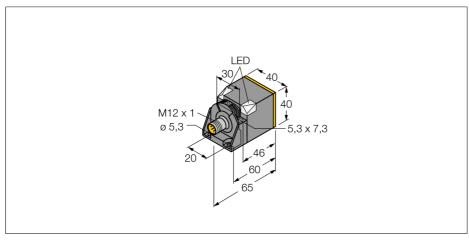


Inductive sensor NI50U-CK40-AP6X2-H1141





Туре	NI50U-CK40-AP6X2-H1141
Ident-No.	1625837
Rated operating distance Sn	50 mm
Mounting condition	non-flush, flush mountable
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
	\leq ± 20 %, \leq -25 °C v \geq +70 °C
Hysteresis	315
Ambient temperature	-30+85
Operating voltage	1030
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load currentl ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop atle	< 1.8 V

yes/ complete

≤ 0.25 kHz

3-wire, NO contact, PNP

Design	rectangular, CK40
Dimensions	65 x 40 x 40
	variable orientation of active face in 5 directions
Housing material	Plastic, PBT-GF20-V0, black

Connection connector, M12 x 1
Vibration resistance 55 Hz (1 mm)
Shock resistance 30 g (11 ms)
Protection class IP68

Wire breakage / Reverse polarity protection

Output function

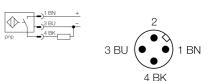
Protection class

Switching frequency

Operating voltage	2 x LEDs green
Switching state	2 x LEDs yellow
Included in scope of supply	BS4-CK40

- 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
- Extended switching distance
- Protection class IP68
- Magnetic field immune
- Predamping protection through selfcompensation
- Partial embedding
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 connector

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. uprox®+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.



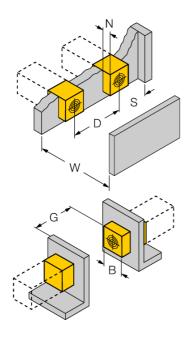
Inductive sensor NI50U-CK40-AP6X2-H1141

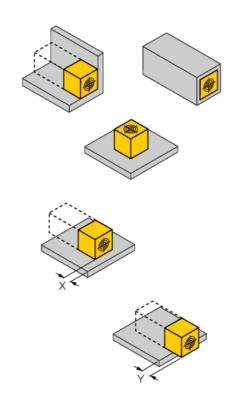


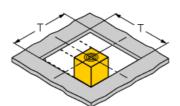
Mounting instructions	minimum distances
Distance D	240 mm
Distance W	105 mm
Distance S	60 mm
Distance G	300 mm
Distance N	30 mm

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 = 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 mm
Metal-enclosed on two sides Sr = 15 mm
Metal-enclosed on three sides Sr = 12 mm

The values stated relate to a 1 mm thick steel plate.





Accessories

Type code	Ident-No.	Short text	Dimension drawing
BSS-CP40	6901318	Fixing clamp; material: Polypropylene	70 30 58