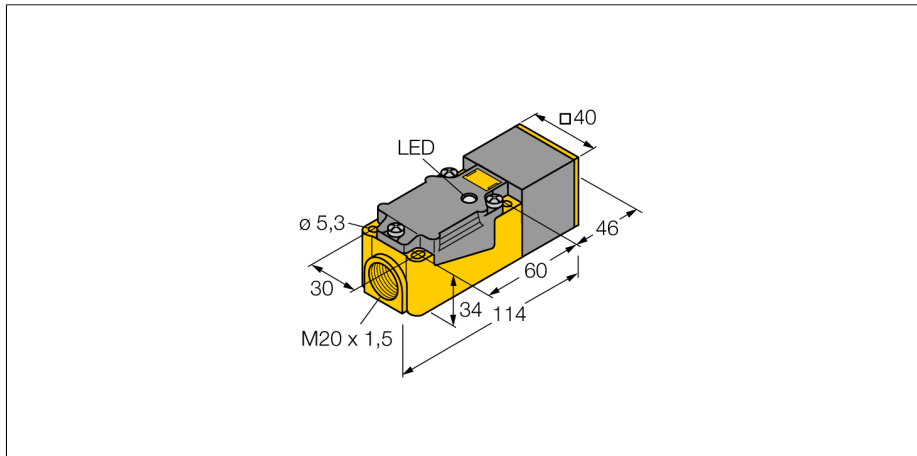


Inductive sensor BI15-CP40-AD4X

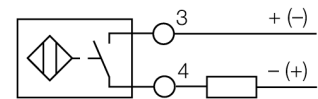
TURCK

Industrial
Automation



- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- DC 2-wire, 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	≤ (0,81 x S _n) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
Hysteresis	1...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...65VDC
Residual ripple	≤ 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 _s	≤ 5 V
Smallest operating current I _m	≤ 3 mA
Switching frequency	0.15 kHz
Design	rectangular, CP40
Dimensions	114x 40x 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	● yellow

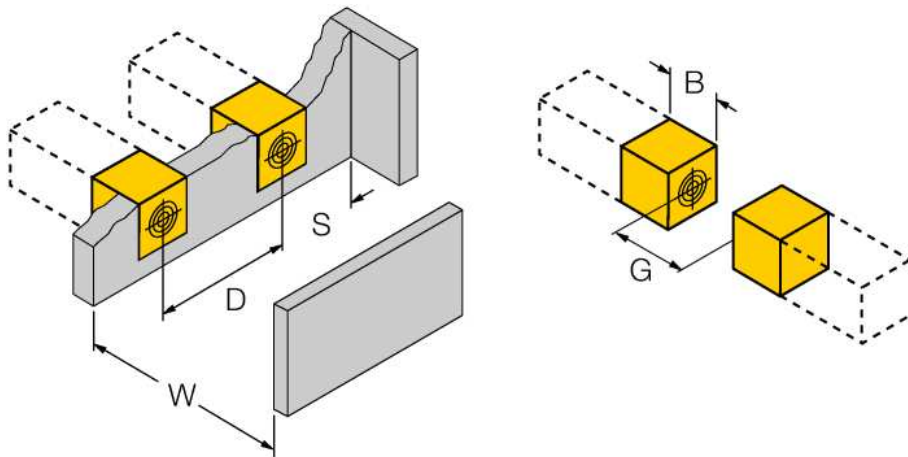
Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

**Inductive sensor
BI15-CP40-AD4X**

Distance D	$2 \times B$
Distance W	$3 \times S_n$
Distance S	$1 \times B$
Distance G	$6 \times S_n$

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	
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	