

Capacitive sensor

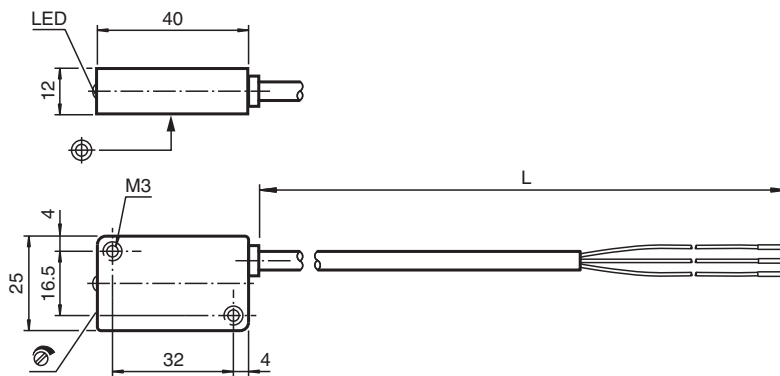
CBN15-F64-A0



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



Dimensions



Technical Data

General specifications		
Switching function		complementary
Output type		NPN
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 10.8 mm
Actual operating distance	s_r	13.5 ... 16.5 mm
Output type		4-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 %

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

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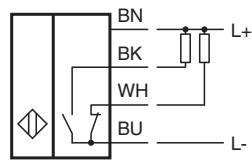
PEPPERL+FUCHS

Technical Data

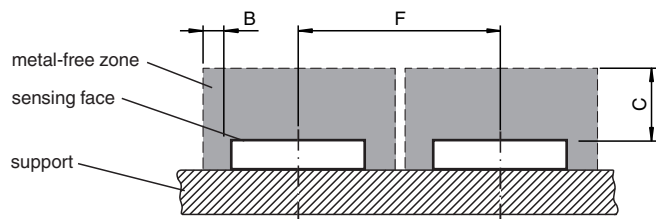
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing $I_{\max} \leq 500 \text{ mA}$
Voltage drop	U_d	$\leq 2 \text{ V}$
Repeat accuracy	R	$\leq 1.5 \text{ mm}$
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 50 μA typ. 5 μA
No-load supply current	I_0	$\leq 15 \text{ mA}$
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, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
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 $\pm$ 0.2 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		4
Core cross section		0.34 mm ²
Length	L	2 m
Tightening torque, housing screws		$\leq 2 \text{ Nm}$
Dimensions		
Height		12 mm
Width		25 mm
Length		40 mm
Note		Screw-in depth of housing screws, max. 8 mm

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Connection



Installation Conditions



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