



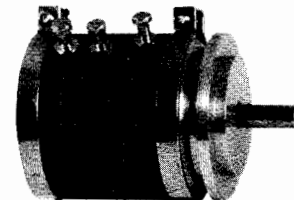
Model 3560
BOURNS Potentiometer
7/8" Diameter 3-Turn Servo Mount
WIREWOUND ELEMENT

OBSOLETE 2002

FEATURES

- Outstanding resistance to humidity. Exceeds humidity cycling requirements of MIL-R-12934.
- Shaft supported by front and rear lid precision ball bearings.
- High temperature, moisture resistant thermosetting plastic housing.
- SILVERWELD® termination eliminates vulnerable single wire termination.
- Performance of the Model 3560 is guaranteed by the Bourns Reliability Assurance Program, which includes individual inspection to published electrical and physical characteristics.
- Custom design capability is available to satisfy your most demanding special requirements.

Actual Size



STANDARD RESISTANCES

Resistance (Ohms)	Part Number**	Resolution (Percent)
25	3560S-1-250	0.187
50	3560S-1-500	0.149
100	3560S-1-101	0.121
200	3560S-1-201	0.102
500	3560S-1-501	0.076
1,000	3560S-1-102	0.065

* Sleeve type bearings available at reduced cost Model 3560S-92-RC.

Resistance (Ohms)	Part Number**	Resolution (Percent)
2,000	3560S-1-202	0.063
5,000	3560S-1-502	0.047
10,000	3560S-1-103	0.041
20,000	3560S-1-203	0.031
50,000	3560S-1-503	0.024
100,000	3560S-1-104	0.019

**The last three digits of the part number represent the resistance in standard code.

BOURNS Potentiometer Model 3560

STANDARD SPECIFICATIONS

THE SPECIFICATIONS LISTED BELOW ARE FOR THE STANDARD MODEL. MODIFICATIONS OF ALL TYPES (MECHANICAL, ELECTRICAL AND ENVIRONMENTAL) CAN BE CUSTOM ENGINEERED TO YOUR SPECIFIC REQUIREMENTS.

ELECTRICAL CHARACTERISTICS

Resistance Range	25 ohms to 100K
Resistance Tolerance*	±3%
Linearity (Independent)*	±0.25%
Resolution	See standard resistance chart
Effective Electrical Angle*	1080° (+10°/-0°)
Absolute Minimum Resistance	1 ohm or 0.1%, whichever is greater
Noise*	100 ohms ENR maximum
Power Ratings:	
70°C	1.5 watt
125°C	0 watt
Dielectric Strength	MIL-R-12934
Room Conditions	1000 volts AC
80,000 feet (0.8" Hg.)	300 volts AC
Insulation Resistance, 500 volts DC*	1000 megohms minimum

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range	- 65 to +125°C
Temperature Coefficient Of Resistance Wire①	20 ppm/°C maximum
Humidity	MIL-R-12934, humidity cycling
Vibration	MIL-R-12934, 20G
Discontinuity	0.1 millisecond maximum
Wiper Shift, maximum	0.2%
Shock	MIL-R-12934, 100G
Discontinuity and Wiper Shift	Same as Vibration
Load Life	1000 hours MIL-R-12934
Resistance Shift	2.0% maximum

Sand and Dust	MIL-E-5272
Fungus	MIL-E-5272
Salt Spray	MIL-R-12934

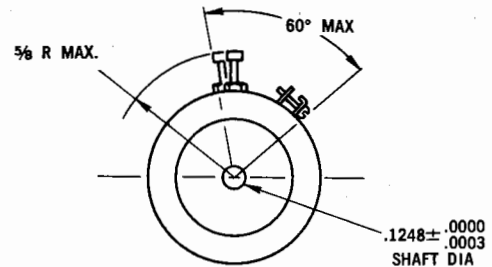
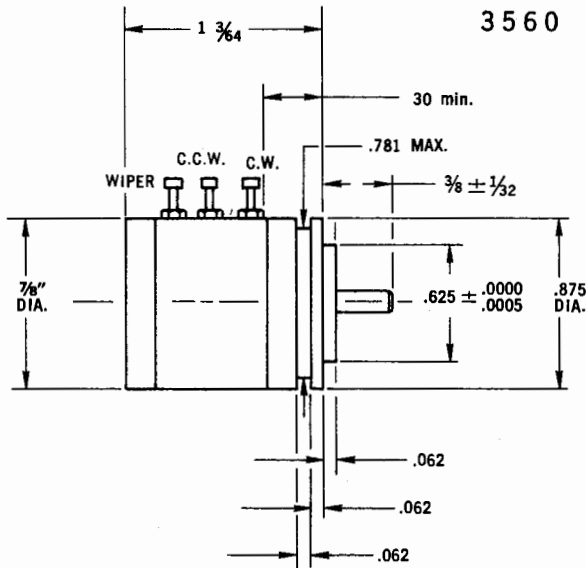
MECHANICAL AND PHYSICAL CHARACTERISTICS

Mechanical Angle*	1080° (+10°/-0°)
Shaft Runout*001 in. T.I.R.
Shaft End Play*003 in. T.I.R.
Shaft Radial Play*002 in. T.I.R.
Pilot Diameter Runout*0015 in. T.I.R.
Lateral Runout*003 in. T.I.R.
Stop Strength	96 oz./In.
Torque*	0.4 oz.-in. maximum (starting) 0.3 oz.-in. maximum (running)
Ganging	3 cups maximum (add 75% for each additional cup)
Rotational Life①	600,000 shaft revolutions
Moment of Inertia	0.25 gm cm ²
Weight	Approximately 0.8 oz.
Terminals	Gold-plated turret type
Markings*	Manufacturer's name and part number, resistance value and tolerance, linearity, tolerance, wiring diagram, and date code.

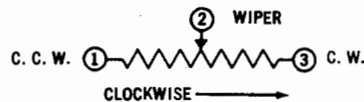
* 100% or statistical sampling inspection performed to insure highest quality.

① Consult manufacturer for complete specification details for resistance below 100 ohms.

Specifications are subject to change without notice.



TOLERANCES: EXCEPT WHERE NOTED
DECIMALS: .XX ± .010, .XXX ± .005
FRACTIONS: ± 1/64



NOTE:
ADD .725 to 1 3/64" DIMENSION FOR EACH ADDITIONAL CUP

