

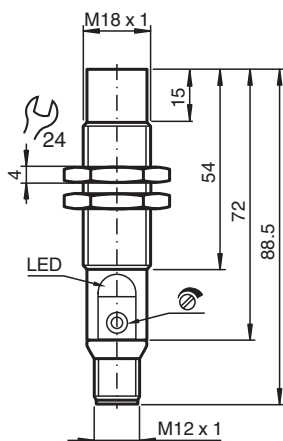


Capacitive sensor CBN15-18GS75-E2-V1

- 15 mm non-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	2 ... 15 mm
Installation		non-flush
Output polarity		DC
Output type		3-wire

Nominal ratings

Installation conditions		
A		30 mm
B		18 mm
C		30 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
Voltage drop	U_d	≤ 1.5 V

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

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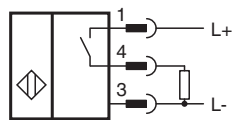
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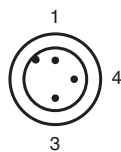
Technical Data

Temperature drift		max. 20 % at -5 ... 55 °C (23 ... 131 °F)
Operating current	I_L	0 ... 100 mA
No-load supply current	I_0	≤ 15 mA
Time delay before availability	t_v	max. 300 ms
Functional safety related parameters		
MTTF _d		226 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED green		Operating display
LED yellow		indication switching state
Potentiometer		sensitivity adjustment
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
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



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

Installation Conditions

