

Inductive sensor With increased switching distance NI40U-CK40-AP6X2-H1141

LED

46

60

1623641

40 mm

Non-flush

≤ ± 10 %

3...15 %

-30...+85 °C

10...30 VDC

< 10 % U.,

≤ 200 mA < 15 mA

 \leq 0.1 mA

 $\leq 0.5 \ kV$

 \leq 1.8 V

0.25 kHz

ves/ Cyclic

yes/ Complete

Rectangular,CK40

65 x 40 x 40 mm

3-wire, NO contact, PNP

Plastic, PBT-GF20-V0, Black

Plastic, PA12-GF30, yellow

Connectors, M12 × 1

55 Hz (1 mm)

30 g (11 ms)

2 × LEDs,Green

2 × LEDs, Yellow

Fixing clamp BS4-CK40

IP67

variable orientation of active face in 5 directions

874 years acc. to SN 29500 (Ed. 99) 40 °C

≤ (0,81 x Sn) mm

 \leq 2 % of full scale

65

5.3 x 7.3

NI40U-CK40-AP6X2-H1141

 \leq \pm 20 %, \leq -25 °C v \geq +70 °C

M12 x 1

20

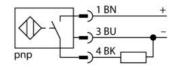
ø 5.3



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**
- Large coverage
- **Resistant to magnetic fields** ÷.
- Extended temperature range
- **High switching frequency**
- 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. uprox® Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

.,,,
Ident no.
Rated switching distance Sn
Mounting conditions
Secured operating distance
Repeat accuracy
Temperature drift
Hysteresis
Ambient temperature
Operating voltage
Residual ripple
DC rated operational current
No-load current I ₀
Residual current
Isolation test voltage
Short-circuit protection
Voltage drop at I _e
Wire breakage/Reverse polarity protection
Output function
Protection class

Design Dimensions

Type designation

Housing material Active area material Electrical connection Vibration resistance Shock resistance Protection class MTTF

Switching frequency

Power-on indication

Switching state Included in delivery

Edition • 2019-02-15T20:30:26+01:00



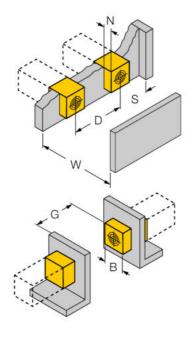


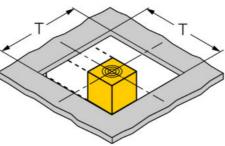
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Distance D	240 mm
Distance W	120 mm
Distance S	60 mm
Distance G	240 mm
Distance N	40 mm

Width active area B

40 mm





Flush mounting

- 1-side mounting: Sr = 30 mm; D = 240 mm
- 2-side mounting: Sr = 24 mm; D = 240 mm
- 3-side mounting: Sr = 19 mm; D = 80 mm
- 4-side mounting: Sr = 12 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 = 30 mm y = 20 mm: Sr = 40 mm y = 30 mm: Sr = 40 mm y = 40 mm: Sr = 40 mm

Mounting in aperture plate: T = 140 mm: Sensor with twisted turning angle On metal Sr = 40 mm Metal-enclosed on one side Sr = 30mm Metal-enclosed on two sides Sr = 20mm Metal-enclosed on three sides Sr = 15 mm

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





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Accessories

Type code	Ident no.	Description	
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	70 30 50 50 50 50 50 50 50 50 50 50 50 50 50