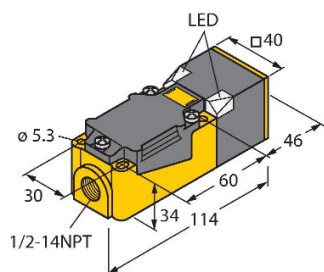


ID Number: 4280801

TURCK

NI40U-CP40-FDZ30X2/S10

Inductive Sensor – With Extended Switching Distance



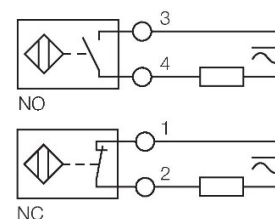
Technical data

| | |
|---|--|
| Type | NI40U-CP40-FDZ30X2/S10 |
| ID no. | 4280801 |
| Special version | S10 corresponds to: Mounting base with 1/2-14NPT thread |
| Rated switching distance | 40 mm |
| Mounting conditions | Non-flush |
| Secured operating distance | $\leq (0.81 \times S_n) \text{ mm}$ |
| Repeat accuracy | $\leq 2\%$ of full scale |
| Temperature drift | $\leq \pm 10\%$ $\leq \pm 20\%, \leq -25^\circ\text{C} \vee \geq +70^\circ\text{C}$ |
| Hysteresis | 3...15 % |
| Ambient temperature | -30...+85 °C |
| Operating voltage | 20...250 VAC |
| Operating voltage | 10...300 VDC |
| AC rated operational current | $\leq 400 \text{ mA}$ |
| DC rated operational current | $\leq 300 \text{ mA}$ |
| Frequency | $\geq 50... \leq 60 \text{ Hz}$ |
| Residual current | $\leq 1.7 \text{ mA}$ |
| Isolation test voltage | $\leq 1.5 \text{ kV}$ |
| Surge current | $\leq 3 \text{ A} (\leq 20 \text{ ms max. } 5 \text{ Hz})$ |
| Short-circuit protection | yes / Latching |
| Voltage drop at I_n | $\leq 6 \text{ V}$ |
| Wire breakage/Reverse polarity protection | yes / Complete |
| Output function | 2-wire, Connection programmable, 2-wire |

Features

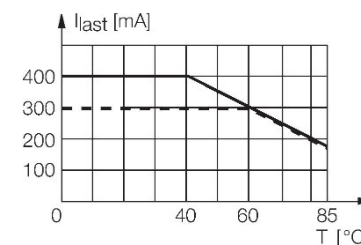
- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply voltage and switching state from any position
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Large coverage
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- AC 2-wire, 20...250 VAC
- DC 2-wire, 10...300 VDC
- NC/NO programmable
- Terminal chamber

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. Approx 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.



NI40U-CP40-FDZ30X2/S10 | 08/11/2021 21:58 | technical changes reserved