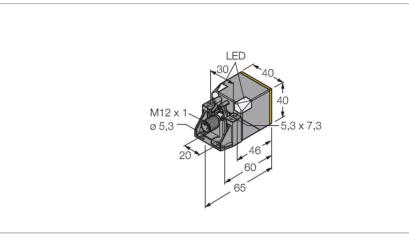


NI50U-QV40-AP6X2-H1141 Inductive Sensor – With Extended Switching Distance

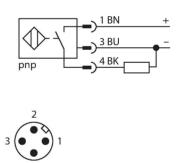


Technical data

Туре	NI50U-QV40-AP6X2-H1141
ID no.	1625853
Rated switching distance	50 mm
Mounting conditions	Non-flush, flush mountable
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-30+85 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
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 _e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Insulation class	
Switching frequency	0.25 kHz
Design	Rectangular, QV40
Dimensions	65 x 40 x 40 mm

Features

- Rectangular, height 40 mm
 Variable orientation of active face in 5 directions without tools
 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 3-wire, 10...30 VDC
- NO contact, PNP 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 distances, maximum flexibility and operational reliability as well as efficient standardization.



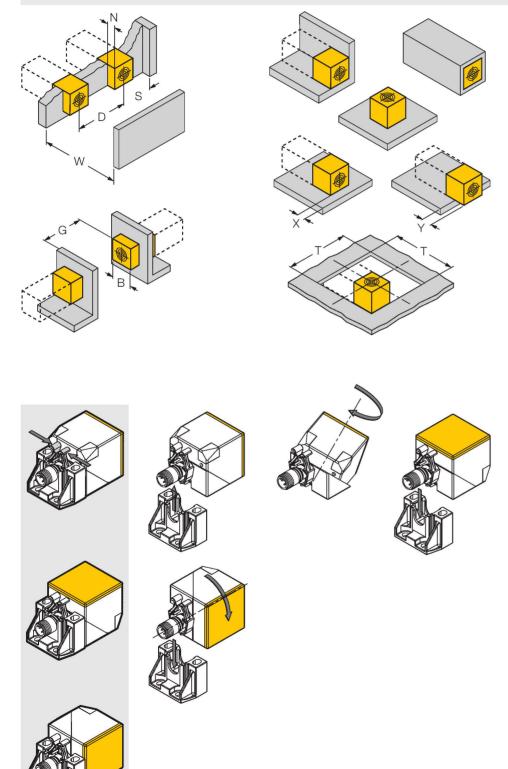
Technical data

	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
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
Included in delivery	Fixing clamp for QV40



Mounting instructions

Mounting instructions/Description



	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

Flush mounting

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

Backside as well as recessed mounting with reduced switching distance

Recessed mounting in metal:

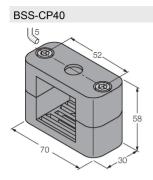
x = 10 mm: Sr = 20 mm x = 20 mm: Sr = 20 mm x = 30 mm: Sr = 20 mm x = 40 mm: Sr = 20 mm

Protruded mounting: y = 10 mm: Sr = 40 mm y = 20 mm: Sr = 50 mm y = 30 mm: Sr = 50 mm y = 40 mm: Sr = 50 mm

Mounting in aperture plate: T = 150 mm: Sensor with twisted turning angle On metal Sr = 50 mm Metal-enclosed on one side Sr = 25 mm Metal-enclosed on two sides Sr = 15 mm Metal-enclosed on three sides Sr = 12 mm With a single action the active face can be positioned in 5 directions without tools. A light squeeze of the bracket is enough to release the sensor from the fixing clamp. Afterwards, the active face can easily be twisted to change the position. Once the final position is attained, the sensor is simply inserted in the fixing clamp until the clamp snaps in. Safe and easy mounting is thus guaranteed. Sensor with twisted turning angle On metal Sr = 50 mm



Accessories



6901318

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

Wiring accessories



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