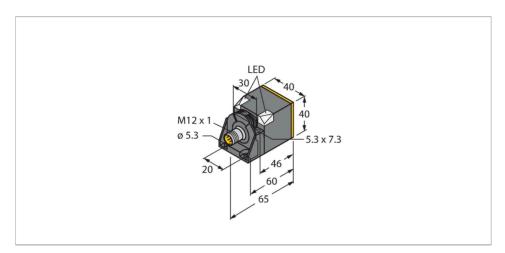


# NI35U-CK40-AP6X2-H1141 Inductive Sensor - With Increased Switching Distance



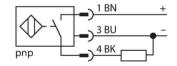
#### Technical data

<b>T</b>	NIOTIL OKAO ADOVO HAAAA
Type	NI35U-CK40-AP6X2-H1141
Ident. no.	1625800
Rated switching distance	35 mm
Mounting conditions	Non-flush, partially embeddable
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 <sub>ss</sub>
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 <sub>e</sub>	≤ 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, 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
- ■Extended temperature range
- High switching frequency
- Auto-compensation protects against predamping
- 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 Factor 1 sensors have significant advantages due to their patented ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

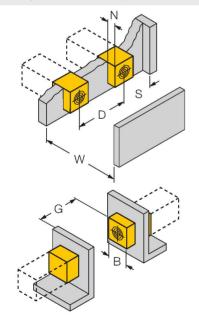


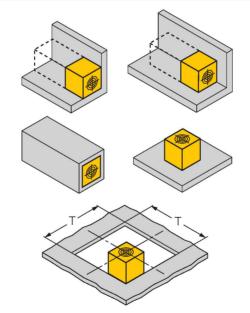
#### Technical data

	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
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# Mounting instructions

#### Mounting instructions/Description





Distance D	120 mm
Distance W	105 mm
Distance T	140 mm
Distance S	60 mm
Distance G	210 mm
Distance N	30 mm
Width active area B	40 mm

Flush mounting

1-side mounting: Sr = 28 mm

2-side mounting: Sr = 24 mm

3-side mounting: Sr = 19 mm

Backside mounting with full switching distance.

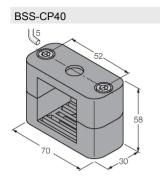
Recessed mounting with reduced switching distance.

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

NI35U-CK40-AP6X2-H1141| 12/03/2020 03-29 | technical changes reserved



#### Accessories



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, 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