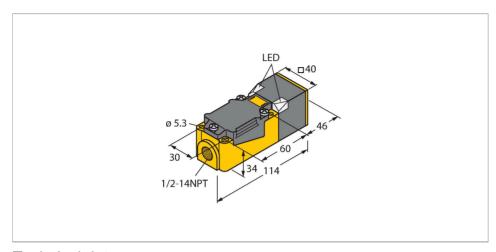


NI50U-CP40-VN4X2/S10 Inductive Sensor – With Extended Switching Distance



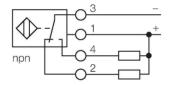
Technical data

Туре	NI50U-CP40-VN4X2/S10
ID	1625807
Special version	S10 Corresponds to:Mounting base with 1/2-14NPT thread
General data	
Rated switching distance	50 mm
Mounting conditions	Non-flush, flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	≤ ± 20 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1065 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 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 break/reverse polarity protection	yes/Complete
Output function	4-wire, Complementary contact, NPN
DC field stability	300 mT
AC field stability	300 mT _{ss}

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
- Resistant to magnetic fields
- Auto-compensation protects against predamping
- Partially embeddable
- 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+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



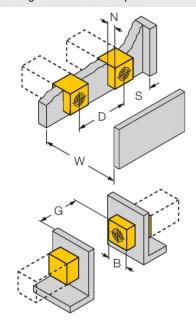
TURCK

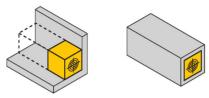
Technical data

Switching frequency	0.25 kHz
Mechanical data	
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	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	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	2 × LEDs, Green
Switching state	2 × LEDs, Yellow

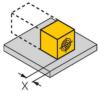
Mounting instructions

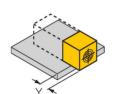
Mounting instructions/Description

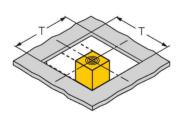












BSS-CP40

Distance D	240 mm
Distance W	105 mm
Distance S	60 mm
Distance G	300 mm
Distance N	30 mm
Width active area B	40 mm

up to 4-side flush mounting possible

1-side flush mounting: Sr = 35 mm; D = 240 mm 2-side flush mounting: Sr = 25 mm; D = 240 mm 3-side flush mounting: Sr = 20 mm; D = 80 mm 4-side flush mounting: Sr = 17 mm; D = 60 mm

back-mounting as well as recessed mounting with switching distance reduction possible

recessed sensor mounting in metal:

x = 10 mm: Sr = 20 mm

x = 20 mm: Sr = 20 mm

x = 30 mm: Sr = 20 mm

x = 40 mm: Sr = 20 mm

protruded sensor mounting on metal:

x = 10 mm: Sr = 40 mm

x = 20 mm: Sr = 50 mm

x = 30 mm: Sr = 50 mm

x = 40 mm: Sr = 50 mm

mounting in aperture plate:

T = 150 mm:

sensor with rotated turning angle

based on metal Sr = 50 mm

based on metal and one-side embedding Sr = 25 mm

based on metal and two-side embedding Sr = 15 mm

based on metal and three-side embedding Sr =

12 mm

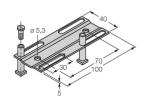
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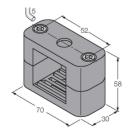
The values stated relate to 1 mm thick steel plate.

Accessories

JS025/037 69429

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





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