

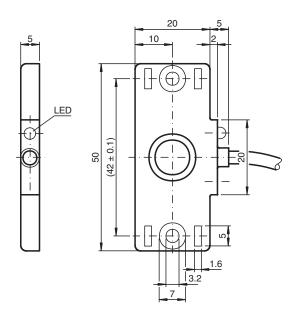
Capacitive sensor

CBN5-F46-E2-Y70121258

- 5 mm non-flush
- 3-wire DC with additional wire for Teach-In
- Flat housing
- Mounting slots for cable ties
- Thru-holes for screw mounting



Dimensions



Technical Data

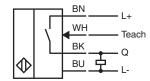
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	5 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	Sa	0 3.5 mm
Output type		3-wire
Nominal ratings		
Installation conditions		
В		0 mm
С		10 mm
F		20 mm / 50 mm

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

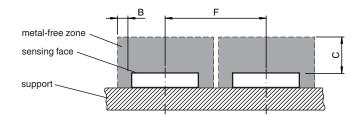
Release date: 2022-06-20 Date of issue: 2022-06-20 Filename: 70121258_eng.pdf

Technical Data 10 ... 30 V DC Operating voltage U_{B} f 0 ... 50 Hz Switching frequency Hysteresis Н 5 ... 15 typ. 10 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing ≤2 V Voltage drop $U_{\text{d}} \\$ 0 ... 100 mA Operating current I_{L} Lowest operating current $I_{\rm m}$ 0 ... 0.5 mA typ. 0.04 mA Off-state current Off-state current T_U =40 °C, switching element off ≤ 100 µA ≤ 15 mA No-load supply current Time delay before availability ≤ 80 ms Switching state indicator LED, yellow Compliance with standards and directives Standard conformity EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 Standards IEC 60947-5-2 AMD 1:2012 Approvals and certificates cULus Listed, General Purpose **UL** approval CCC approval CCC approval / marking not required for products rated ≤36 V **Ambient conditions** Ambient temperature -25 ... 70 °C (-13 ... 158 °F) Storage temperature -40 ... 85 °C (-40 ... 185 °F) Mechanical specifications Connection type cable PVC, 2 m 0.14 mm² Core cross section PBT Housing material PBT Sensing face Degree of protection IP67 Cable Cable diameter $3.5 \text{ mm} \pm 0.2 \text{ mm}$ Bending radius > 10 x cable diameter Mass 44 g

Connection



Installation Conditions



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Teach-In

Teach-In Instructions

- 1. For Teach-In connect pin WH to pin L+ with target at desired distance for 2.5 s ... 5 s.
- ->LED is in green light mode.
- 2. Release connection between first (2.5 s) and second flash (5 s).
- -> LED will flash (5 times in quick sucession) if process is successful.

Note

Holding the connection 5 s ... 7.5 s resets the setting. If during Teach-In on product target is out of range (> 6 mm), LED (yellow light) will blink slowly 3 times. The taught sensing distance is stored in the sensor. The Teach-in value is still available when the power supply is turned off. The endurance of this non-volatile memory is rated for more than 100,000 teach-in repetitions.