Features/Benefits
- Snap-Action provides positive tactile feedback
- IP68 sealed to endure harsh environments
- 1,000,000 life cycle
- Up to 5A resistive load
- Multiple housing styles
- Various termination types and wirelead options are also available
- RoHS compliant

Specifications
FUNCTION: SPST, SPDT Double Break (Form Z) Momentary
CONTACT ARRANGEMENT: N.O. and N.C.
MOUNTING TYPE: Threaded front mount
TORQUE SPEC FOR THREADED BODY: Do not exceed 10 in-lbs (1.35 N-m)

Mechanical
OPERATING LIFE: 1,000,000 cycles
TOTAL TRAVEL: 2 mm max.
OPERATING POINT 0.9 ± 0.25 mm
OVER TRAVEL: 0.25 mm min.
OPERATING FORCE: 3N ± 1.5N
8N ± 1.5N
VIBRATION: 10-500 Hz 10g Max
SHOCK: 50g 11ms sawtooth wave

Electrical
CONTACT RATING:
Option “Q” Silver
5A/32 VDC resistive (25,000 cycles)
3A/32 VDC resistive (25,000 cycles)
Option “G” Gold over Silver
10mA/5 VDC resistive (1,000,000 cycles)
DIELECTRIC STRENGTH: 1000 V AC for 1 min.
INSULATION RESISTANCE: 1 G Ω @ 500 VDC
INITIAL CONTACT RESISTANCE 50 mΩ max (without wire leads)
BOUNCE TIME: <5 ms

Materials
HOUSING: PBT/PC
BASE: PBT
CAP: PBT
ACTUATOR: PBT
INTERNAL SEAL: Silicone rubber
TERMINALS: Copper with silver nickel inlay, silver plating
MOVABLE CONTACT: Copper alloy, gold over silver plating
TERMINAL SEAL: Epoxy

Operating Environment
OPERATING TEMPERATURE: -40°C to +85°C
ESD PROTECTION: 15KV min.
SEALING: IP68

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, please contact Customer Service.

Build-A-Switch
To order, simply select desired option from each category and place in the appropriate box.

Designation
PNP Series

Operating Force
3 Newtons
8 Newtons

Actuator Style
S Standard
E Extended (D housing style only)
N None

Actuator Color *
0 No Cap
2 Black (STD)
3 Red
4 Orange
5 Yellow
9 Gray

Housing Style
T Standard threaded mount
D Dome bezel

Housing Color
2 Black (STD)

Terminal Seal
E Epoxy
All models are epoxy sealed

Contact Material
Q Silver (STD)
G Gold over silver

Termination
02 PC Pin (G contact material only)
03 Solder Lug (STD)
W2 2 x 12” 22 AWG UL1569 wire (overmolded)
W3 3 x 12” 22 AWG UL1569 wire (overmolded)
W4 4 x 12” 22 AWG UL1569 wire (overmolded)

Circuit
SPDT - Double Break
SPST NC - Double Break
SPST NO - Double Break

* Additional colors available, please contact Customer Service
PNP Series
Sealed Pushbutton Switch

STANDARD VIEW

OPERATING FORCE

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>OPERATING FORCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3 N</td>
</tr>
<tr>
<td>8</td>
<td>8 N</td>
</tr>
</tbody>
</table>

ACTUATOR STYLE

- **S** STANDARD
- **E** EXTENDED (D HOUSING STYLE ONLY)
- **N** NO CAP

ACTUATOR COLOR

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>ACTUATOR COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No color</td>
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<tr>
<td>2</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Red</td>
</tr>
<tr>
<td>4</td>
<td>Orange</td>
</tr>
<tr>
<td>5</td>
<td>Yellow</td>
</tr>
<tr>
<td>9</td>
<td>Gray</td>
</tr>
</tbody>
</table>

* Cap may be ordered separately

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

www.ckswitches.com
HOUSING STYLE

T  STANDARD THREADED MOUNT

D  DOME BEZEL
PNP Series
Sealed Pushbutton Switch

HOUSING COLOR

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Black (STD)</td>
</tr>
</tbody>
</table>

CIRCUIT

- **W** SPST NC - Double Break
- **Y** SPST NO - Double Break
- **C** SPDT - Double Break

TERMINATION

- **02** PC PIN
- **03** SOLDER LUG (STD)

**W2**
- 2 x 12" 22 AWG UL1569 wire (overmolded)

**W3**
- 3 x 12" 22 AWG UL1569 wire (overmolded)

**W4**
- 4 x 12" 22 AWG UL1569 wire (overmolded)

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

www.ckswitches.com
**CONTACT MATERIAL**

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>CONTACT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>Silver (STD)</td>
</tr>
<tr>
<td>G</td>
<td>Gold over silver</td>
</tr>
</tbody>
</table>

**TERMINAL SEAL**

**E EPOXY**
All models are epoxy sealed

**HARDWARE**

**HEX NUT**
707100201 Nickel-plated

**LOCK WASHER**
700302202

**PANEL GASKET**
851D02000

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

www.ckswitches.com