

Features

- Bushing mount
- Cost saving; pre-phased
- Highly readable clockface readout
- Easy mounting



Model 3600 is not currently available, and not recommended for new designs. Model 3610 is preferred.

3600 - 10-Turn Precision Knobpot®

Electrical Characteristics¹

Standard Resistance Range	100 to 100 K ohms
Total Resistance Tolerance	±5 %
Effective Electrical Angle	3600 ° nominal
Absolute Minimum Resistance.....	1 ohm or 0.1 % maximum (whichever is greater)
Noise.....	100 ohms ENR maximum
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level	1,000 VAC minimum
70,000 Feet.....	400 VAC minimum
Power Rating (Voltage Limited By Power Dissipation or 385 VAC, Whichever is Less)	
+25 °C	1.5 watts
+85 °C.....	0 watt
Insulation Resistance (500 VDC).....	1,000 megohms minimum
Resolution	See recommended part numbers
Accuracy (Correlation of Dial Readout to Voltage Ratio Output)	±0.5 % voltage ratio
Repeatability of Dial Readout	±0.1 % voltage ratio

Environmental Characteristics¹

Operating Temperature Range.....	+1 °C to +85 °C
Storage Temperature Range.....	-55 °C to +85 °C
Temperature Coefficient Over Storage Temperature Range.....	±50 ppm/°C maximum/unit
Vibration.....	10 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift.....	±2 % maximum
Voltage Ratio Shift.....	±0.2 % maximum
Shock.....	50 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift.....	±2 % maximum
Voltage Ratio Shift.....	±0.2 % maximum
Load Life.....	1,000 hours, 1.5 watts
Total Resistance Shift.....	±2 % maximum
Rotational Life (No Load).....	100,000 shaft revolutions
Total Resistance Shift.....	±2 % maximum
Moisture Resistance (MIL-STD-202, Method 103, Condition B).....	
Total Resistance Shift.....	±2 % maximum
IP Rating.....	IP 60

Mechanical Characteristics¹

Stop Strength.....	14 N-cm (20 oz.-in.) minimum
Mechanical Angle.....	3600 ° +20 °, -0 °
Torque (Starting).....	0.21 to 5.65 N-cm (0.3 to 8.0 oz.-in.) maximum
Torque (Running).....	5.65 N-cm (8.0 oz.-in.) maximum
Variation.....	0.71 N-cm (1.0 oz.-in.) maximum
Mounting.....	170-200 N-cm (15-18 lb.-in.) maximum
Backlash.....	1.0 ° maximum
Weight.....	Approximately 17 gm
Terminals.....	Gold-plated J-Hooks
Soldering Condition.....	Recommended hand soldering using Sn95/Ag5 no clean solder, 0.025" wire diameter. Maximum temperature 399 °C (750 °F) for 3 seconds. No wash process to be used with no clean flux.
Markings.....	Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, and date code.

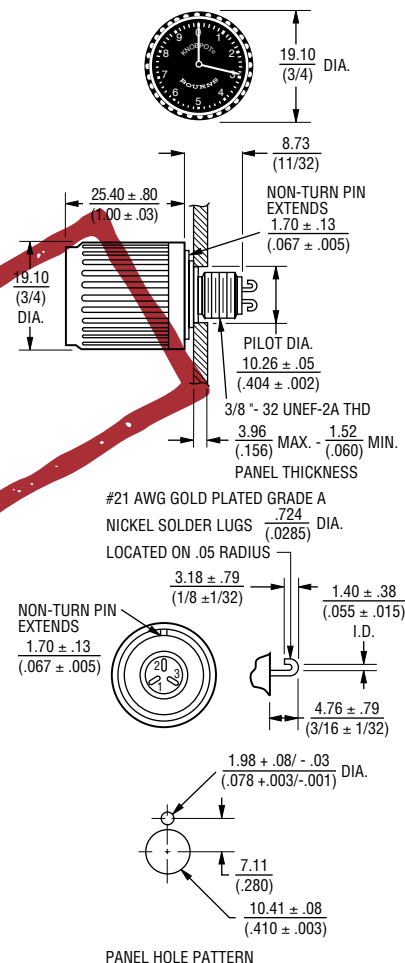
¹At room ambient: +25 °C nominal and humidity nominal, except as noted.

Recommended Part Numbers

Part Number	Resistance (Ω)	Resolution (%)
3600S-1-102	1,000	.035
3600S-1-502	5,000	.027
3600S-1-103	10,000	.022

BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION.

FOR OTHER OPTIONS CONSULT FACTORY.



PANEL HOLE PATTERN

TOLERANCES: EXCEPT WHERE NOTED

DECIMALS: $.XX \pm \frac{.25}{(.010)}$, $.XXX \pm \frac{.13}{(.005)}$

FRACTIONS: $\pm 1/64$

DIMENSIONS: $\frac{\text{MM}}{(\text{IN.})}$

