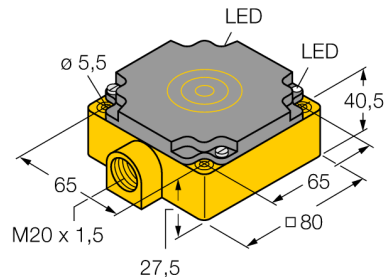


Capacitive sensor NC50-CP80-VN4X2

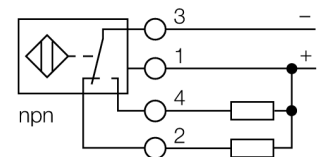
TURCK

Industrial
Automation



- 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, NPN output
- Terminal chamber

Wiring diagram



Functional principle

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

Type code	NC50-CP80-VN4X2
Ident no.	2580102
Rated operating distance Sn	50 mm, non-flush mounting
Assured sensing range	$\leq (0.72 \times S_n)$ mm
Hysteresis	2...20 %
Temperaturdrift	type $\leq \pm 20$ %
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	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	4-wire, changover contact, NPN
Short-circuit protection	yes/ cyclic
Voltage drop at I_0	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Design	rectangular, CP80
Dimensions	80x 80x 40.5 mm
Housing material	Plastic, PBT
Material active face	Plastic, PBT, yellow
Connection	Terminal chamber
Clamping ability	≤ 2.5 mm ²
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
Operating voltage	LED green
Switching state	• yellow
Width of the active face B	80 mm

Capacitive sensor
NC50-CP80-VN4X2

Accessories

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