

- 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
- Resistant to magnetic fields
- 2-wire DC, 10...65 VDC
- NO contact
- Male M12 x 1

Type code Bi15U-CK40-AD4X-H1144
Ident no. 4280032

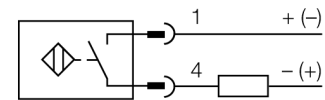
Rated operating distance S_n 15 mm
Mounting condition flush
Assured sensing range $\leq (0,81 \times S_n)$ mm
Repeatability $\leq 2\%$ of full scale
Temperature drift 10 %
 $\leq \pm 15\%$, $\leq -25\text{ °C}$ v $\geq +70\text{ °C}$
Hysteresis 3...20 %
Ambient temperature -25...+70 °C

Operating voltage 10...65VDC
Residual ripple $\leq 10\%$ U_{ss}
DC rated operational current ≤ 100 mA
Residual current $\leq 0,8$ mA
Rated insulation voltage $\leq 0,5$ kV
Short-circuit protection yes/ cyclic
Voltage drop at I_n ≤ 5 V
Smallest operating current I_m ≤ 3 mA
Switching frequency 0.01 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 BS1-CK40

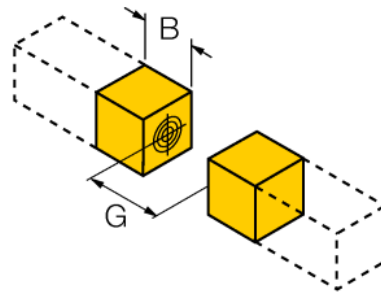
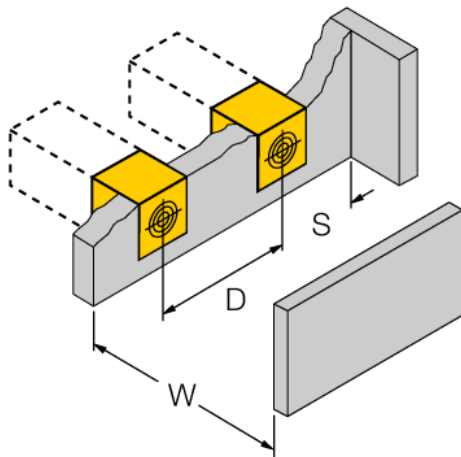
Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*®+ sensors have distinct advantages compared to conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Distance D	80 mm
Distance W	45 mm
Distance S	40 mm
Distance G	90 mm
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Width of the active face B	40 mm



Isolating switching amplifiers can be applied because uprox[®]+ 2-wire DC sensors work with 8 VDC low operating voltage (limited load current 50 mA).

The sensors can be operated with the TURCK remote I/O fieldbus system BL20. In combination with the BL20-4DI-NAMUR slice, wire-break or short-circuit events are immediately detected.

Accessories

Type code	Ident no.	Description	Dimension drawing
BL20-4DI-NAMUR	6827212	4 digital inputs acc. to EN 60947-5-6. For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors.	
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 www.turck.com	