

- 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 detection range
- High switching frequency
- 3-wire DC, 10...30 VDC
- NO contact, NPN output
- Male M12 x 1

**Type code** BI30U-CK40-AN6X2-H1141  
**Ident no.** 1625820

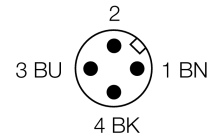
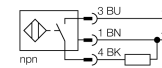
**Rated operating distance Sn** 30 mm  
**Mounting condition** flush  
**Assured sensing range** ≤ (0,81 x Sn) mm  
**Repeatability** ≤ 2 % of full scale  
**Temperature drift** 10 %  
**Hysteresis** 3...15 %  
**Ambient temperature** -10...+60 °C

**Operating voltage** 10...30VDC  
**Residual ripple** ≤ 10 % U<sub>ss</sub>  
**DC rated operational current** ≤ 200 mA  
**No-load current I<sub>0</sub>** ≤ 15 mA  
**Residual current** ≤ 0.1 mA  
**Rated insulation voltage** ≤ 0.5 kV  
**Short-circuit protection** yes/ cyclic  
**Voltage drop at I<sub>0</sub>** ≤ 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, black  
**Connection** male, 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** LED yellow  
**Included in scope of supply** 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.

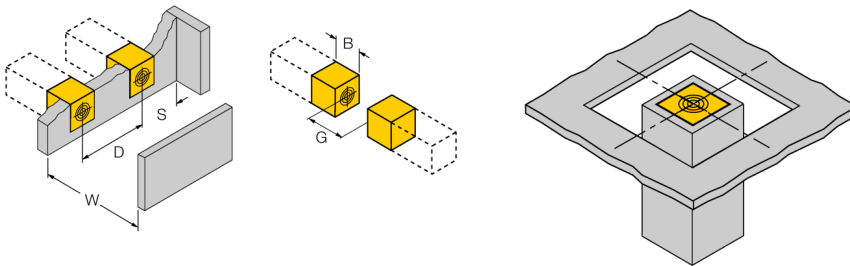
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Distance D	80 mm
Distance W	90 mm
Distance S	40 mm
Distance G	180 mm

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Width of the active face 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	Dimension drawing
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	

### Wiring accessories

Type code	Ident no.	Description	Dimension drawing
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 <a href="http://www.turck.com">www.turck.com</a>	