



Features

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



This series is currently available but not recommended for new designs.

PTH90 Series Dual Concentric Shaft Panel Control w/Rotary Switch

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
 Power Rating
 Linear 0.05 watt
 Audio 0.05 watt
 Slider Noise 100 mV max.
 Operating Voltage 50 VAC / 10 VDC

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

Mechanical Characteristics

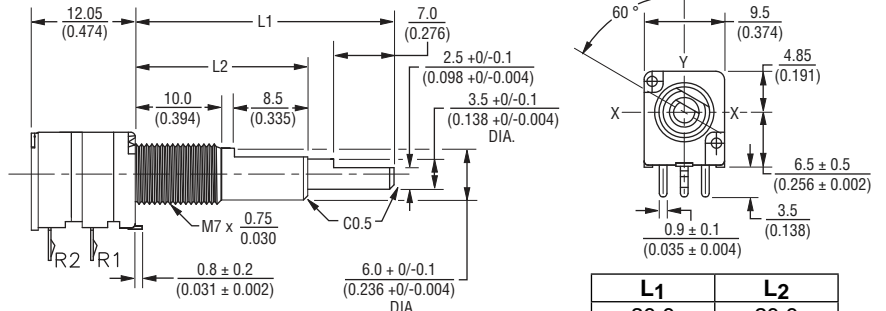
Mechanical Angle 300 ° ±3 °
 Operating Torque 20~250 gf-cm
 Stop Strength 5 kgf-cm max.
 Mounting Torque 10 kgf-cm max.
 Shaft Push/Pull Strength 10 kgf max.
 Soldering Condition
 Manual 300 °C ±5 °C for 3 sec.
 Wave 260 °C ±5 °C for 5 sec.
 Wash Not recommended
 Hardware One flat washer and one mounting nut supplied with each potentiometer

Switch Characteristics

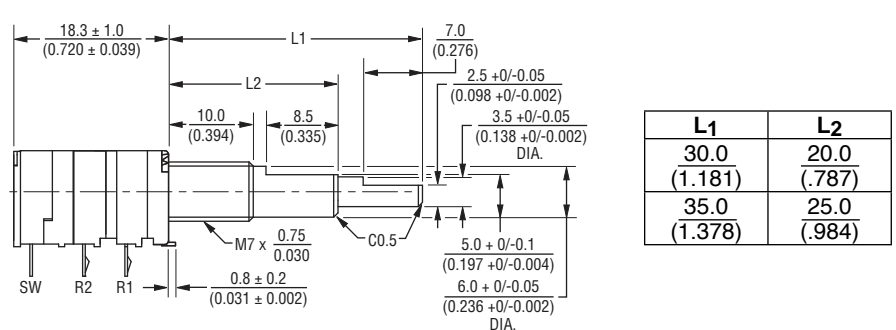
Power Rating 3 A @ 16 VDC
 Contact Resistance 100 milliohms
 Dielectric Strength
 Bushing to Terminals 300 VAC
 Switch Terminals 50 VAC
 Insulation Resistance
 Bushing to Terminals @ 250 VAC
 100 megohms
 Switch Terminals @ 50 VAC
 10 megohms
 Switch Type Rotary
 Contact Arrangement SPST
 Switching Angle 50 ° max.
 Detent Torque 500 kgf-cm
 Operating Life 10,000 cycles

Product Dimensions

PTH901 (Shown with Flatted Shaft)

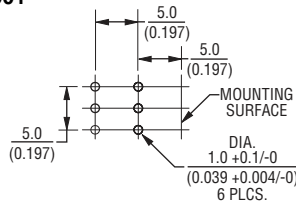


PTH902 (Shown with Flatted Shaft)

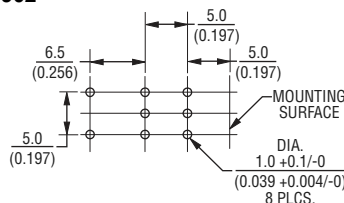


Mounting Hole Detail

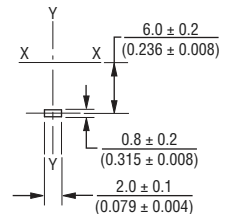
PTH901



PTH902

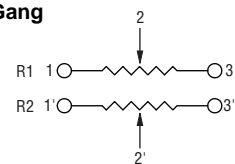


Locating Lug Detail



Schematic

Dual Gang



Switch Circuit



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

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