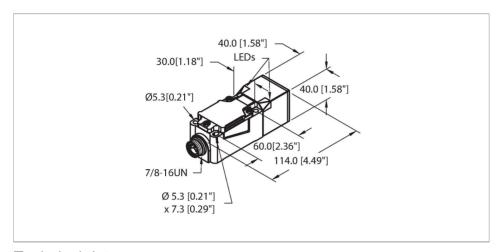


NI40U-CP40-VN4X2-B1141 Inductive Sensor - With Extended Switching Distance



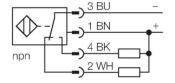
Technical data

| Туре | NI40U-CP40-VN4X2-B1141 |
|---|------------------------------------|
| ID no. | 1540691 |
| Rated switching distance | 40 mm |
| Mounting conditions | Non-flush |
| 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 | 1065 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 | 4-wire, Complementary contact, NPN |
| Switching frequency | 0.25 kHz |
| Design | Rectangular, CP40 |
| Dimensions | 114 x 40 x 40 mm |
| Housing material | Plastic, PBT-GF30-V0, Black |

Features

- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-VO
- High-luminance corner LEDs
- Optimum view of operating voltage and switching state from any position
- Factor 1 for all metals
- ■Increased switching distance
- ■Protection class IP68
- ■Large coverage
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 4-wire, 10...65 VDC
- Changeover contact, NPN output
- ■7/8" 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.

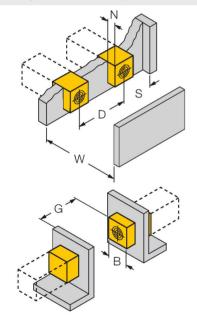


Technical data

| Active area material | Plastic, PA6-GF30-X, yellow |
|-----------------------|---|
| Connector housing | metal |
| Electrical connection | Connector, 7/8" |
| 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 |

Mounting instructions

Mounting instructions/Description



| Distance D | 240 mm |
|---------------------|---------|
| Distance W | 3 x Sn |
| Distance S | 1.5 x B |
| Distance G | 6 x Sn |
| Distance N | 30 mm |
| Width active area B | 40 mm |

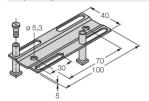


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Accessories

Adjusting bar JS 025/037

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Adjusting bar for rectangular housings CK/CP40; material: VA 1.4301

BSS-CP40

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