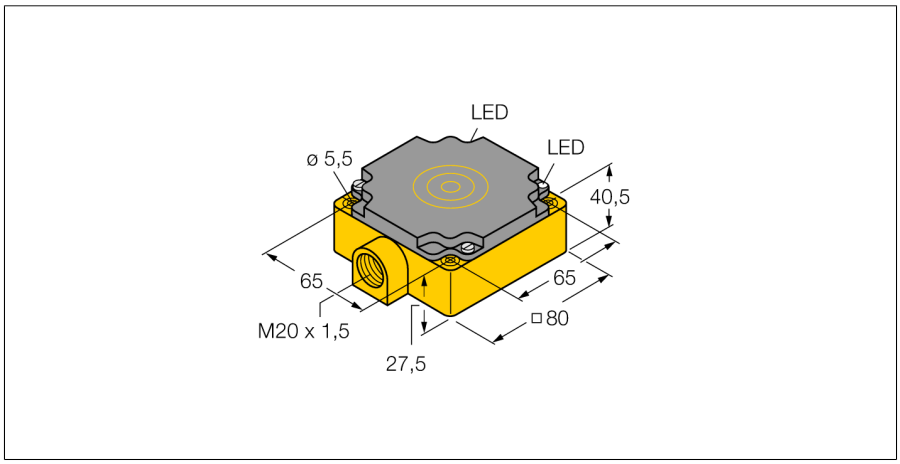
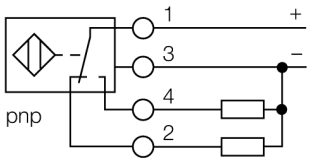
Capacitive sensor
NC50-CP80-VP4X2



- **Rectangular, height 40.5 mm**
- **Active face on top**
- **Plastic, PBT12-GF30-V0**
- **Fine adjustment via potentiometer**
- **DC 4-wire, 10…65 VDC**
- **Changeover contact, PNP output**
- **Terminal chamber**

Wiring Diagram



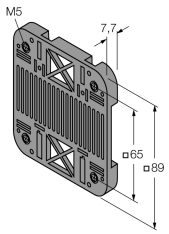
Type designation	NC50-CP80-VP4X2
Ident no.	2580202
Rated switching distance (non-flush)	50 mm
Assured switching distance	≤ (0.72 x Sn) mm
Hysteresis	2…20 %
Temperature drift	type 20 %
Repeatability	≤ 2 % of full scale
Ambient temperature	-25…+70 °C
Operating voltage	10… 65VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 20 mA
Residual current	≤ 0.1 mA
Switching frequency	0.07 kHz
Isolation test voltage	≤ 0.5 kV
Output function	4-wire, complementary, PNP
Short-circuit protection	yes/ cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Approvals	UL
	ABS
Construction	rectangular, CP80
Dimensions	80 x 80 x 40.5 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	Plastic, PBT-GF30-V0, yellow
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green
Switching state	LED yellow
Width of the active face B	80 mm

Functional principle

Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

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Accessories

Type code	Ident no.	Description	
SMBDX80DIN	3077161	Mounting panel for DIN rail, suited for CP80, DX80, K80, Q80, operating temperature. -20…+90°C	

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