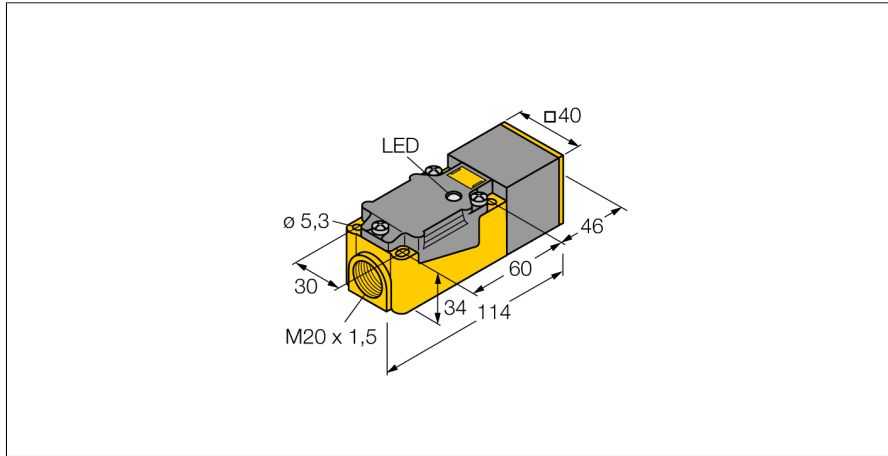


Inductive sensor BI15-CP40-AD4X

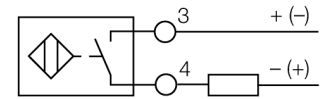
TURCK

Industrial
Automation



- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- 2-wire DC, 10...65 VDC
- NO contact
- Terminal chamber

Wiring diagram



Type code	BI15-CP40-AD4X
Ident no.	44660
Rated operating distance S_n	15 mm
Mounting condition	flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	$\leq 2\%$ of full scale
Temperature drift	10 %
Hysteresis	1...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...65VDC
Residual ripple	$\leq 10\%$ U_{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_n	≤ 5 V
Smallest operating current I_m	≤ 3 mA
Switching frequency	0.15 kHz
Design	rectangular, CP40
Dimensions	114 x 40 x 40 mm
Housing material	plastic, PBT, black
Connection	terminal chamber
Clamping ability	≤ 2.5 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

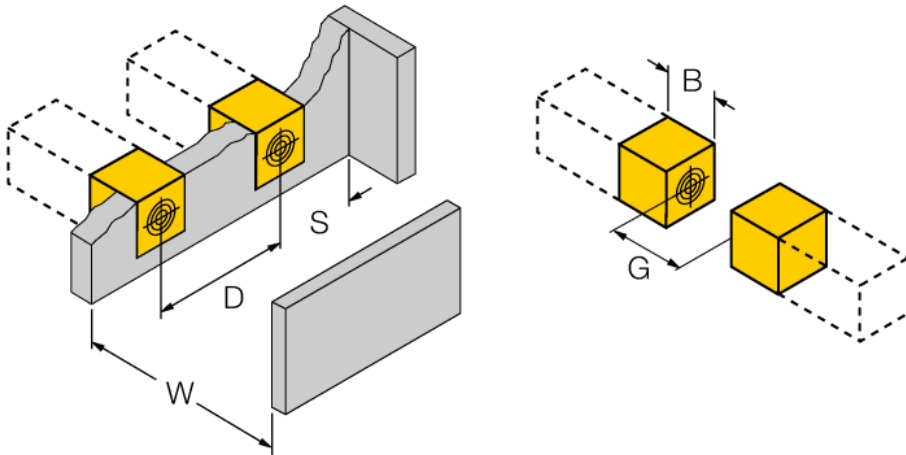
Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

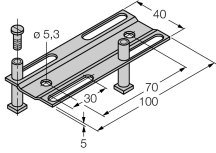
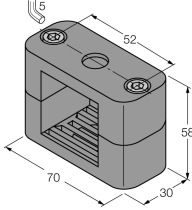
We offer special versions for temperatures of -60 °C up to +250 °C.

**Inductive sensor
BI15-CP40-AD4X**

Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
<hr/>	
Width of the active face B	40 mm



Accessories

Type code	Ident no.	Description	Dimension drawing
Adjusting bar JS 025/037	69429	Adjusting bar for rectangular housings CK/CP40; material: VA 1.4301	 <p>The drawing shows a perspective view of a metal adjusting bar. It has a total length of 100 mm. The distance between the two mounting holes is 70 mm. The width of the bar is 40 mm. The thickness is 5 mm. The diameter of the mounting holes is 5.3 mm. The bar is shown with two screws inserted into the holes.</p>
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	 <p>The drawing shows a perspective view of a rectangular mounting bracket. The overall dimensions are 70 mm in length, 52 mm in width, and 30 mm in height. The top surface has two circular mounting holes, each with a diameter of 5 mm. The bottom surface features a series of vertical slots for device mounting.</p>