



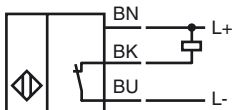
**Model Number**

CCN5-F46A-E1

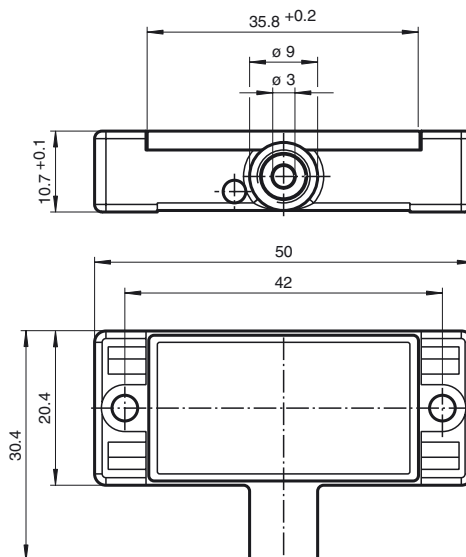
**Features**

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

**Connection**



**Dimensions**



**Technical Data**

**General specifications**

Switching element function	NPN	NC
Rated operating distance	$s_n$	5 mm
Installation	non-flush	
Output polarity	DC	
Assured operating distance	$s_a$	0 ... 3.5 mm

**Nominal ratings**

<b>Installation conditions</b>		
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 %
Reverse polarity protected	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	$U_d$	$\leq 2$ 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
No-load supply current	$I_0$	$\leq 15$ mA
Indication of the switching state	LED, yellow	

**Ambient conditions**

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

**Mechanical specifications**

Connection type	cable FEP , 2 m
Core cross-section	0.14 mm <sup>2</sup>
Housing material	PVDF
Sensing face	PVDF
Protection degree	IP68
Note	cable tensile strength 20 N

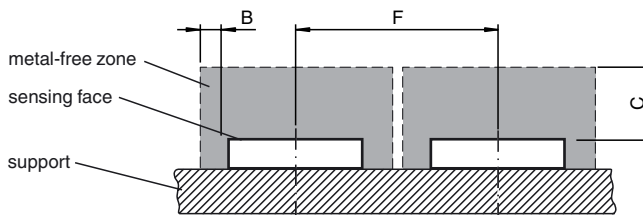
**Compliance with standards and directives**

<b>Standard conformity</b>	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.

**Installation conditions**



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