Features

- Carbon element
- Assortment of resistance tapers
- Variety of shaft lengths
- Dual gang element
- Flattened, slotted and knurled shaft styles
- Center detent option
- Rotary switch option

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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

Electrical Characteristics

Standard Resistance Range
1K ohms to 1 megohm

Standard Resistance Tolerance
R < 250K ohms .................. ±20 %
R ≥ 250K ohms .................. ±30 %

End Resistance
R < 50K ohms .................. 30 ohms max.
R ≥ 50K ohms .................. 0.1 % of TR max.

Insulation Resistance @ 250 VDC
100 megohms min.

Dielectric Withstanding Voltage
300 VAC

Standard Taper
Linear, Audio

Mechanical Angle
300 ° ±3 °

Environmental Characteristics

Operational Life .................. 15,000 cycles
TR Shift......................... ±15 %

Operating Temperature Range
-10 °C to +55 °C

Resistance to Solder Heat .................. ±5 %

IP Rating......................... IP 40

Mounting Hole Detail

Switch Circuit

PTH902

R1 1

R2 1

Dual Gang

Schematic
**Applications**
- Multimedia sound systems
- Mixers / drums / DJ equipment
- Portable electronics
- Portable appliances

**PTH90 Series Dual Concentric Shaft Panel Control w/Rotary Switch**

**Additional Shaft Styles**

**Knurled Shaft**

<table>
<thead>
<tr>
<th>L1</th>
<th>L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0</td>
<td>8.0</td>
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**Slotted Shaft**

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<tbody>
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</table>

**Hardware**

**Nut**

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<tr>
<th>Diameter</th>
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**Washer**

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<tr>
<th>Diameter</th>
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</table>

**How To Order**

**Model Number**

| PTH90 2 - 0 30 F - 103 B2 |

**Designator**

| PTH90 = Dual Concentric Shaft Panel Control |

**Number of Sections**

- 1 = Dual Gang, No Switch
- 2 = Dual Gang w/Rotary Switch

**Center Detent**

- 0 = No Detent
- 1 = Center Detent

**Shaft Length (FMS)**

- 30 = 30 mm
- 35 = 35 mm
- 40 = 40 mm

**Shaft Style**

- F = Flatted Metal
- S = Slotted Metal
- K = Knurled (18 tooth serrated)

**Resistance Code**

(See Standard Resistance Table)

**Resistance Taper** (See Taper Charts)

**Tapers**

**A Series Tapers**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>30.0</td>
<td>20.0</td>
</tr>
<tr>
<td>35.0</td>
<td>25.0</td>
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**B Series Tapers**

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<tbody>
<tr>
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<td>20.0</td>
</tr>
<tr>
<td>35.0</td>
<td>25.0</td>
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</table>

**C Series Tapers**

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<tbody>
<tr>
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<td>20.0</td>
</tr>
<tr>
<td>35.0</td>
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**Standard Resistance Table**

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**REV. 07/21**

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Users should verify actual device performance in their specific applications.
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