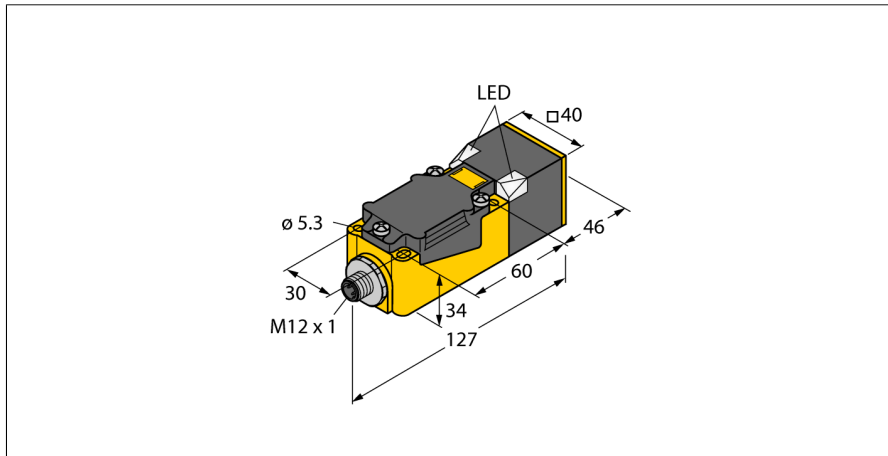
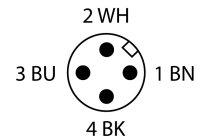
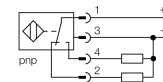


Inductive sensor
With increased switching distance
NI40U-CP40-VP4X2-H1141



- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply 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, PNP output
- M12 x 1 male connector

Wiring Diagram



Functional principle

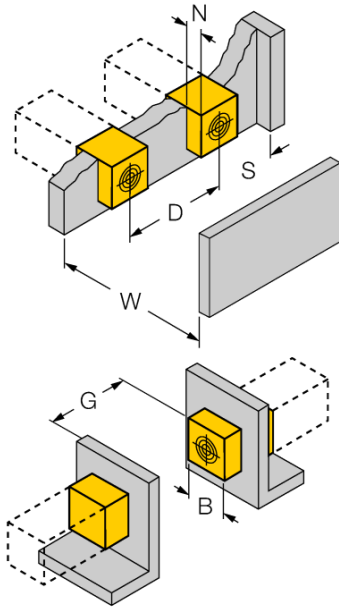
Inductive sensors detect metal objects contactless and wear-free. *uprox®* Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

| | |
|--|---|
| Type designation | NI40U-CP40-VP4X2-H1141 |
| Ident no. | 1540602 |
| Rated switching distance S_n | 40 mm |
| Mounting conditions | Non-flush |
| Secured operating distance | $\leq (0,81 \times S_n)$ mm |
| Repeat accuracy | $\leq 2\%$ of full scale |
| Temperature drift | $\leq \pm 10\%$ |
| Hysteresis | $\leq \pm 20\%$, $\leq -25\text{ °C}$ v $\geq +70\text{ °C}$ |
| Ambient temperature | $-30\text{...}+85\text{ °C}$ |
| Operating voltage | 10...65 VDC |
| Residual ripple | $\leq 10\%$ U_{ss} |
| DC rated operational current | ≤ 200 mA |
| No-load current I_0 | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Isolation test voltage | ≤ 0.5 kV |
| Short-circuit protection | yes |
| Voltage drop at I_0 | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes/ Complete |
| Output function | 4-wire, Complementary contact, PNP |
| Reverse polarity protection | Complete |
| Protection class | IP68 |
| Switching frequency | 0.25 kHz |
| Design | Rectangular, CP40 |
| Dimensions | 114 x 40 x 40 mm |
| Housing material | Plastic, PBT-GF30-V0, Black |
| Active area material | Plastic, PA6-GF30-X, yellow |
| Electrical connection | Connector, M12 x 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 | LED green |
| Switching state | LED yellow |

**Inductive sensor
With increased switching distance
NI40U-CP40-VP4X2-H1141**

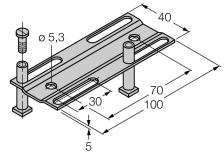
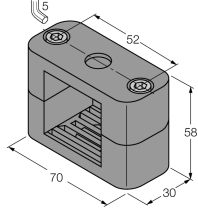
| | |
|------------|---------|
| Distance D | 240 mm |
| Distance W | 3 x Sn |
| Distance S | 1.5 x B |
| Distance G | 6 x Sn |
| Distance N | 1 x B |

| | |
|---------------------|-------|
| Width active area B | 40 mm |
|---------------------|-------|

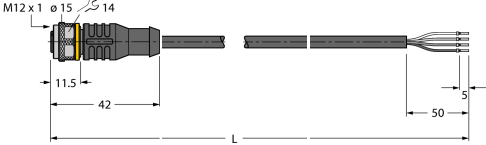


**Inductive sensor
With increased switching distance
NI40U-CP40-VP4X2-H1141**

Accessories

| Type code | Ident no. | Description | |
|--------------------------|-----------|---|---|
| Adjusting bar JS 025/037 | 69429 | Adjusting bar for rectangular housings CK/CP40; material: VA 1.4301 |  |
| BSS-CP40 | 6901318 | Mounting bracket for rectangular devices; material: Polypropylene |  |

Wiring accessories

| Type code | Ident no. | Description | |
|---------------|-----------|--|---|
| RKC4.4T-2/TEL | 6625013 | Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com |  |