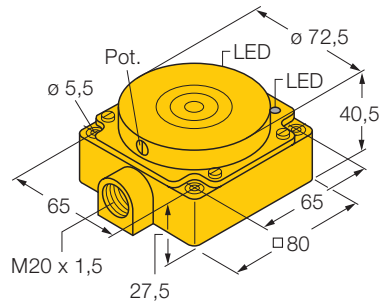


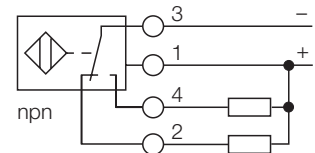
Capacitive sensor

NC50-CP80-VN4X2



- rectangular, height 40,5mm
- top active face
- plastic, PBT12-GF30-V0
- fine adjustment via potentiometer
- 4-wire DC, 10...65 VDC
- SPDT, npn output
- terminal chamber

Wiring diagram



Function principles

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-VN4X2
Ident-No.	2580102
Rated operating distance S_n	50 mm, non-flush mounting
Hysteresis (switching distance)	2... 20 %
Temperature drift	$\leq \pm 20$ %
Min. repeat accuracy	≤ 2 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	≤ 10 % U_{pp}
Rated operational current (DC) I_B	≤ 200 mA
No-load current I_0	≤ 15 mA
Max. OFF-state current	$\leq 0,1$ mA
Max. switching frequency	$\leq 0,2$ kHz
Rated insulation voltage	$\leq 0,5$ kV
Output function	4-wire, complementary, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I_B	$\leq 1,8$ V
Wire breakage / reverse polarity protection	yes / complete
Housing style	rectangular; CP80
Dimensions	80 x 80 x 40,5 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	terminal chamber
Clamping ability	$\leq 2,5$ 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