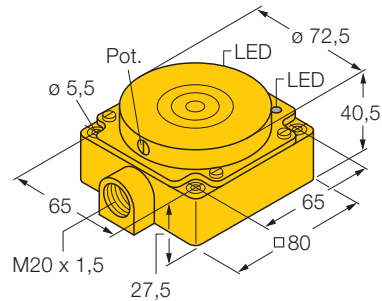


capacitive sensor NC50-CP80-VP4X2

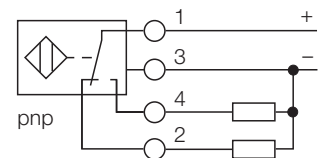
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- rectangular, height 40.5mm
- top active face
- plastic, PBT12-GF30-V0
- fine adjustment via potentiometer
- 4-wire DC, 10...65 VDC
- change-over, pnp output
- Terminal chamber

Wiring diagram



Functional principle

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

Type	NC50-CP80-VP4X2
Ident-No.	2580202
Rated operating distance S_n	50 mm, non-flush mounting
Hysteresis	2... 20 %
Temperature drift	$\leq \pm 20 \%$
Repeatability	$\leq 2 \%$
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 65 VDC
Residual ripple	$\leq 10 \% U_{ss}$
DC rated operational current	$\leq 200 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Switching frequency	$\leq 0.2 \text{ kHz}$
Rated insulation voltage	$\leq 0.5 \text{ kV}$
Output function	4-wire, Two-way contact, PNP
Short-circuit protection	yes / cyclic
Voltage drop at I_e	$\leq 1.8 \text{ V}$
Wire breakage / Reverse polarity protection	yes / complete
Housing	rectangular, CP80
Dimensions	80 x 80 x 40.5 mm
Housing material	Plastic, PBT-GF30-V0
Material active face	Plastic, PBT-GF30-V0
Electrical connection	Terminal chamber
Clamping ability	$\leq 2.5 \text{ mm}^2$
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection class	IP67
Operating voltage display	LED green
Display switch state	LED yellow

capacitive sensor
NC50-CP80-VP4X2

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
SMBDX80DIN	3077161	Backplane for DIN rail, suited for CP80, DX80, K80, Q80	