# Capacitive Sensors BCS M12BBI1-PSC40D-EP02 Order Code: BCS00PU





1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator



#### **Basic features**

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x)
Sensitivity	Switching distance adjustable
Series	M12
Trademark	Global

### **Display/Operation**

Function indicator	yes
Power indicator	yes

### **Electrical connection**

Cable diameter D	3.50 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### **Electrical data**

No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VDC
Protection class	II
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

### **Environmental conditions**

Ambient temperature Contamination scale IP rating	-2585 °C 1 IP67
Functional safety	
MTTF (40 °C)	343 a
Interface	
Switching output	PNP normally open (NO)

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# BVLLAL

### Material

# Cover materialPAHousing materialPBTMaterial jacketPURMaterial sensing surfacePBT

### **Mechanical data**

Dimension	Ø 12 x 61 mm
Installation	for flush mounting
Size	M12x1
Thread (A)	M12x1
Tightening torque	1 Nm

### **Range/Distance**

Hysteresis H max. (% of Sr)	15.0 %
Measuring range	14 mm
Rated operating distance Sn	4 mm
Repeat accuracy max. (% of Sr)	2.0 %
Temperature drift max. (% of Sr)	20 % [-555 °C]

### Remarks

The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything. If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

### Wiring Diagrams

