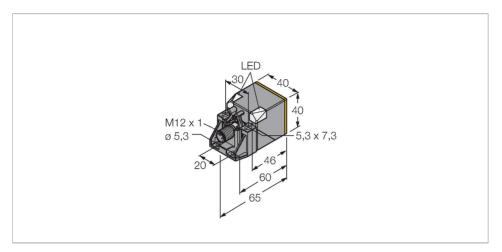


NI40UE-QV40-VN6X2-H1141 Inductive Sensor – With Extended Switching Distance





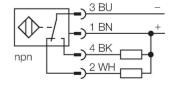
Туре	NI40UE-QV40-VN6X2-H1141	
ID	100032302	
General data		
Rated switching distance	40 mm	
Mounting conditions	Non-flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
	≤ ± 20 %, ≤ -25 °C v ≥ +70 °C	
Hysteresis	315 %	
Electrical data		
Operating voltage U _B	1030 VDC	
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}	
Switching frequency	0.25 kHz	



Features

- Rectangular, height 40 mm
- ■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
- ■DC 4-wire, 10...30 VDC
- Changeover contact, NPN output
- ■M12 x 1 male connector

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



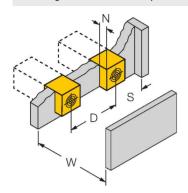
Technical data

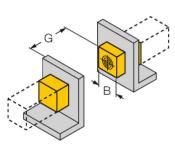
Mechanical data Design Rectangular, QV40 **Dimensions** 65 x 40 x 40 mm variable orientation of active face in 5 directions Housing material Plastic, PBT-GF30-V0, Black Active area material Plastic, PA6-GF30-X, yellow Electrical connection Connector, M12 × 1 **Environmental conditions** -30...+85 °C Ambient temperature Vibration resistance 55 Hz (1 mm) 30 g (11 ms) Shock resistance Protection class IP68 MTTF 874 years acc. to SN 29500 (Ed. 99) 40 Power-on indication 2 × LEDs, Green Switching state 2 × LEDs, Yellow Included in delivery Fixing clamp for QV40

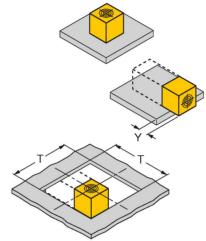
distances, maximum flexibility and operational reliability as well as efficient standardization.

Mounting instructions

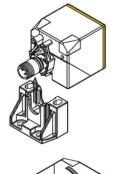
Mounting instructions/Description

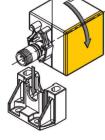


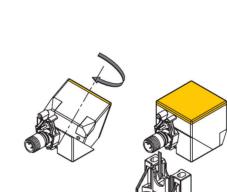




	V	







Distance D	240 mm
Distance W	120 mm
Distance T	100 mm
Distance S	60 mm
Distance G	240 mm
Distance N	40 mm
Width active area B	40 mm

Protruded mounting: y = 20 mm: Sr = 40 mm y = 30 mm: Sr = 40 mm

y = 30 mm: Sr = 40 mm y = 40 mm: Sr = 40 mm

Mounting position in aperture plate: T = 100 mm:

Twisted mounting position On metal Sr = 40 mm

The active face of the sensor can be aligned in 5 directions without tools and using only one hand.

Squeeze the bracket to release the sensor from the mounting bracket. Now, align the sensor with the active face pointing in the desired direction.

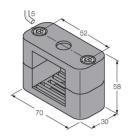
Then, snap the sensor back into the bracket. The sensor is now securely locked in position.



Accessories

BSS-CP40

6901318



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