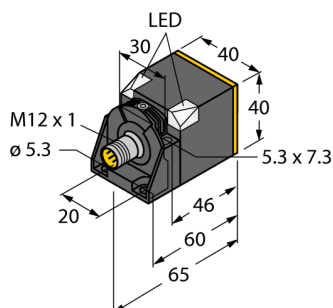




- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply voltage and switching state from any position
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large coverage
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M12 x 1 male connector

Type designation BI30U-CK40-AN6X2-H1141 W/BS 4
Ident-No. 1625820

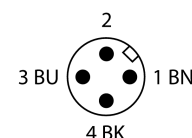
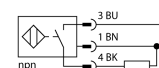
Rated switching distance S_n 30 mm
Mounting conditions Flush
Secured operating distance $\leq (0,81 \times S_n)$ mm
Repeat accuracy $\leq 2\%$ of full scale
Temperature drift $\leq \pm 10\%$
Hysteresis 3...15 %
Ambient temperature -10...+60 °C

Operating voltage 10...30 VDC
Residual ripple $\leq 10\% U_{ss}$
DC rated operational current ≤ 200 mA
No-load current I_0 ≤ 15 mA
Residual current $\leq 0,1$ mA
Isolation test voltage $\leq 0,5$ kV
Short-circuit protection yes/ Cyclic
Voltage drop at I_0 $\leq 1,8$ V
Wire breakage/Reverse polarity protection yes/ Complete
Output function 3-wire, NO contact, NPN
Protection class
Switching frequency 0.25 kHz

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 x 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 x LEDs, Green
Switching state 2 x LEDs, Yellow
Included in delivery Fixing clamp BS4-CK40

Wiring Diagram

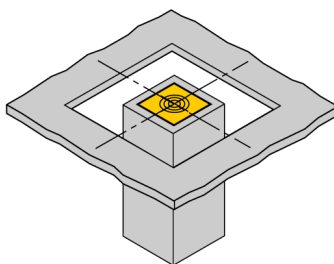
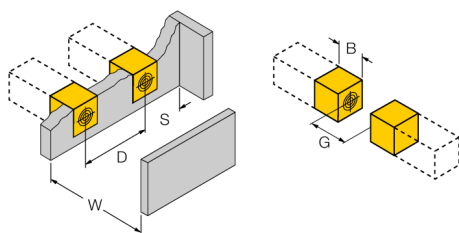


Functional principle

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.

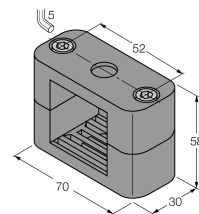
Distance D	80 mm
Distance W	90 mm
Distance S	40 mm
Distance G	180 mm

Width active area B	40 mm
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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

Type code	Ident-No.	Description	
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	

Wiring accessories

Type code	Ident-No.	Description	
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	