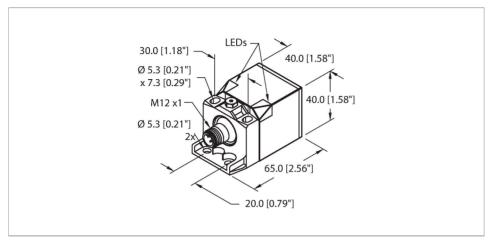


NI25U-CK40-AP6X2-H1141 W/BS2.1 **Inductive Sensors**



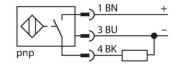
Technical data

| Туре | NI25U-CK40-AP6X2-H1141 W/BS2.1 |
|---|---------------------------------|
| Ident. no. | 1625790 |
| Rated switching distance | 25 mm |
| Mounting conditions | Non-flush, partially embeddable |
| Secured operating distance | ≤ (0.81 × Sn) mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ± 10 % |
| | ≤ ± 20 %, ≤ -25 °C v ≥ +70 °C |
| Hysteresis | 315 % |
| Ambient temperature | -30+85 °C |
| Operating voltage | 1030 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 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 _e | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes / Complete |
| Output function | 3-wire, NO contact, PNP |
| Insulation class | |
| Switching frequency | 0.25 kHz |
| Design | Rectangular, CK40 |
| Dimensions | 65 x 40 x 40 mm |
| | |

Features

- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- Auto-compensation protects against predamping
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox Factor 1 sensors have significant advantages due to their patented ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

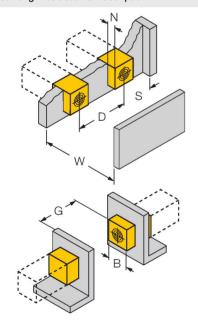


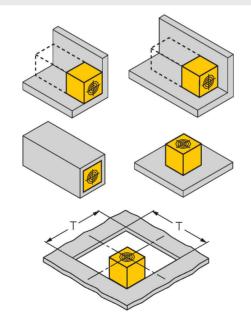
Technical data

| | variable orientation of active face in 5 directions |
|-----------------------|---|
| Housing material | Plastic, PBT-GF20-V0, Black |
| Active area material | Plastic, PA12-GF30, yellow |
| Electrical connection | Connector, M12 × 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP68 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication | 2 × LEDs, Green |
| Switching state | 2 × LEDs, Yellow |
| Included in delivery | BS2.1-CK40 |
| | |

Mounting instructions

Mounting instructions/Description





| Distance D | 240 mm |
|---------------------|--------|
| Distance W | 75 mm |
| Distance T | 100 mm |
| Distance S | 20 mm |
| Distance G | 150 mm |
| Distance N | 30 mm |
| Width active area B | 40 mm |

up to 4-side flush mounting possible 1-side flush mounting: Sr = 22 mm 2-side flush mounting: Sr = 20 mm

3-side flush mounting: Sr = 17 mm 4-side flush mounting: Sr = 13 mm

back-mounting without reduction of the switching distance

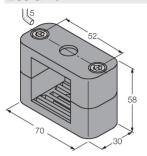
recessed mounting with switching distance reduction possible



Accessories

BSS-CP40

6901318



Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene