| <b>General data</b>                    |                                    |
| Slot width                             | 15 mm                              |
| Repeat accuracy                        | ≤ 2 % of full scale                |
| Temperature drift                      | ≤ ±10 %                            |
| Hysteresis                             | 3...15 %                           |
| <b>Electrical data</b>                 |                                    |
| Operating voltage $U_B$                | 10...30 VDC                        |
| Ripple $U_{ss}$                        | ≤ 10 % $U_{Bmax}$                  |
| DC rated operating current $I_o$       | ≤ 200 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                        | 4-wire, Complementary contact, PNP |
| Switching frequency                    | 0.5 kHz                            |
| <b>Mechanical data</b>                 |                                    |
| Design                                 | Slot sensor, K30                   |
| Dimensions                             | 48 x 60 x 30 mm                    |
| Housing material                       | Plastic, PBT-GF30-V0               |
| Active area material                   | Plastic, PBT-GF30-V0               |

Technical data

|                          |                                            |
|--------------------------|--------------------------------------------|
| Electrical connection    | Cable                                      |
| Cable quality            | Ø 5.2 mm, Gray, LifYY, PVC, 2 m            |
| Core cross-section       | 4 x 0.34 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 |

Mounting instructions

| Mounting instructions/Description                                                   |                  |
|-------------------------------------------------------------------------------------|------------------|
|   | Distance D 5 mm  |
|  | Distance T 10 mm |
|  | Distance S 5 mm  |
|   | Distance G 5 mm  |
|  | Distance A 30 mm |
|  | Distance C 30 mm |