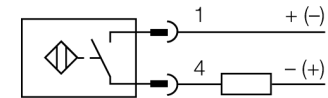


- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply voltage and switching state from any position
- Factor 1 for all metals
- Resistant to magnetic fields
- 2-wire DC, 10...65 VDC
- NO contact
- Male M12 x 1

Type code	Ni35U-CK40-AD4X-H1144
Ident no.	4280232

Wiring diagram

Rated operating distance S_n	35 mm
Mounting condition	non-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



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.

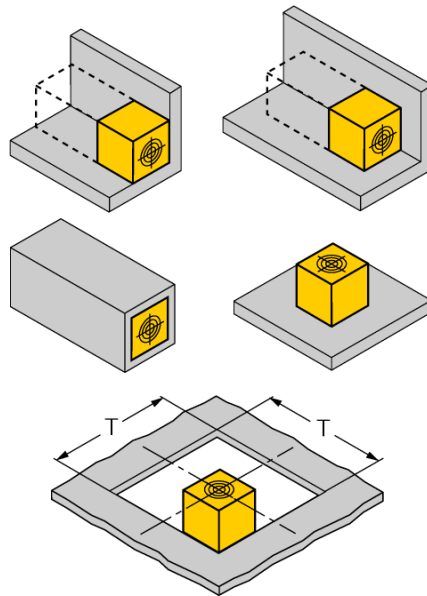
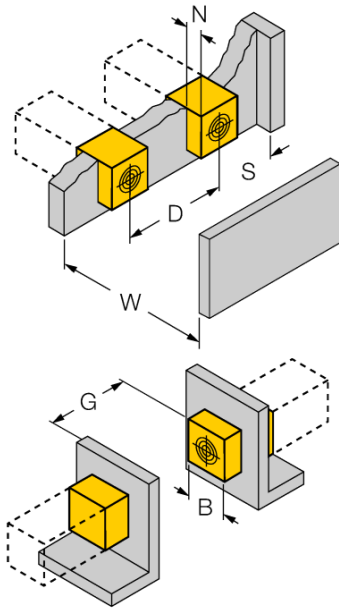
Operating voltage	10...65VDC
Residual ripple	$\leq 10\%$ U_{ss}
DC rated operational current	≤ 100 mA
Residual current	$\leq 0,8$ mA
Rated insulation voltage	$\leq 0,5$ kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_n	≤ 5 V
Smallest operating current I_m	≤ 3 mA
Switching frequency	0.01 kHz

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	Fixing clamp BS4-CK40

Distance D	120 mm
Distance W	105 mm
Distance T	140 mm
Distance S	60 mm
Distance G	210 mm
Distance N	30 mm

Width of the active face B 40 mm



Flush mounting

- 1-side mounting: $S_r = 28$ mm
- 2-side mounting: $S_r = 24$ mm
- 3-side mounting: $S_r = 19$ mm
- 4-side mounting: $S_r = 12$ mm

Backside mounting with full switching distance.

Recessed mounting with reduced switching distance.

The values stated relate to a 1 mm thick steel plate.

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

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

Accessories

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

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	