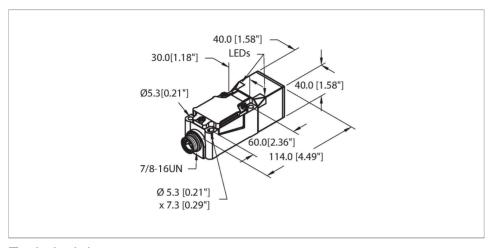


BI15-CP40-FZ3X2-B1131/S100 Inductive Sensor – With Increased Temperature Range



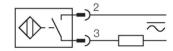
Technical data

Туре	BI15-CP40-FZ3X2-B1131/S100
ID	1341099
Special version	S100 Corresponds to:Maximum ambient temperature = 100 °C
General data	
Rated switching distance	15 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
	≤ ± 20 %, ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	20250 VAC
Operating voltage U _B	10300 VDC
AC rated operational current	≤ 400 mA
DC rated operating current I _e	≤ 300 mA
Rated operational current	See derating curve
Frequency	≥ 50≤ 60 Hz
Residual current	≤ 1.7 mA
Isolation test voltage	1.5 kV
Surge current	≤ 8 A (≤ 10 ms max. 5 Hz)
Voltage drop at I _e	≤ 6 V
Output function	2-wire, Connection programmable, 2-wire

Features

- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- ■Plastic, PBT-GF30-VO
- High-luminance corner LEDs
- Optimum view of operating voltage and switching state from any position
- ■Temperatures up to +100 °C
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- ■7/8" connector

Wiring diagram

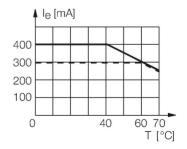


Functional principle

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.

Special versions are available for ambient

Special versions are available for ambient temperatures between -60°C and +250°C.

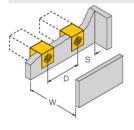


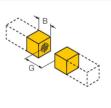
Technical data

Smallest operating current	≥ 3 mA
Switching frequency	0.02 kHz
Mechanical data	
Design	Rectangular, CP40
Dimensions	114 x 40 x 40 mm
Housing material	Plastic, PBT-GF30-V0, Black
Active area material	Plastic, PBT-GF30-V0, yellow
Connector housing	metal
Electrical connection	Connector, 7/8"
Environmental conditions	
Ambient temperature	-25+100 °C
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
Power-on indication	2 × LEDs, Green
Switching state	2 × LEDs, Red

Mounting instructions

Mounting instructions/Description





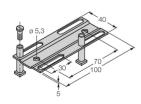
Distance D	2 × B
Distance W	3 x Sn
Distance S	1 × B
Distance G	6 x Sn
Width active area B	40 mm

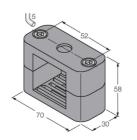
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Accessories

JS025/037 69429

Adjusting bar for rectangular housings CK/CP40; material: VA 1.4301





BSS-CP40

Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene