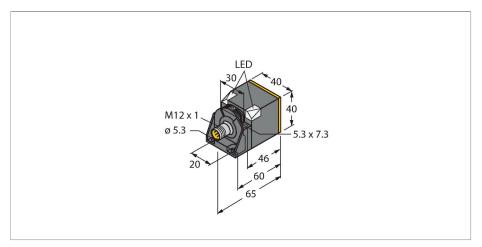


BI30U-CK40-AP6X2-H1141 Inductive Sensor – With Extended Switching Distance





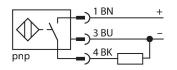
General data Rated switching distance 30 r Mounting conditions Flus Gecured operating distance ≤ (0	
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Secured operating distance ≤ (0	
).81 × Sn) mm
Repeat accuracy ≤ 2	
	% of full scale
「emperature drift ≤ ±	10 %
Hysteresis 3	15 %
Electrical data	
Operating voltage U _B 10	30 VDC
Ripple U _{ss} ≤ 10	0 % U _{Bmax}
OC rated operating current I _e ≤ 20	00 mA
No-load current ≤ 15	5 mA
Residual current ≤ 0.	.1 mA
solation test voltage 0.5	kV
Short-circuit protection yes.	/Cyclic
/oltage drop at I _e ≤ 1.	8 V
Vire break/reverse polarity protection yes.	/Complete
Output function 3-w	ire, NO contact, PNP
DC field stability 300	mT
AC field stability 300	mT _{ss}
nsulation class	
Switching frequency 0.25	5 kHz
Mechanical data	
Design Red	ctangular, CK40
Dimensions 65 x	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
- Protection class IP68
- Resistant to magnetic fields
- ■Large coverage
- High switching frequency
- ■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+ 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.

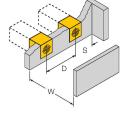


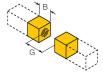
Technical data

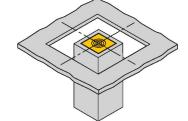
	variable orientation of active face in 5 directions
Housing material	Plastic, PBT-GF20-V0, Black
Active area material	Plastic, PA12-GF30, yellow
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-10+60 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 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

Mounting instructions

Mounting instructions/Description





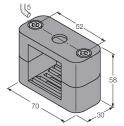


Distance D	80 mm
Distance W	90 mm
Distance S	40 mm
Distance G	180 mm
Width active area B	40 mm

When installing the sensor in an aperture plate (sheet metal, e.g., a step plate) the sensor must be fully embedded in metal for reliable detection of the target.

Accessories

BSS-CP40



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

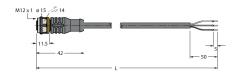
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Accessories

Dimension drawing Type ID

RKC4T-2/TEL 6625010 Connection cable, M12 female



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