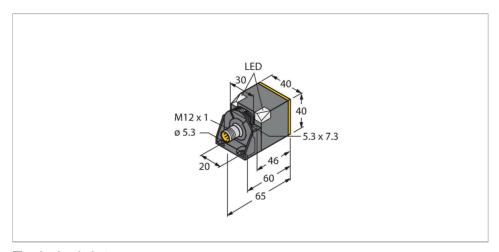


BI30U-CK40-AN6X2-H1141 Inductive Sensor – With Extended Switching Distance





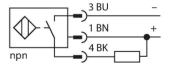
Type	BI30U-CK40-AN6X2-H1141
ID	1625820
General data	
Rated switching distance	30 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 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 _e	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, NPN
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	
Switching frequency	0.25 kHz



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
- Protection class IP68
- Resistant to magnetic fields
- ■Large coverage
- High switching frequency
- ■DC 3-wire, 10...30 VDC
- ■NO contact, NPN output
- ■M12 x 1 male connector

Wiring diagram





Functional principle



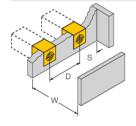
Technical data

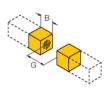
Mechanical data	
Design	Rectangular, CK40
Dimensions	65 x 40 x 40 mm
	variable orientation of active face in 5 directions
Housing material	Plastic, PBT-GF20-V0, Black
Active area material	Plastic, PA12-GF30, yellow
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-10+60 °C
Ambient temperature Vibration resistance	-10+60 °C 55 Hz (1 mm)
- <u> </u>	
Vibration resistance	55 Hz (1 mm)
Vibration resistance Shock resistance	55 Hz (1 mm) 30 g (11 ms)
Vibration resistance Shock resistance Protection class	55 Hz (1 mm) 30 g (11 ms) IP68 874 years acc. to SN 29500 (Ed. 99) 40
Vibration resistance Shock resistance Protection class MTTF	55 Hz (1 mm) 30 g (11 ms) IP68 874 years acc. to SN 29500 (Ed. 99) 40 °C
Vibration resistance Shock resistance Protection class MTTF Power-on indication	55 Hz (1 mm) 30 g (11 ms) IP68 874 years acc. to SN 29500 (Ed. 99) 40 °C 2 × LEDs, Green

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Mounting instructions

Mounting instructions/Description







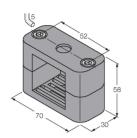
Distance D	80 mm
Distance W	90 mm
Distance S	40 mm
Distance G	180 mm
Width active area B	40 mm
(sheet metal, e.g., a step be fully embedded in me of the target.	



Accessories

BSS-CP40

6901318



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

Wiring accessories

Dimension drawing

Type RKC4T-2/TEL ID 6625010

Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

