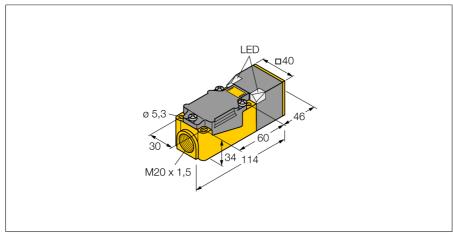
## Inductive sensor BI15-CP40-VP4X2

Power-on indication

Switching state





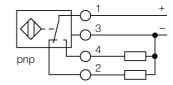
Type code	BI15-CP40-VP4X2		
ldent no.	15690		
Rated operating distance Sn	15 mm		
Mounting condition	flush		
Assured sensing range	≤ (0,81 x Sn) mm		
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.		
Repeatability	≤ 2 % of full scale		
Temperature drift	10 %		
Hysteresis	315 %		
Ambient temperature	-25+70 °C		
Operating voltage	1065VDC		
Residual ripple	≤ 10 % U <sub>ss</sub>		
DC rated operational current	≤ 200 mA		
No-load current I₀	≤ 15 mA		
Residual current	≤ 0.1 mA		
Rated insulation voltage	≤ 0.5 kV		
Short-circuit protection	yes		
Voltage drop at I <sub>e</sub>	≤ 1.8 V		
Wire breakage / Reverse polarity protection	yes/ complete		
Output function	4-wire, changover contact, PNP		
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	$\leq$ 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		

2 x LEDs green

LED yellow

- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum view on supply voltage and switching state from any position
- 4-wire DC, 10...65 VDC
- Changeover contact, PNP output
- Terminal chamber

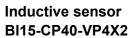
#### Wiring diagram



#### **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  $^{\circ}$ C up to +250  $^{\circ}$ C.



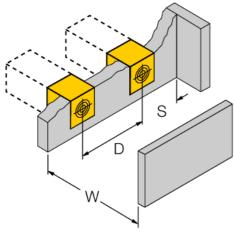
Width of the active face B

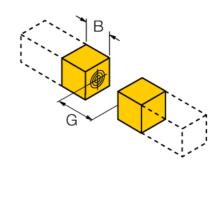


Distance D	2 x B	
Distance W	3 x Sn	
Distance S	1 x B	
Distance G	6 x Sn	

40 mm







# Inductive sensor BI15-CP40-VP4X2



### Accessories

Type code	ldent no.	Description	Dimension drawing
STRM M20X1,5 BLACK	6965902	Cable glands M20 x 1.5	M20 x 1,5 Ø 510 Ø 38
Adjusting bar JS 025/037	69429	Adjusting bar for rectangular housings CK/CP40; material: VA 1.4301	0 5.3 0 5.3 70 100
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	70 30