Miniature Pushbutton

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Ratings</td>
<td>3A @ 120VAC, 28VDC 1A @ 250VAC</td>
</tr>
<tr>
<td></td>
<td>See Contact Options</td>
</tr>
<tr>
<td>Electric Life</td>
<td>50,000 cycles typical</td>
</tr>
<tr>
<td>Contact Resistance</td>
<td>&lt;20mΩ initial @ 2-4VDC, 100mA</td>
</tr>
<tr>
<td>Actuator Travel</td>
<td>0.85mm ± 0.2mm</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>1500Vrms min</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>&gt;100MΩ min</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40ºC to 85ºC</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40ºC to 85ºC</td>
</tr>
</tbody>
</table>

Materials

- Actuator: 6/6 Nylon, Glass Filled
- Housing: Diallyl Phthalate (DAP)
- Cover: Stainless Steel
- Bushing: Brass, Nickel Plated
- Contacts: Brass, Silver Plated
- Terminals: Brass, Silver Plated

Ordering Information

1. Series ANP 2 1 F4 C Q E C742
2. Number of Poles
   1 = SPDT
   2 = DPDT
3. Switch Function
   1 = ON - (ON)
   2 = ON - ON Latching
4. Bushing
   F4 / N4 = ¼-40NS / Non-threaded, keyway, 6.35mm
   F9 / N9 = ¼-40NS / Non-threaded, flat, 6.35mm
   **No bushing is selected is a panel mount frame is selected below**
5. Terminals
   B = Solder Lug
   C = PC pin
   D = Quick connect
   H = Horizontal mount, right angle PC pin
   V = Vertical mount, right angle PC pin
   S20 = PC pin with support bracket
   S25 = PC pin with support bracket
   S40 = PC pin with support bracket
   V20 = Snap in support bracket
   V25 = Snap in support bracket
   V40 = Snap in support bracket
   *not available with SPDT
6. Contacts
   Q = Silver plated
   R = Gold plated
   G = Gold over Silver plated
7. Epoxy Seal
   E = Epoxy Seal
8. Actuator Cap / Frame
   Blank = None
   C73
   C74
   C75
   C76
   L75 = Snap in panel mount with frame and LED
   L76 = Snap in panel mount with frame and LED
   F75 = Snap in panel mount with frame
   F76 = Snap in panel mount with frame
**ANP**

**Miniature Pushbutton**

**Switch Function**

<table>
<thead>
<tr>
<th>Function</th>
<th>Pushbutton Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ON (ON)</td>
</tr>
<tr>
<td>2</td>
<td>ON ON</td>
</tr>
<tr>
<td>Terminals</td>
<td>1-3 1-2</td>
</tr>
</tbody>
</table>

**Bushing Options**

- **F4 Threaded**
  - N4 Non-Threaded

- **F9 Threaded**
  - N9 Non-Threaded

**Panel Mounting**

- **1/4” - 40 Bushing**

**Terminal Options**

- **B Single Pole**
  - 1.85 4.70 9.40 4.83

- **B Double Pole**
  - 1.85 4.70 9.40 4.83

- **C Single Pole**
  - 1.85 4.70 9.40 4.83

- **C Double Pole**
  - 1.85 4.70 9.40 4.83

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Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.
Terminal Options

**H (HS - Snap In) = Horizontal mount, right angle PC pins, single pole**

**V (VS - Snap In) = Vertical mount, right angle PC pins, single pole**

**V (VS - Snap In) = Vertical mount, right angle PC pins, double pole**

Dimensions shown in mm. Dimensions are shown for reference purposes only.
**Miniature Pushbutton**

### Terminal Options

<table>
<thead>
<tr>
<th>Terminal Option</th>
<th>&quot;A&quot; Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>S25 / V25</td>
<td>16.00</td>
</tr>
</tbody>
</table>

**S25 (V25 - Snap in bracket) = PC pins with support bracket, single pole**

<table>
<thead>
<tr>
<th>Terminal Option</th>
<th>&quot;A&quot; Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>S20 / V20</td>
<td>11.68</td>
</tr>
<tr>
<td>S25 / V25</td>
<td>16.00</td>
</tr>
</tbody>
</table>

