

Capacitive sensor

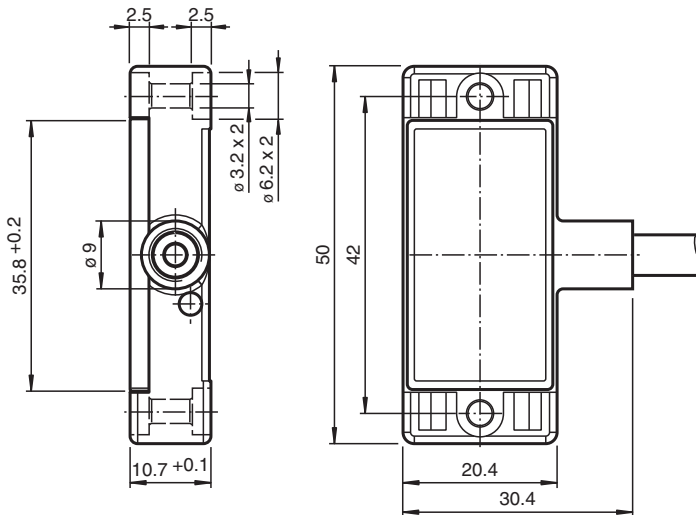
CCN5-F46A-E3



- 5 mm non-flush
- 3-wire DC
- Flat housing
- Chemically resistant PVDF housing
- Mounting slots for cable ties
- Degree of protection IP68
- Thru-holes for screw mounting



Dimensions



Technical Data

General specifications

Switching function		Normally closed (NC)
Output type		PNP
Rated operating distance	s_n	5 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 3.5 mm
Output type		3-wire

Nominal ratings

Installation conditions		
B		0 mm
C		10 mm
F		20 mm / 50 mm
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 10 Hz
Hysteresis	H	1 ... 10 % typ. 5 %

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

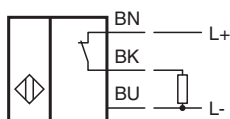
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

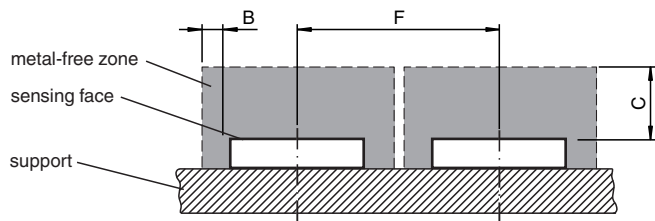
Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2 \text{ V}$
Operating current	I_L	0 ... 100 mA
Lowest operating current	I_m	0 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.01 mA
Off-state current $T_U = 40^\circ\text{C}$, switching element off		$\leq 100 \mu\text{A}$
No-load supply current	I_0	$\leq 15 \text{ mA}$
Time delay before availability	t_v	$\leq 120 \text{ ms}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		666 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 70^\circ\text{C}$ ($-13 \dots 158^\circ\text{F}$)
Storage temperature		$-40 \dots 85^\circ\text{C}$ ($-40 \dots 185^\circ\text{F}$)
Mechanical specifications		
Connection type		cable
Housing material		PVDF
Sensing face		PVDF
Degree of protection		IP68
Cable		
Wire end ferrules		yes
Cable diameter		3 mm - 0.2 mm
Bending radius		$> 12 \times \text{cable diameter}$
Material		FEP
Color		white
Number of cores		3
Core cross section		0.14 mm^2
Length	L	2 m
Dimensions		
Height		10.5 mm
Width		50 mm
Length		30.4 mm
Note		cable tensile strength 20 N

Connection Assignment



Installation Conditions



Release date: 2024-12-10 Date of issue: 2024-12-10 Filename: 103537_eng.pdf