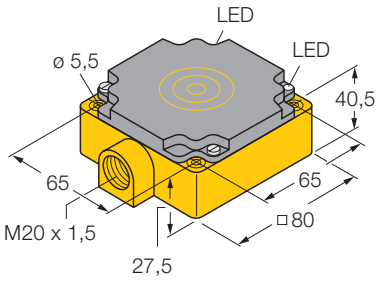
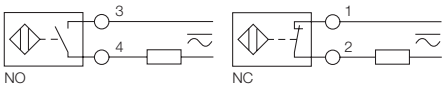
Inductive sensor

Ni40-CP80-FZ3X2



- **rectangular, height 41 mm**
- **plastic, PBT-GF30-V0**
- **2-wire AC, 20...250 VAC;**
- **2-wire DC, 20...300 VDC**
- **connection programmable (n.c./ n.o.)**
- **terminal chamber**

Wiring diagram



Type	Ni40-CP80-FZ3X2
Ident-No.	13405
Rated operating distance Sn	40 mm
Mounting mode	non-flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (AC) U_B	20... 250 VAC
Rated operational voltage (DC) U_B	10... 300 VDC
Rated operational current (AC) I_e	≤400 mA
Rated operational current (DC) I_e	≤ 300 mA
Line frequency	50... 60 Hz
Max. OFF-state current	≤ 1,7 mA
Max. switching frequency	≤ 0,02 kHz
Rated insulation voltage	≤ 1,5 kV
Surge Current	≤8 A (≤10 ms max. 5 Hz)
Output function	2-wire, connection programmable
Max. voltage drop at I_e	≤ 6 V
Min. operational current I_m	≥ 3 mA
Housing style	rectangular; CP80
Dimensions	80 x 80 x 41 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	terminal chamber
Clamping ability	≤2,5 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow

Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

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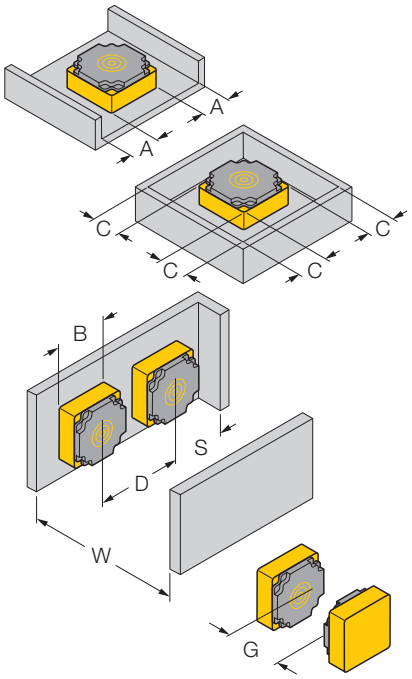
Mounting instructions	minimum gap
Gap D	3 x B
Gap W	3 x Sn
Gap S	1,5 x B
Gap G	6 x Sn
Gap N	1 x B
Gap A	1 x B
Gap C	1 x B
Width of active face B	80 mm



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