



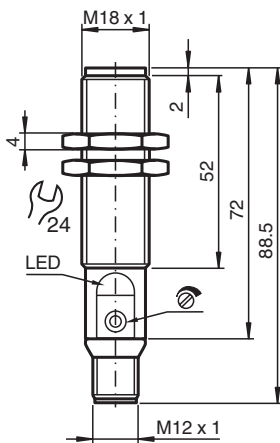
# Capacitive sensor

## CBB8-18GK75-E2-V1

- 8 mm flush
- The switching distance can be set over a wide range with the potentiometer



### Dimensions



### Technical Data

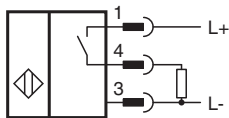
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	1 ... 8 mm
Installation		flush
Output polarity		DC
Output type		3-wire
Nominal ratings		
Installation conditions		
A		0 mm
B		0 mm
C		16 mm
F		36 mm
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	f	0 ... 100 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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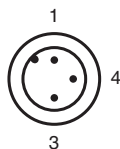
## Technical Data

Voltage drop	$U_d$	$\leq 1.5$ V
Temperature drift		max. 20 % at -5 ... 55 °C (23 ... 131 °F)
Operating current	$I_L$	0 ... 100 mA
No-load supply current	$I_0$	$\leq 18$ mA
Time delay before availability	$t_v$	max. 300 ms
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		343 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Indicators/operating means</b>		
LED green		Operating display
LED yellow		indication switching state
Potentiometer		sensitivity adjustment
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
Protection class		II
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36$ V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		3
Dimensions		
Length		88 mm
Diameter		18 mm

## Connection



## Connection Assignment



## Connection Assignment

Wire colors in accordance with EN 60947-5-2

1		BN	(brown)
3		BU	(blue)
4		BK	(black)

## Installation Conditions

