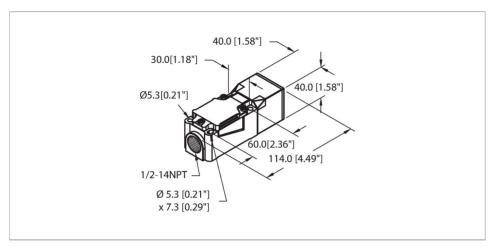


BI15-CP40-FZ3X2/S100-S10 Inductive Sensor – With Increased Temperature Range



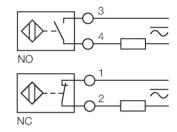
Technical data

Type	BI15-CP40-FZ3X2/S100-S10
ID	13776
Remark to product	Sensor without printed type designation or CE marking, for TUSA internal use only Identical to sensor with ID 4417063
Special version	S100-S10 Corresponds to:Mounting base with 1/2-14NPT thread 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
	Can denating ourse
Rated operational current	See derating curve
Rated operational current Frequency	≥ 50≤ 60 Hz
·	

Features

- 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
- ■Temperatures up to +100 °C
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- Programmable connection (NC or NO)
- ■Terminal chamber

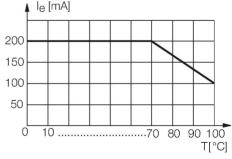
Wiring diagram



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 temperatures between -60°C and +250°C.



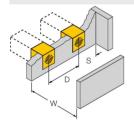


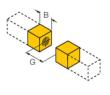
Technical data

Surge current	≤ 8 A (≤ 10 ms max. 5 Hz)
Voltage drop at I _e	≤ 6 V
Output function	2-wire, Connection programmable, 2-wire
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
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
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	LED, Green
Switching state	LED, Red

Mounting instructions

Mounting instructions/Description





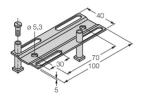
Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
Width active area B	40 mm



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

