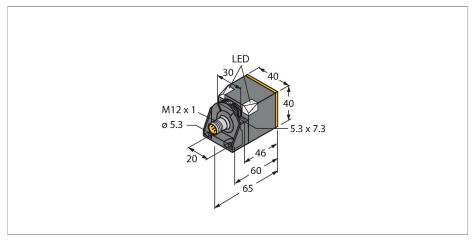


NI50U-CK40-AP6X2-H1141 Inductive sensor



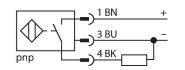
Technical data

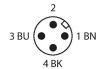
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Features

- Rectangular, height 40 mm
- Variable orientation of active face in 5 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 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 multi-coil 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.

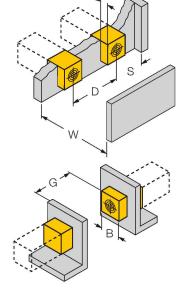


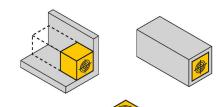
Technical data

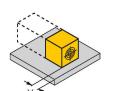
Electrical connection	Connectors, M12 \times 1		
Vibration resistance	55 Hz (1 mm)		
Shock resistance	30 g (11 ms)		
Protection class	IP68		
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C		
Power-on indication	2 × LEDs,Green		
Switching state	2 × LEDs, Yellow		
Included in delivery	Fixing clamp BS4-CK40		

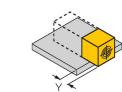
Mounting instructions

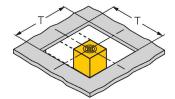
Mounting instructions/Description











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 = 15 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 mmMetal-enclosed on two sides Sr = 15 mmMetal-enclosed on three sides Sr = 12 mmThe values stated relate to a 1 mm thick steel

plate.



Accessories

BSS-CP40 Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene

Accessories

Dimension drawing	Туре	Ident. no.	
M12x1 o 15 14	RKC4T-2/TEL	6625010	Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com