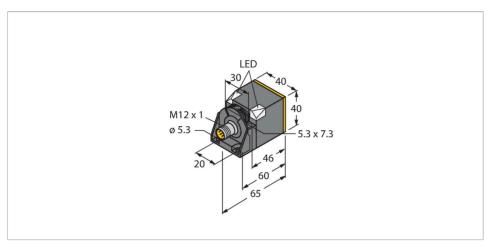


NI50U-CK40-AN6X2-H1141 Inductive Sensor



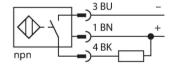
Technical data

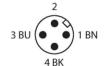
Туре	NI50U-CK40-AN6X2-H1141
Ident. no.	1625823
Rated switching distance	50 mm
Mounting conditions	Non-flush, flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-30+85 °C
Operating 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.	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, NPN
Insulation class	
Switching frequency	0.25 kHz
Design	Rectangular, CK40
Dimensions	65 x 40 x 40 mm

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 predamping
- Partially embeddable
- DC 3-wire, 10...30 VDC
- NO contact, NPN 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.



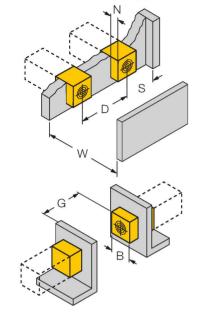
Technical data

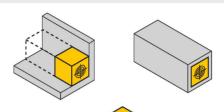
	variable orientation of active face in 5 directions
Housing material	Plastic, PBT-GF20-V0, Black
Active area material	Plastic, PA12-GF30, yellow
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	2 × LEDs, Green
Switching state	2 × LEDs, Yellow
Included in delivery	Fixing clamp BS4-CK40

TURCK

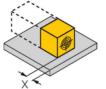
Mounting instructions

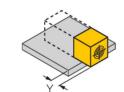
Mounting instructions/Description

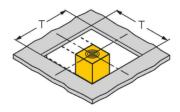












Distance D	240 mm
Distance W	105 mm
Distance S	60 mm
Distance G	300 mm
Distance N	30 mm
Width active area B	40 mm

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 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

BSS-CP40

6901318

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



Wiring accessories

Dimension drawing Type Ident. no.

RKC4T-2/TEL 6625010 Connection cable, fem



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