

Capacitive sensor

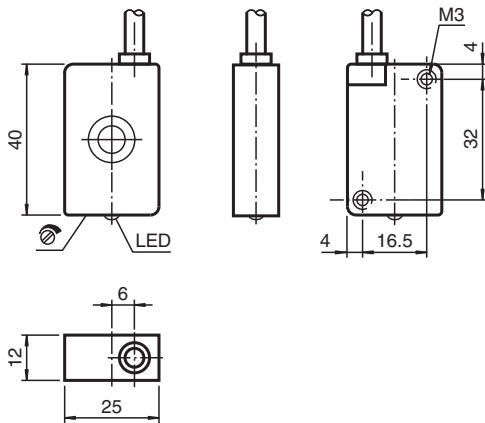
CBN15-F64-E2



- 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".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

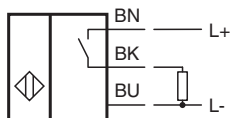
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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 Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
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 Assignment



Installation Conditions

