Features
- Conductive plastic
- PC board and bushing mount
- Plastic or metal bushing and plastic shaft
- Withstands typical industrial washing processes
- Compact package saves board and panel space

3310 - 9 mm Square Sealed Panel Control

Electrical Characteristics
- Standard Resistance Range - Linear: 2 ohms maximum
- Total Resistance Tolerance - Linear Tapers: ±10 % TRS maximum
- Absolute Minimum Resistance: 1 K ohms to 1 megohm
- ±10 % TRS maximum
- ±5 % TRS maximum
- Dielectric Withstanding Voltage (MIL-STD-202 – Method 301): 1 K ohms to 1 megohm
- ±10 % TRS maximum
- ±5 % TRS maximum
- Effective Electrical Angle: 270° ± 15°
- Contact Resistance Variation: 1 % or 1 ohm (whichever is greater)
- 1 K ohms to 1 megohm
- ±10 % TRS maximum
- ±5 % TRS maximum
- Insulation Resistance: 1,000 megohms minimum
- Operating Temperature Range: -40 °C to +125 °C (-40 °F to +257 °F)
- Storage Temperature Range: -55 °C to +125 °C (-67 °F to +257 °F)
- Temperature Coefficient Over Storage Temperature Range: ±1,000 ppm/°C
- Vibration: ±0.10 G
- Shock: 100 G
- Total Resistance Shift:
- Voltage Ratio Shift:
- ±1 % maximum
- ±1 % maximum
- ±1 % maximum
- 1 K ohms to 1 megohm
- ±10 % TRS maximum
- ±5 % TRS maximum
- Load Life:
- Rotational Life (No Load):
- Total Resistance Shift:
- Contact Resistance Variation:
- Moisture Resistance:
- MIL-STD-202, Method 103, Condition B
- ±10 % TRS maximum
- ±5 % TRS maximum
- ±3 % or 3 ohms, whichever is greater
- ±10 % TRS maximum
- ±5 % TRS maximum
- ±3 % or 3 ohms, whichever is greater
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- ±10 % TRS maximum
- ±5 % TRS maximum
- ±3 % or 3 ohms, whichever is great
### Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,000</td>
<td>202</td>
</tr>
<tr>
<td>5,000</td>
<td>502</td>
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<tr>
<td>10,000</td>
<td>103</td>
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<td>204</td>
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<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

Popular values listed in boldface. Consult factory for special resistances.

### How To Order

#### Model Number Designator

3310 = 9 mm Panel Control

#### Terminal Style Designator

- **Single Cup:**
  - C = In-line Straight Terminals Side Exit 2.54 mm centers
  - R = In-line Terminals Rear Exit 2.54 mm centers
  - P = 5.08 mm x 2.54 mm Triangular Pattern Rear Exit
  - Y = 5.08 mm x 5.08 mm Triangular Pattern Rear Exit

- **Dual Cup (Pot/Pot or Pot/Switch):**
  - H = Dual In-line Straight Terminals Rear Exit 2.54 mm centers

#### Shaft End Designator

- 0 = Shaft End Slotted
- 1 = Shaft End Flatted

#### Shaft Length Designator

- 0 = 12.7 mm FMS Long Plastic Shaft (Available w/bushing only)
- 1 = 19.05 mm FMS Long Plastic Shaft (Available w/bushing only)
- 2 = 5.59 mm FMS Long Plastic Shaft (Bushingless version only)

#### Bushing Designator

- **Pot (or Pot/Pot):**
  - 1 = 6.35 mm x 6.35 mm Plastic
  - 2 = 6.35 mm x 6.35 mm Ni Plated Brass
  - 5 = Bushingless (Board Level Control)

- **Pot/Switch Bushing Designator (use with “H” terminal style only):**
  - 3 = 6.35 mm x 6.35 mm Plastic
  - 4 = 6.35 mm x 6.35 mm Ni Plated Brass
  - 6 = Bushingless (Board Level)

#### Resistance Code

(1st 2 digits are significant, 3rd digit is number of 0s to follow)

#### RoHS Identifier

- L = Compliant

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### Additional Features

- Audio taper versions available as special order
- RoHS compliant*
Product Dimensions

COMMON DIMENSIONS
3310C-001
Plastic Bushing
Slotted Shaft

3310P-001

3310R-001

COMMON DIMENSIONS
3310C-101
Plastic Flatted Shaft

The shaft flat position as shown above is at 50% of the mechanical travel.

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.
3310 - 9 mm Square Sealed Panel Control

Product Dimensions

COMMON DIMENSIONS
3310-002
Metal Bushing

3310P-025 *
Bushingless

NOTE: * Only recommended shaft length for bushingless version

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.
3310 - 9 mm Square Sealed Panel Control

**Product Dimensions**

**COMMON DIMENSIONS**

3310H-003
Pot/Switch Dual Cup
Plastic Bushing

3310H-025*
Pot/Pot Dual Cup
Bushingless

3310H-002
Pot/Pot Dual Cup
Metal Bushing

**DIMENSIONS: MM (INCHES)**

Pot/Pot Dual Cup

- **PRIMARY**
  - CCW: CLOCKWISE
  - CW: CCW

- **SECONDARY**
  - WIPER: CLOCKWISE
  - SWITCH: COMMON

Pot/Single Cup

- **PRIMARY**
  - CCW: CLOCKWISE

**NOTE: * Only recommended shaft length for bushingless version**

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.