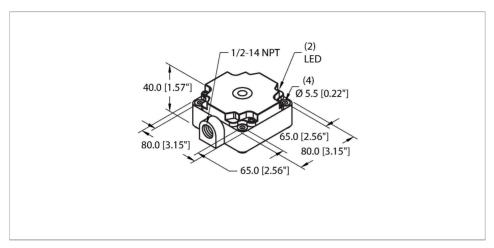


NI75U-CP80-FDZ30X2/S10 Inductive Sensor - With Increased Switching Distance



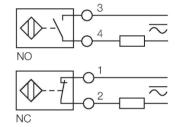
Technical data

| Туре | NI75U-CP80-FDZ30X2/S10 |
|---|--|
| ID | 4280901 |
| Special version | S10 Corresponds to:Mounting base with 1/2-14NPT thread |
| General data | |
| Rated switching distance | 75 mm |
| Mounting conditions | Non-flush |
| Secured operating distance | ≤ (0.81 × Sn) mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ±10 % |
| | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| Hysteresis | 315 % |
| Electrical data | |
| Operating voltage U _B | 20250 VAC |
| Operating voltage U _B | 10300 VDC |
| AC rated operational current | ≤ 400 mA |
| DC rated operating current I _o | ≤ 300 mA |
| Frequency | ≥ 50≤ 60 Hz |
| Residual current | ≤ 1.7 mA |
| Isolation test voltage | 1.5 kV |
| Surge current | ≤ 3 A (≤ 20 ms max. 5 Hz) |
| Short-circuit protection | yes/Latching |
| Voltage drop at I。 | ≤ 6 V |
| Wire break/reverse polarity protection | yes/Complete |

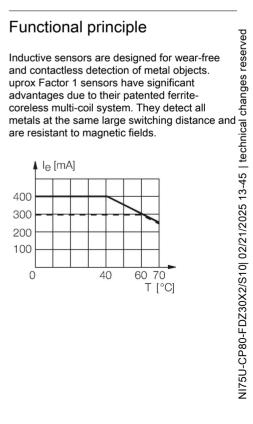
Features

- Rectangular, height 41 mm
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Resistant to magnetic fields
- ■Large coverage
- ■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





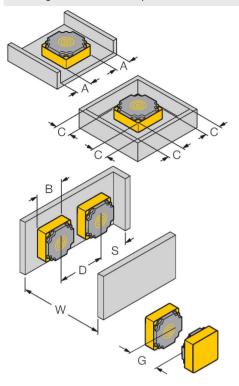
Technical data

| Output function | 2-wire, Connection programmable, 2-wire |
|----------------------------|---|
| DC field stability | 300 mT |
| AC field stability | 300 mT _{ss} |
| Smallest operating current | ≥ 3 mA |
| Insulation class | |
| Switching frequency | 0.01 kHz |
| Mechanical data | |
| Design | Rectangular, CP80 |
| Dimensions | 80 x 80 x 41 mm |
| Housing material | Plastic, PBT-GF30-V0 |
| Active area material | PBT-GF30-V0 |
| Electrical connection | Terminal chamber |
| Clamping ability | ≤ 2.5 mm² |
| Environmental conditions | |
| Ambient temperature | -30+85 °C |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication | LED, Green |
| Switching state | LED, Yellow |



Mounting instructions

Mounting instructions/Description



| Distance D | 4 x B |
|---------------------|---------|
| Distance W | 3 x Sn |
| Distance S | 1.5 x B |
| Distance G | 6 x Sn |
| Distance A | 1 x B |
| Distance C | 1 x B |
| Width active area B | 80 mm |