**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
**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)

**Operating Environment**

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

**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

**Designation**

**PNP**  PNP Series

**Operating Force**

3  3 Newtons
8  8 Newtons

**Actuator Style**

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

**Actuator Color**

0  No Cap
1  White
2  Black (STD)
3  Red
4  Orange
5  Yellow
6  Green
7  Blue
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

![Standard View Diagram]

## 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

![Scale 3:1]

## Actuator Color

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Actuator Color</th>
<th>Part Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No color</td>
<td>285E01000</td>
<td>White</td>
</tr>
<tr>
<td>1</td>
<td>White</td>
<td>285E02000</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>Black</td>
<td>285E03000</td>
<td>Red</td>
</tr>
<tr>
<td>3</td>
<td>Red</td>
<td>285E04000</td>
<td>Orange</td>
</tr>
<tr>
<td>4</td>
<td>Orange</td>
<td>285E05000</td>
<td>Yellow</td>
</tr>
<tr>
<td>5</td>
<td>Yellow</td>
<td>285E06000</td>
<td>Green</td>
</tr>
<tr>
<td>6</td>
<td>Green</td>
<td>285E07000</td>
<td>Blue</td>
</tr>
<tr>
<td>7</td>
<td>Blue</td>
<td>285E09000</td>
<td>Gray</td>
</tr>
<tr>
<td>8</td>
<td>No color</td>
<td>824D01000</td>
<td>White</td>
</tr>
<tr>
<td>9</td>
<td>Gray</td>
<td>824D02000</td>
<td>Black</td>
</tr>
</tbody>
</table>

* Cap may be ordered separately.
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

<table>
<thead>
<tr>
<th>TERMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
</tr>
<tr>
<td>Y</td>
</tr>
<tr>
<td>C</td>
</tr>
</tbody>
</table>

TERMINATION

<table>
<thead>
<tr>
<th>TERMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
</tr>
<tr>
<td>03</td>
</tr>
</tbody>
</table>

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

4 May 20
PnP Series
Sealed Pushbutton Switch

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

LOCKWASHER
70030202

PANEL GASKET
851D02000

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

www.ckswitches.com