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
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

P N P
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
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

Downloaded from Arrow.com.
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
  - ELECTRICAL SCHEMATIC
    - 2 WIRES
      - RED N.C.
      - WHITE N.O.
    - 3 WIRES
      - RED N.C.
      - WHITE N.O.
      - BLACK COMMON
    - 4 WIRES
      - RED N.C.
      - WHITE N.O.
      - RED N.C.
      - WHITE N.O.

- **Y**: SPST NO - Double Break
  - ELECTRICAL SCHEMATIC
    - 2 WIRES
      - RED N.C.
      - WHITE N.O.
    - 3 WIRES
      - RED N.C.
      - WHITE N.O.
      - BLACK COMMON
    - 4 WIRES
      - RED N.C.
      - WHITE N.O.
      - RED N.C.
      - WHITE N.O.

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
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
700302202

PANEL GASKET
851D02000

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

11 Sep 18

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