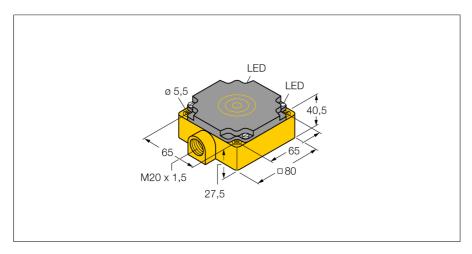
Inductive sensor BI40-CP80-FZ3X2





Type code	BI40-CP80-FZ3X2
Ident-No.	13404

Rated operating distance Sn	40 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
Hysteresis	315 %
Ambient temperature	-25+70 °C

Operating voltage	20250 VAC
Operating voltage	10300VDC
AC rated operational current	≤ 400 mA
DC rated operational current	≤ 300 mA
Frequency	≥ 50≤ 60 Hz
Residual current	≤ 1.7 mA
Rated insulation voltage	≤ 1.5 kV
Surge current	≤ 8 A (≤ 10 ms max. 5 Hz)

Voltage drop at I. ≤ 6 V

Output function 2-wire, connection programmable

Smallest operating current $I_{\scriptscriptstyle m}$ \leq 3 mA Switching frequency 0.01 kHz

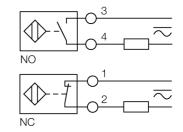
Design	rectangular, CP80
Dimensions	80 x 80 x 41 mm
Housing material	plastic, PBT
Connection	terminal chamber
Clamping ability	\leq 2.5 mm 2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67

MTTF 2283 years acc. to SN 29500 (Ed.99) 40 °C

Power-on indication LED green LED red Switching state

- Rectangular, height 41 mm
- Plastic, PBT-GF30-V0
- AC 2-wire, 20...250 VAC
- 2-wire DC, 10...300 VDC
- NC/NO programmable
- Terminal chamber

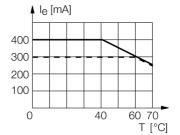
Wiring diagram



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 °C up to +250 °C.



Inductive sensor BI40-CP80-FZ3X2



Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
Width of the active face B	80 mm

