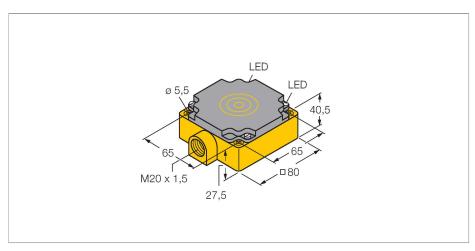
# NI75U-CP80-VN4X2 Inductive Sensor – With Increased Switching Distance



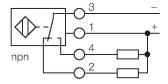
#### Technical data

Туре	NI75U-CP80-VN4X2
ID	1540810
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	1065 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
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。	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	4-wire, Complementary contact, NPN
DC field stability	300 mT
AC field stability	300 mT <sub>ss</sub>
Insulation class	
Switching frequency	0.25 kHz

#### **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
- ■DC 4-wire, 10...65 VDC
- Changeover contact, NPN output
- Terminal chamber

#### 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.

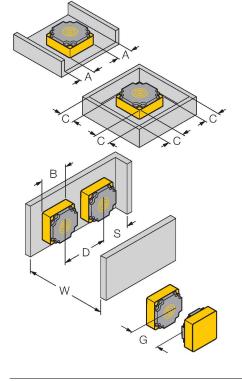


### Technical data

Rectangular, CP80
80 x 80 x 41 mm
Plastic, PBT-GF30-V0
PBT-GF30-V0
Terminal chamber
≤ 2.5 mm²
-30+85 °C
55 Hz (1 mm)
30 g (11 ms)
IP67
874 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Green
LED

## Mounting instructions

#### Mounting instructions/Description



Distance D	3 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