Capacitive Sensors
BCS M30BB1-PSC15D-EP02
Order Code: BCS00NM

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

Basic features
Approval/Conformity
- CE
- cULus
- WEEE

Basic standard
IEC 60947-5-2

Scope of delivery
Nut (2x)

Sensitivity
Switching distance adjustable

Series
M30

Trademark
Global

Display/Operation
Function indicator
yes

Power indicator
yes

Electrical connection
Cable diameter D
4.60 mm

Cable length L
2 m

Conductor cross-section
0.34 mm²

Number of conductors
3

Polarity reversal protected
yes

Protection against device mix-ups
no

Short-circuit protection
yes

Electrical data
No-load current Io max. at Ue
15 mA

Operating voltage Ub
10...30 VDC

Protection class
II

Rated insulation voltage Ui
75 V DC

Rated operating current Ie
100 mA

Rated operating voltage Ue DC
24 V

Ready delay tv max.
300 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
-25...85 °C

Contamination scale
1

Protection degree
IP67

Storage temperature
-25...85 °C

Functional safety
MTTF (40 °C)
343 a

Material
Cover material
PBT
PA

Housing material
PBT

Material jacket
PUR

Material sensing surface
PBT
**Mechanical data**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Ø 30 x 65.5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>for flush mounting</td>
</tr>
<tr>
<td>Size</td>
<td>M30x1.5</td>
</tr>
<tr>
<td>Thread (A)</td>
<td>M30x1.5</td>
</tr>
<tr>
<td>Tightening torque</td>
<td>6 Nm</td>
</tr>
</tbody>
</table>

**Range/Distance**

<table>
<thead>
<tr>
<th>Hysteresis H max. (% of Sr)</th>
<th>15.0 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>2...15 mm</td>
</tr>
<tr>
<td>Rated operating distance Sn</td>
<td>15 mm</td>
</tr>
<tr>
<td>Repeat accuracy max. (% of Sr)</td>
<td>2.0 %</td>
</tr>
<tr>
<td>Temperature drift max. (% of Sr)</td>
<td>20 % [-5...55 °C]</td>
</tr>
</tbody>
</table>

**Output/Interface**

Switching output: PNP normally open (NO)

**Wiring Diagrams**

![Wiring Diagram](image)