

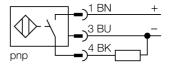
Inductive sensor NI50U-QV40-AP6X2-H1141

M12 x 1 ø 5,3 20 65			
		I	
Type code	NI50U-QV40-AP6X2-H1141		
Ident no.	1625853		
Rated switching distance Sn	50 mm		
Mounting conditions	non-flush, flush mountable	I	
Assured switching distance	\leq (0,81 x Sn) mm		
Repeatability	$\leq 2\%$ of full scale		
Temperature drift	$\leq \pm 10$ %		
	\leq ± 20 %, \leq -25 °C v \geq +70 °C		
Hysteresis	315 %		
Ambient temperature	-30+85 °C		
Operating voltage	10 30VDC		
Residual ripple	\leq 10 % U _{ss}		
DC rated operational current	≤ 200 mA		
No-load current I ₀	≤ 15 mA		
Residual current	≤ 0.1 mA		
Rated insulation voltage	\leq 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		
Protective insulation			
Switching frequency	0.25 kHz		
Construction	rectangular, QV40		
Dimensions	65 x 40 x 40 mm		
	variable orientation of active face in 5 directions		
Housing material	plastic, PBT, black		
Connection	flange connector, M12 x 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 $^\circ\mathrm{C}$		
Power-on indication	2 LEDs green		
Switching state	LED yellow		
Included in delivery	Fixing clamp for OV/40		



- 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 pre-attenuation
- Partially embeddable
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

Wiring Diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multicoil system, *uprox*®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

The active face can be aligned in 5 directions without tools. The sensor is thus installed comfortably, simply and quickly where necessary.

Included in delivery

Fixing clamp for QV40



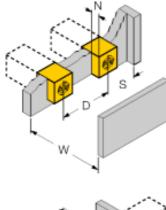
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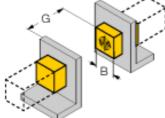


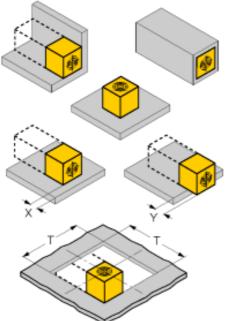
Distance D	240 mm
Distance W	105 mm
Distance S	60 mm
Distance G	300 mm
Distance N	30 mm

Width of the active face 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:

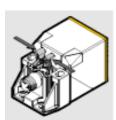
x = 10 mm: Sr = 20 mm x = 20 mm: Sr = 20 mm x = 30 mm: Sr = 20 mm x = 40 mm: Sr = 20 mm

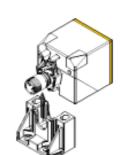
Protruded mounting: y = 10 mm: Sr = 40 mm y = 20 mm: Sr = 50 mm y = 30 mm: Sr = 50 mm y = 40 mm: Sr = 50 mm

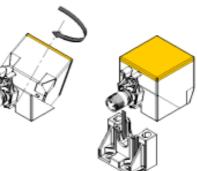
Mounting in aperture plate: T = 150 mm: Sensor with twisted turning angle On metal Sr = 50 mm Metal-enclosed on one side Sr = 25 mm Metal-enclosed on two sides Sr = 15 mm Metal-enclosed on three sides Sr = 12 mm

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.











Accessories

Type code	ldent no.	Description	Design
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	