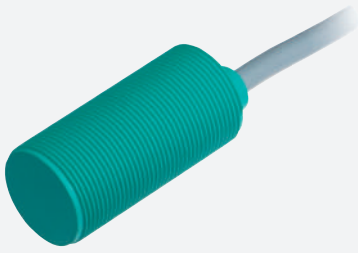


# Capacitive sensor

## CBB10-30GK60-E2



- 10 mm flush
- Operating distance adjustable via potentiometer
- High EMC resistance



### Dimensions



### Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Output type		3-wire
Nominal ratings		
Installation conditions		
A		0 mm
B		0 mm
C		20 mm
F		40 mm
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 10 Hz
Reverse polarity protection		reverse polarity protected

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

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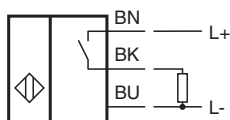
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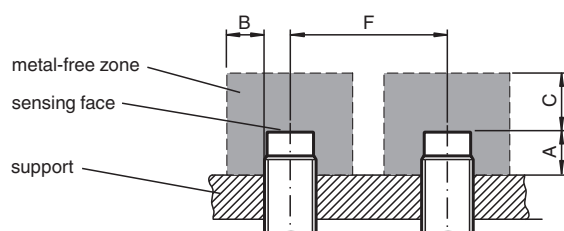
## Technical Data

Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2.8 \text{ V}$
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu\text{A}$ at 25 °C
Off-state current $T_U = 40 \text{ }^\circ\text{C}$ , switching element off		$\leq 100 \mu\text{A}$
No-load supply current	$I_o$	$\leq 20 \text{ mA}$
Time delay before availability	$t_v$	$\leq 50 \text{ ms}$
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		760 a
Mission Time ( $T_M$ )		20 a
Diagnostic Coverage (DC)		0 %
<b>Indicators/operating means</b>		
Potentiometer		sensitivity adjustment
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Connection type		cable PVC , 2 m
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Cable diameter		6.4 mm $\pm$ 0.2 mm
Bending radius		> 10 x cable diameter

## Connection



## Installation



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**Accessories**

	<p><b>BF 30</b></p>	<p>Mounting flange, 30 mm</p>
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