### RP8100 Series Pushbutton Switch

#### Specifications
- **Electrical Rating:**
  - 125mA @ 125VAC, 100mA @ 50VDC
- **Life Expectancy:**
  - 500,000 Cycles at full load
- **Contact Resistance:**
  - 50mΩ Max. (initial)
- **Insulation Resistance:**
  - 1,000MΩ Min. @ 500VDC
- **Dielectric Strength:**
  - 1,000VAC rms
- **Operating Temperature:**
  - -30°C to 85°C
- **Travel:**
  - 1.5mm
- **Contact Arrangement:**
  - SPST, Off-(On), Momentary
- **Actuation Force:**
  - 350 gf
- **Contact Bounce:**
  - 10ms MAX
- **Ingress Protection:**
  - IP67

#### Features & Benefits
- Threaded or snap in panel mount
- 500,000 life expectancy
- LED illumination options
- Sealed to IP67 ratings
- Molded back w/ wire leads (500mm long) optional

#### Part Number Configurator

<table>
<thead>
<tr>
<th>Series</th>
<th>Bushing</th>
<th>Termination</th>
<th>Contact Material</th>
<th>Seal</th>
<th>Housing Color</th>
<th>Cap Color</th>
<th>LED Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP8100</td>
<td>B1</td>
<td>M1 - Solder Lug</td>
<td>C - Gold Over Silver</td>
<td>E - Epoxy Sealed</td>
<td>BLK - Black</td>
<td>WHT - White</td>
<td>HELP</td>
</tr>
<tr>
<td>RP8101*</td>
<td>B2 - Snap in</td>
<td>W1 - Molded Back w/Wire Leads 500mm long</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

*B: (12 x 0.75)*

*The RP8101 series is only offered with B2 Bushing and is non-illuminated.

Specifications subject to change without notice 8.25.2021
RP8100 Series Pushbutton Switch

**RP8100 w/LED**

**B1 Bushing**

- $\varnothing 2.50$ [.098 in]
- $\varnothing 17.50$ [.689 in]
- $\varnothing 12.00$ [.472 in]
- $7.00$ [.276 in]
- $5.00$ [.197 in]
- $3.40$ [.134 in]
- $1.90$ [.075 in]
- $11.70$ [.461 in]
- $1.30$ [.051 in]
- $2.80$ [.110 in]
- $20.20$ [.795 in]
- $18.20$ [.717 in]
- CATHODE (-)

**Panel Cutout**

**LED Schematic**

**ORIENTATION FLAT FOR PANEL MOUNTING**

**RP8100 w/o LED**

**B1 Bushing**

- $\varnothing 17.50$ [.689 in]
- $\varnothing 12.00$ [.472 in]
- $7.00$ [.276 in]
- $5.00$ [.197 in]
- $2.00$ [.079 in]
- $3.50$ [.138 in]
- $9.40$ [.370 in]
- $2.80$ [.110 in]
- $1.20$ [.047 in]
- $1.90$ [.075 in]
- $5.08$ [.200 in]
- CATHODE (-)

**Panel Cutout**

**Schematic**

**ORIENTATION FLAT FOR PANEL MOUNTING**
RP8100 Series Pushbutton Switch

RP8100 w/ LED
B2 Bushing

Schematic

RP8100 w/o LED
B2 Bushing

Schematic
RP8100 w/ LED B2
Bushing Molded Back
w/ Wired Leads

<table>
<thead>
<tr>
<th>TERMINAL</th>
<th>WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WIRE, 20 AWG AWM UL3385, BLACK</td>
</tr>
<tr>
<td>2</td>
<td>WIRE, 20 AWG AWM UL3385, BLACK</td>
</tr>
<tr>
<td>3 (-)</td>
<td>WIRE, 20 AWG AWM UL3385, GREEN</td>
</tr>
<tr>
<td>4 (+)</td>
<td>WIRE, 20 AWG AWM UL3385, RED</td>
</tr>
</tbody>
</table>

RP8101 no LED
B2

Window to View LED

\( \varnothing 12.00 \) \[.472 \text{ in} \]
\( \varnothing 17.50 \) \[.69 \text{ in} \]

\( \varnothing 17.50 \) \[.689 \text{ in} \]

\( 1.0 \) \[.04 \text{ in} \] Thick Rubber Seal

Panel Cutout

Schematic