

7/8" DIAMETER / 3-TURN / WIREWOUND AND HYBRITRON® ELEMENT

- Servo mount
- Shaft supported front and rear by precision ball bearings
- High temperature, moisture resistant, thermosetting plastic housing

FOR ORDERING INFORMATION SEE PAGES 42 .

- Special rotor and slider design assures excellent wiper stability
- Non-standard features and specifications available
- Gangable

BOURNS

Models 3560/3561

Bourns® Precision Potentiometers

3560 3561 Wirewound Element Hybritron® Element

Electrical Characteristics¹

Standard Resistance Range.....	50 to 50KΩ.....	500 to 20KΩ.....
Resistance Tolerance.....	± 3%.....	± 10%.....
Independent Linearity.....	± 0.25%.....	± 0.25%.....
Resolution.....	See ordering information.....	Essentially infinite
Effective Electrical Angle.....	1080° + 10°, - 0°.....	1080° + 10°, - 0°.....
Absolute Minimum Resistance/.....	1Ω or 0.1%,.....	0.1% maximum
Minimum Voltage (whichever is greater).....
Noise.....	100Ω ENR maximum.....	Output smoothness 0.1%
Power Rating (Voltage Limited By Power Dissipation or 325 VAC, Whichever is Less)		
+ 70°C.....	1.5 watt.....	1.5 watt.....
+ 125°C.....	0 watt.....	0 watt.....
Dielectric Strength.....	MIL-R-12934.....	MIL-R-12934.....
Sea Level.....	1,000 VAC minimum.....	1,000 VAC minimum.....
80,000 Feet.....	300 VAC minimum.....	300 VAC minimum.....
Insulation Resistance (500 VDC).....	1,000 megohms minimum.....	1,000 megohms minimum.....

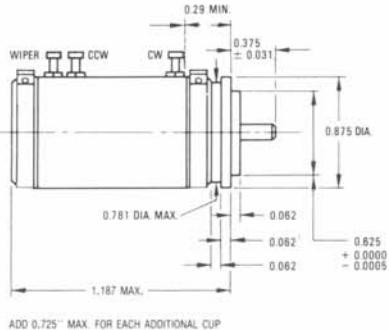
Environmental Characteristics¹

Operating Temperature Range.....	- 65°C to + 125°C.....	- 65°C to + 125°C.....
Temp. Coefficient of Wire.....	.20ppm/°C maximum.....	.100ppm/°C maximum.....
Humidity.....	MIL-R-12934.....	MIL-R-39023.....
Vibration.....	Humidity Cycling MIL-R-12934, 20G.....	Humidity Cycling MIL-R-39023, 20G.....
Wiper Bounce.....	0.1 millisecond maximum.....	0.1 millisecond maximum.....
Wiper Shift.....	0.2% maximum.....	0.1% maximum.....
Shock.....	MIL-R-12934, 100G.....	MIL-R-39023, 100G.....
Wiper Bounce and Wiper Shift.....	Same as vibration.....	Same as vibration.....
Load Life.....	1,000 hours.....	1,000 hours.....
Resistance Shift.....	.2% maximum.....	5% maximum.....

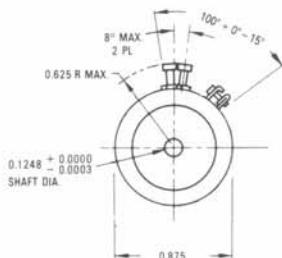
Mechanical Characteristics¹

Mechanical Angle.....	1080° + 10°, - 0°.....	1080° + 10°, - 0°.....
Shaft Runout.....	0.001 in. T.I.R.....	0.001 in. T.I.R.....
Lateral Runout.....	0.003 in. T.I.R.....	0.003 in. T.I.R.....
Pilot Diameter Runout.....	0.0015 in. T.I.R.....	0.0015 in. T.I.R.....
Shaft End Play.....	0.003 in. T.I.R.....	0.003 in. T.I.R.....
Shaft Radial Play.....	0.002 in. T.I.R.....	0.002 in. T.I.R.....
Rotational Life, Shaft Revolutions.....	600,000.....	4,000,000.....
Stop Strength.....	96 oz-in. minimum.....	96 oz-in. minimum.....
Torque.....	0.4 oz-in. maximum starting/ 0.3 oz-in. maximum running	0.4 oz-in. maximum
Moment of inertia.....	0.25 g cm ²	0.25 g cm ²
Ganging.....	3 cups maximum.....	3 cups maximum.....
Weight.....	Approximately 23 g.....	Approximately 23 g
Terminals.....	Gold plated turret type.....	Gold plated turret type
Markings.....	Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram and date code.	

3560/3561



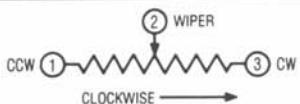
ADD 0.725" MAX FOR EACH ADDITIONAL CUP



TOLERANCES: EXCEPT WHERE NOTED

DECIMALS: .XX ± .010 , .XXX ± .005

DIMENSIONS: IN.



¹At room ambient: + 25°C nominal and 50% relative humidity nominal, except as noted.
Specifications are subject to change without notice.