

Capacitive sensor

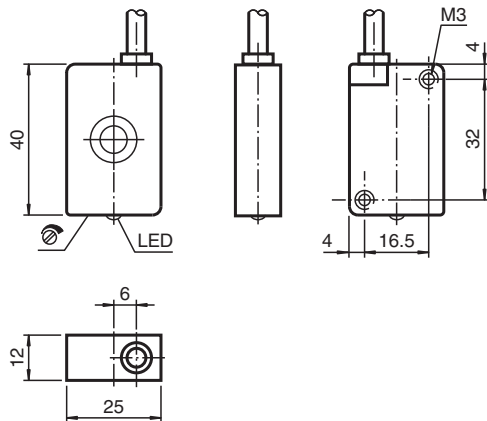
CBN15-F64-E2



- 15 mm non-flush
- Flat housing
- Switching distance adjustable between 2 mm ... 15 mm



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.1 mm
Output type		3-wire

Nominal ratings

Installation conditions		
B		15 mm
C		30 mm
F		45 mm / 60 mm
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	1 ... 10 % typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing $I_{max} \leq 500$ mA

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

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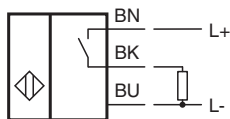
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 **PEPPERL+FUCHS**

Technical Data

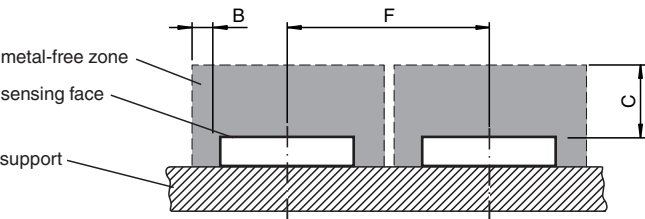
Voltage drop	U _d	≤ 2 V
Repeat accuracy	R	≤ 1.5 mm
Operating current	I _L	0 ... 100 mA
Off-state current	I _r	0 ... 50 µA typ. 5 µA
No-load supply current	I ₀	≤ 15 mA
Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF _d		941 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)	0 %	
Indicators/operating means		
Potentiometer	sensitivity adjustment	
Compliance with standards and directives		
Standard conformity		
Standards		EN 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 ... 70 °C (-13 ... 158 °F)	
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Pollution degree	3	
Mechanical specifications		
Connection type	cable	
Housing material		PBT
Sensing face	PBT	
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter	4.8 mm ± 0.2 mm	
Bending radius		> 10 x cable diameter
Material	PUR	
Color		grey
Number of cores	3	
Core cross section		0.34 mm ²
Length	L	2 m
Tightening torque, housing screws		≤ 2 Nm
Dimensions		
Height		12 mm
Width	25 mm	
Length		40 mm
Note	Screw-in depth of housing screws, max. 8 mm	

Connection



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Installation Conditions



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