The CS3 B/B is an extremely rugged switch joystick designed specifically for bang / bang (on / off) operation. The durable housing and center pivot design make this device resistant to abuse and ideally suited for high duty cycle applications.

**STANDARD FEATURES**
- Compact and rugged construction design
- Proprietary blend, ultra-tough boot
- V series snap action switches
- Environmentally sealed mounting and corrosion resistant components

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<td>HANDLE TRAVEL OPTIONS</td>
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<td>SHAFT DIAMETER OPTIONS</td>
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<td>DIMENSIONS</td>
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<td>MECHANICAL SPECIFICATIONS</td>
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<tr>
<td>ENVIRONMENTAL SPECIFICATIONS</td>
<td></td>
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</tbody>
</table>
### JOYSTICK OPERATION

#### AXIS OPTIONS

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE AXIS</td>
<td>DUAL AXIS</td>
<td></td>
</tr>
<tr>
<td>PART #: CS3EBB</td>
<td>PART #: CS3VBB</td>
<td></td>
</tr>
</tbody>
</table>

#### HANDLE TRAVEL OPTIONS

<table>
<thead>
<tr>
<th></th>
<th>OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN GATE</td>
<td>CROSS GATE</td>
</tr>
<tr>
<td>+/- 15° handle deflection</td>
<td>+/-15° handle deflection in each axis</td>
</tr>
</tbody>
</table>

#### SHAFT DIAMETER OPTIONS

<table>
<thead>
<tr>
<th></th>
<th>OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD</td>
<td>HEAVY DUTY (CS3HD)</td>
</tr>
<tr>
<td>.32 IN (8 MM)</td>
<td>.40 IN (10 MM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD</td>
<td>HEAVY DUTY</td>
</tr>
<tr>
<td>Heavy duty shaft that allows up to 16 wires</td>
<td>Heavy duty shaft that allows up to 16 wires</td>
</tr>
</tbody>
</table>

#### JOYSTICK ACTION

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRING RETURN</td>
<td></td>
</tr>
<tr>
<td>Returns to center</td>
<td></td>
</tr>
</tbody>
</table>
### SPDT (FORM C) V SERIES MICROSWITCHES

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
<th>Current Rating (AC)</th>
<th>Voltage Rating (AC)</th>
<th>Termination</th>
<th>Max. Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2 PER AXIS</strong></td>
<td>Standard configuration</td>
<td>11A</td>
<td>250</td>
<td>.187&quot; x 0.20&quot; male quick connect</td>
<td>18 AWG</td>
</tr>
<tr>
<td><strong>4 PER AXIS</strong></td>
<td>Double configuration</td>
<td>6A</td>
<td>12 - 24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MOUNTING STYLE OPTIONS

DROP-IN MOUNTING
Mounts from above.

PANEL MOUNTING
Mounts from below.

All dimensions in inches [mm] and are subject to change.
HANDLE OPTIONS

**BH**
Lever handle with optional:
- (Top) Rocker Switch
- (Top) Momentary Push Button
- (Side) Lever Actuated Momentary Push Button

DI P1 P2 | HEIGHT: 4.9”

**FG -3**
Fighter grip handle with optional:
- Rocker Switches
- Thumbwheels
- Push Buttons
- Trigger

DI | HEIGHT: 7.5”

**FG -4**
Fighter grip handle with optional:
- Rocker Switches & Thumbwheels
- Push Buttons
- Trigger
- Hand Rest
- Twist Function

DI | HEIGHT: 8”

**MG1**
T Handle with optional:
- Side Push Button

DI | HEIGHT: 2.9”

**MG13**
Twist handle with optional:
- Side Push Button

DI P2 | HEIGHT: 3.2”

**MG27**
Options:
Extended or Recessed Push Button

DI P1 P2 | HEIGHT: 3.9”

**ROUND BALL**
Standard handle

DI P1 P2 | HEIGHT: 2.4”

**RH**
Rocker handle with handrest and optional:
- (Top) Rocker Switch
- (Top) Momentary Push Button
- (Top) Maintained Push Button
- (Side) Momentary Push Button

DI P2 | HEIGHT: 5.7”

**RHS**
Rocker handle with optional:
- (Top) Rocker Switch
- (Top) Momentary Push Button
- (Top) Maintained Push Button

DI P1 P2 | HEIGHT: 4.7”

**TH25**
Twist handle

DI P1 P2 | HEIGHT: 3.6”

**CUSTOM HANDLES**
Contact us today to learn more about our engineering & design services.

**MOUNTING STYLE COMPATIBILITY:**
- DI DROP-IN MOUNTING
- P1 PANEL MOUNTING STYLE 1
- P2 PANEL MOUNTING STYLE 2

*Handle heights shown are for panel mounting styles. Add 0.7” for drop-in mounting.*
SPECIFICATIONS

MECHANICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Life</td>
<td>20 million life cycles</td>
</tr>
<tr>
<td>Handle Travel</td>
<td>±15 degrees</td>
</tr>
<tr>
<td>Standard (CS3) Shaft</td>
<td>2.4&quot; [61mm] shaft length</td>
</tr>
<tr>
<td></td>
<td>0.32&quot; [8mm] shaft diameter</td>
</tr>
<tr>
<td>Heavy Duty (CS3HD)</td>
<td>2.4&quot; [61mm] shaft length</td>
</tr>
<tr>
<td></td>
<td>0.40&quot; [10mm] shaft diameter</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL DATA

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature Range</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-13° to +158°F [-25° to +70°C]</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40° to +158°F [-40° to +70°C]</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP54</td>
</tr>
</tbody>
</table>

“Wired handles require additional 1” [25.4 mm] of clearance at the base of the shaft to ensure that the wire service loop can operate unobstructed in all directions.

DIMENSIONS

DROP-IN MOUNTING & PANEL MOUNTING STYLE 2

- 3.5 [90] SQ.
- 1.0 [25.4]" H
- 2.2 [56] W
- 2.7 [68] L
- 1.6 [40] D
- 5.6 [143] H

PANEL MOUNTING STYLE 1

- 2.7 [68] SQ.
- 2.7 [68] L
- 2.1" [54] W
- 2.4 [61] H

All dimensions in inches [mm] and are subject to change.