

Model 3650

Digital KNOBPOT® Potentiometer

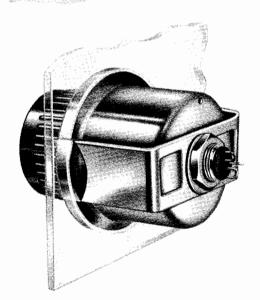
10-Turn 1¼" Diameter





- · Integral digital readout, knob, and potentiometer
- · Requires less front panel space than most dials alone
- · Readability 1 part in 10,000
- Accuracy Relationship of readout to wiper output within 0.1% of the total applied voltage
- Repeatability Within 0.05% of total applied voltage
- SILVERWELD® termination eliminates vulnerable single-wire termination
- Individual inspection of each potentiometer to guaranteed electrical and physical specifications
- Performance guaranteed by Bourns Reliability Assurance Program





STANDARD RESISTANCES

Resistance (Ohms)	Part Numbers*	Resolution (Percent)	Resistance (Ohms)	Part Numbers*	Resolution (Percent)
100	3650S-1-101	.053	20,000	3650S-1-203	.011
200	3650S-1-201	.036	50,000	3650S-1-503	.009
500	3650S-1-501	.026	75,000	3650S-1-753	.008
1,000	3650S-1-102	.022	100,000	36508-1-104	.008
2,000	3650S-1-202	.017	200,000	3650S-1-204	.005
5,000	3650S-1-502	.012	250,000	3650S-1-254	.005
10,000	3650S-1-103	.010	500,000	3650S-1-504	.004

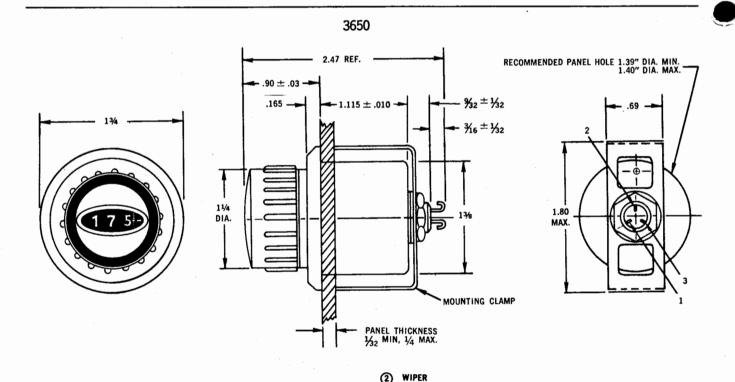
^{*}The last three digits of the part number represent the resistance in standard code.

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SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Resistance Range	100Ω to 500K ohms
Resistance Tolerance*	±3%
Readout Accuracy* (correlation of Digital II 100 & 200 Ω	±0.20% voltage ratio ±0.15% voltage ratio ±0.12% voltage ratio
Readability of Reading*	±0.05% voltage ratio
Resolution	See Standard Resistance Table
Effective Electrical Angle*	3600° nominal
Absolute Minimum Resistance*	1.0Ω or 0.1%, whichever is greater
Noise*	100Ω maximum
Power Rating 25°C	
Dielectric Strength Sea Level 70,000 feet	1000 volts AC minimum
Insulation Resistance, 500 volts DC*	1000 megohms minimum
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature Range	—25°C to +85°C
Temperature Coefficient of Wire	20 PPM/°C maximum
Humidity	MIL-STD-202, Method 103

Vibration	MIL-R-12934, 10G				
Wiper Bounce	0.1 millisecond maximum				
Wiper Shift	0.2% maximum				
Oh a ch	**** 5 500				
Shock					
Wiper Bounce and Wiper Shift	Same as vibration				
Load Life	MIL-R-12934, 1000 hours				
Resistance Shift					
Sand and Dust	MIL-E-5272				
Fungus	MIL-E-5272				
Salt Spray	MII -9-12024				
Sait Spray					
MECHANICAL AND PHYSICAL CHARACTERISTICS					
Mechanical Angle*	3600° (+10°, —0°)				
Rotational Life	200,000 revolutions				
Stop Strength	48 ozin. minimum				
Torque*					
Starting	1.0 to 15.0 or in				
Running	15.0 OZIN. MaxIMUM				
Weight	Approximately 4 oz.				
Terminals	Gold-plated hooks				
Markings* Manufacturer's name, part number, resistance value and date code.					
* 100% or statistical sampling inspection perfo	rmed to insure highest quality.				
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Specifications are subject to change without not	ce.				



CLOCKWISE -

NOTE: LOCKWASHER, HEX NUT, AND 2 MOUNTING STRAPS SUPPLIED WITH EACH UNIT.

TOLERANCES: EXCEPT WHERE NOTED DECIMALS: .XX \pm .010, XXX \pm .005 FRACTION: $\pm 1/64$