**S20 / S25 (V20/V25 - Snap in bracket) = PC pins with support bracket, double pole**

<table>
<thead>
<tr>
<th>Terminal Option</th>
<th>&quot;A&quot; Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40 / V40</td>
<td>16.00</td>
</tr>
</tbody>
</table>

**S40 (V40 - Snap in bracket) = PC pins with support bracket, single pole**
Terminal Options

S40 (V40 - Snap in bracket) = PC pins with support bracket, double pole

Contact Options

<table>
<thead>
<tr>
<th>Designator</th>
<th>Contact Material</th>
<th>Terminal Material</th>
<th>Electrical Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>Silver Plating</td>
<td>Silver Plating</td>
<td>3A @ 120VAC, 28VDC; 1A @ 250VAC</td>
</tr>
<tr>
<td>R</td>
<td>Gold over Nickel Plating</td>
<td>Gold over Nickel</td>
<td>0.4VA max @ 20VAC or VDC max</td>
</tr>
<tr>
<td>G</td>
<td>Gold over Silver Plating</td>
<td>Gold over Silver</td>
<td>0.4VA max @ 20VAC or VDC max or 3A @ 120VAC, 28VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plating</td>
<td>1A @ 250VAC</td>
</tr>
</tbody>
</table>

Cap Options

<table>
<thead>
<tr>
<th>Designator</th>
<th>Color Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>C73_</td>
<td>1 = White, 2 = Black, 3 = Red</td>
</tr>
<tr>
<td></td>
<td>Contact Factory for other available colors</td>
</tr>
<tr>
<td>C74_</td>
<td>1 = White, 2 = Black, 3 = Red</td>
</tr>
<tr>
<td></td>
<td>Contact Factory for other available colors</td>
</tr>
<tr>
<td>C75_</td>
<td>1 = White, 2 = Black, 3 = Red</td>
</tr>
<tr>
<td></td>
<td>Contact Factory for other available colors</td>
</tr>
<tr>
<td>C76_</td>
<td>1 = White, 2 = Black, 3 = Red</td>
</tr>
<tr>
<td></td>
<td>Contact Factory for other available colors</td>
</tr>
<tr>
<td>C77_</td>
<td>1 = White, 2 = Black, 3 = Red</td>
</tr>
<tr>
<td></td>
<td>Contact Factory for other available colors</td>
</tr>
</tbody>
</table>
**Frame Options**

**F75_**
- Insert cap and frame colors here
- Dimensions shown for reference purposes only.
- Increase the length dimension to 15.75 / 15.88 for 1.5 / 3.2 thick panels
- Cap Color / Frame Color
  1 = White, 2 = Black, 3 = Red
  Contact Factory for other available colors

**F76_**
- Insert cap and frame colors here
- Dimensions shown for reference purposes only.
- Increase the length dimension to 15.75 / 15.88 for 1.5 / 3.2 thick panels
- Cap Color / Frame Color
  1 = White, 2 = Black, 3 = Red
  Contact Factory for other available colors

**L75_**
- Insert cap and frame colors here
- Dimensions shown for reference purposes only.
- Increase the length dimension to 15.75 / 15.88 for 1.5 / 3.2 thick panels
- Cap Color / Frame Color
  1 = White, 2 = Black, 3 = Red
  Contact Factory for other available colors

**L76_**
- Insert cap and frame colors here
- Dimensions shown for reference purposes only.
- Increase the length dimension to 15.75 / 15.88 for 1.5 / 3.2 thick panels
- Cap Color / Frame Color
  1 = White, 2 = Black, 3 = Red
  Contact Factory for other available colors

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Dimensions shown in mm. Dimensions are shown for reference purposes only.
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Hardware

Two hex nuts, one lock washer & one locking ring supplied standard with threaded bushings

**Hex Nut**
For use with F4 & F9 Bushing

**Lock Washer**
For use with F4 & F9 Bushing

**Locking Ring**
For use with F4 & F9 Bushing

**Dress Nut**
For use with F4 & F9 Bushing

**Knurled Nut**
For use with F4 & F9 Bushing

**Cap Shroud A**

**Cap Shroud B**

**Cap Shroud C**