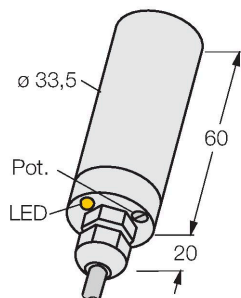


NC20-KT34-VP4X2

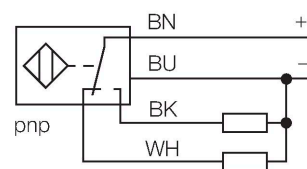
Capacitive Sensor



Features

- Smooth barrel, Ø 34 mm
- Plastic, PVDF
- Fine adjustment via potentiometer
- DC 4-wire, 10...65 VDC
- Complementary contact, PNP output
- Cable connection

Wiring diagram

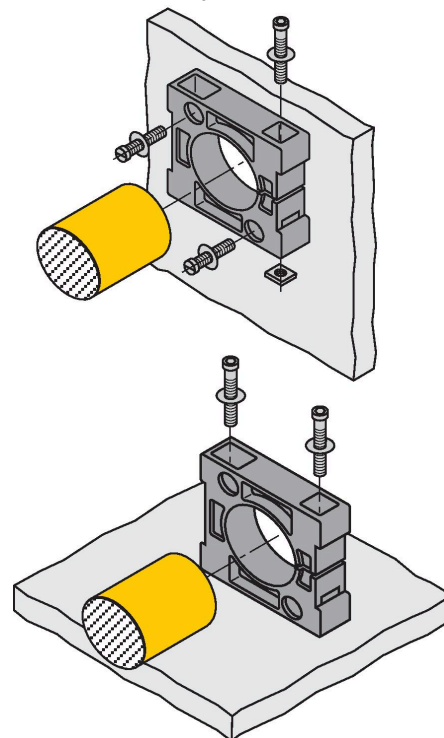


Technical data

Type	NC20-KT34-VP4X2
ID	2550300
Rated switching distance (non-flush)	20 mm
Secured operating distance	$\leq (0.72 \times S_n)$ mm
Hysteresis	1...20 %
Temperature drift	Typical 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25...+70 °C
Electrical data	
Operating voltage U_B	65 VDC
Ripple U_{ss}	≤ 10 % U_{Bmax}
DC rated operating current I_o	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Oscillation frequency	According to EN 60947-5-2, 8.2.6.2 Table 9: 0.1...2.0 MHz
Isolation test voltage	0.5 kV
Output function	4-wire, Complementary contact, PNP
Short-circuit protection	yes/Cyclic
Voltage drop at I_o	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Tests/approvals	
Approvals	UL

Functional principle

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

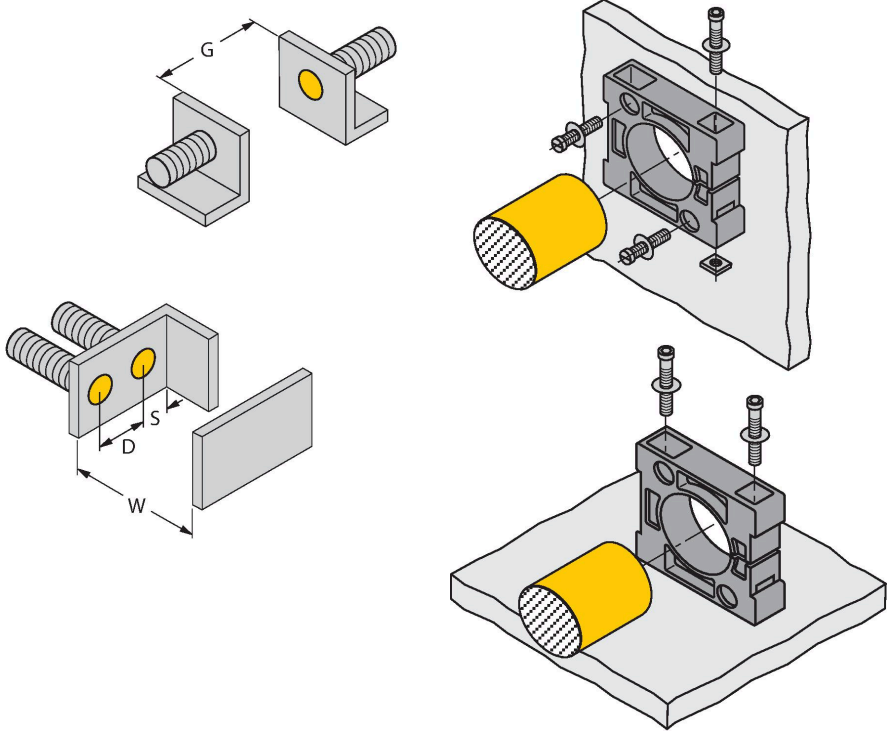


Technical data

UL registration number	E210608
Mechanical data	
Design	Smooth barrel, 34 mm
Dimensions	80 mm
Housing material	Plastic, PVDF
Active area material	PVDF
Electrical connection	Cable
Cable quality	Ø 5.7 mm, 2 m
Core cross-section	4 x 0.34 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
Power-on indication	LED, Green
Switching state	LED, Yellow

Mounting instructions

Product features



Distance D	68 mm
Distance W	45 mm
Distance S	51 mm
Distance G	90 mm
Diameter active area B	Ø 34 mm

The given minimum distances have been checked in compliance with the standard switching distance.
Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

NC20-KT34-VP4X2 | 02/21/2025 17-29 | technical changes reserved