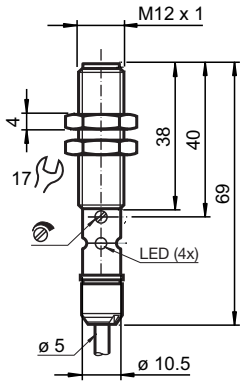
Capacitive sensor

CBB4-12GH70-E2



- 4 mm flush
- Operating distance adjustable via potentiometer
- Suitable for foodstuff conditions
- Resistant against aggressive media

Dimensions



Technical Data

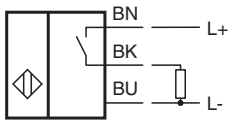
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 2.88 mm
Output type		3-wire
Nominal ratings		
Installation conditions		
A		0 mm
B		0 mm
C		15 mm
F		15 mm
Operating voltage	U_B	10 ... 36 V DC
Switching frequency	f	0 ... 50 Hz

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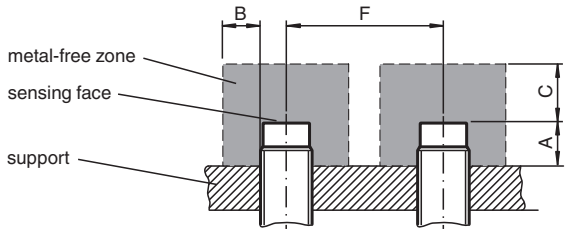
Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V
Operating current	I_L	0 ... 100 mA
No-load supply current	I_0	≤ 12 mA
Switching state indicator		LED, yellow
Functional safety related parameters		
$MTTF_d$		1272 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Potentiometer		sensitivity adjustment
Compliance with standards and directives		
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
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable PUR , 2 m
Core cross-section		0.34 mm²
Housing material		stainless steel 1.4404 / AISI 316L
Sensing face		PEEK
Degree of protection		IP65

Connection



Installation



Accessories

	**BF 12**	Mounting flange, 12 mm

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