



7/8", 1 1/4" ϕ , 10-TURN DIGITAL KNOBPOT® POTENTIOMETERS WIREWOUND ELEMENT SNAP IN MOUNTING MODEL 3610 CLAMP MOUNTING MODEL 3650

- Highly readable digital readout
- Requires less front panel space than most dials alone
- Integral digital readout, knob, and potentiometer
- Cost saving: Pre-phased

STANDARD SPECIFICATIONS	MODEL 3610 7/8" ϕ Snap In Mounting	MODEL 3650 1 1/4" ϕ Clamp Mounting
Electrical Characteristics		
Resistance Range	100 Ω – 100 K Ω	
Resistance Tolerance	$\pm 5\%$	$\pm 3\%$
Readout Accuracy (Voltage Ratio)	$\pm 0.5\%$ all TR values	$\pm 0.20\%$ 100 Ω – 200 Ω $\pm 0.15\%$ 500 Ω – 5 K Ω $\pm 0.12\%$ 10 K Ω – 20 K Ω $\pm 0.10\%$ 50 K Ω – 100 K Ω
Repeatability of Dial Reading	$\pm 0.1\%$ voltage ratio	$\pm 0.05\%$ voltage ratio
Effective Electrical Angle	3600° nominal	
Absolute Minimum Resistance	1.0 Ω or 0.1%, whichever is greater	
Noise	100 Ω ENR max.	
Power Rating	25°C 85°C	1.5 W 2.5 W 0 W
Dielectric Strength	MIL-STD-202	MIL-R-12934
Sea Level	1000 V ~ min.	1000 V ~ min.
70,000 feet	400 V ~ min.	250 V ~ min.
Insulation Resistance, 500 V =	1000 Meg. Ω min.	
Environmental Characteristics		
Operating Temperature Range	– 25°C to + 85°C	
Temperature Coefficient of Wire	20 ppm/°C max.	
Humidity	MIL-STD-202, Methode 103	
Vibration	MIL-R-12934, 10G	
Wiper Bounce	0.1 millisecond max.	
Wiper Shift	0.2% max.	
Shock	MIL-R-12934, 50G	
Wiper Bounce and Wiper Shift	Same as Vibration	
Load Life	MIL-R-12934, 1000 hours	
Resistance Shift	2.0% max.	
Sand, Dust, Fungus		MIL-E-5272
Salt Spray		MIL-R-12934
Mechanical and Physical Characteristics		
Mechanical Angle	3600° + 20° – 0°	3600° + 10° – 0°
Rotational Life	50,000 dial revolutions	100,000 dial revolutions
Stop Strength	20 oz.-in. min.	48 oz.-in. min.
Torque, Starting and Running	1.0 to 7.0 oz.-in.	1.0 to 15.0 oz.-in.
Weight	approx. 20 g	approx. 114 g
Terminals	Gold plated solder lugs	
Markings	Manufacturer's name, part number, resistance value, date code	

Specifications are subject to change without notice.

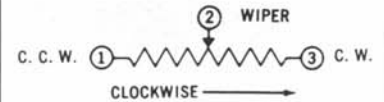
BOURNS®

ORDERING INFORMATION

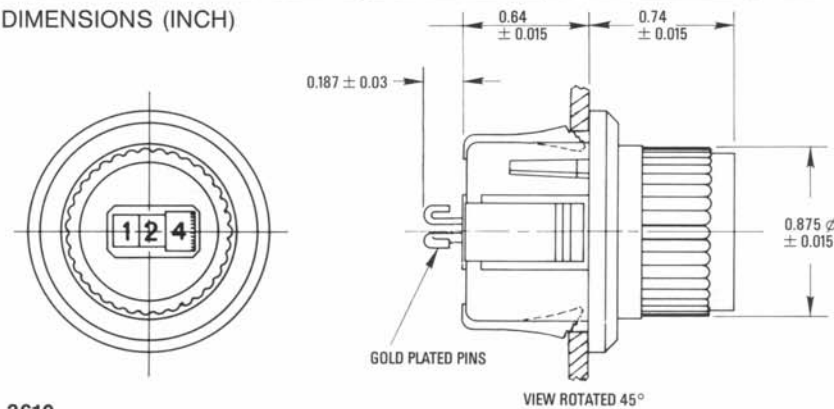
Resistance Ω	Part Number*	Resolution %	Part Number*	Resolution %
100	3610S-1-101	0.057	3650S-1-101	0.060
200	3610S-1-201	0.047	3650S-1-201	0.045
500	3610S-1-501	0.045	3650S-1-501	0.031
1,000	● 3610S-1-102	0.035	3650S-1-102	0.030
2,000	3610S-1-202	0.030	3650S-1-202	0.021
5,000	● 3610S-1-502	0.027	● 3650S-1-502	0.016
10,000	● 3610S-1-103	0.022	● 3650S-1-103	0.019
20,000	3610S-1-203	0.017	3650S-1-203	0.013
50,000	3610S-1-503	0.013	3650S-1-503	0.011
100,000	3610S-1-104	0.012	3650S-1-104	0.010

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

● Preferred resistance values

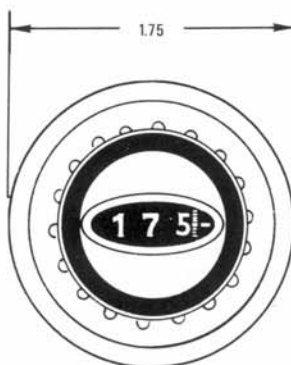
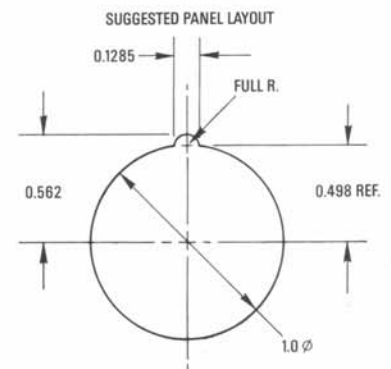
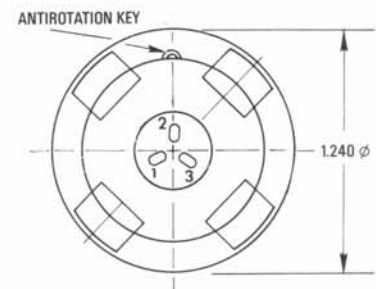


DIMENSIONS (INCH)

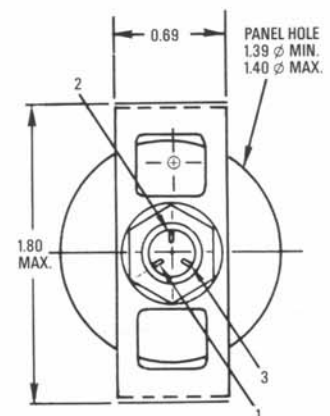
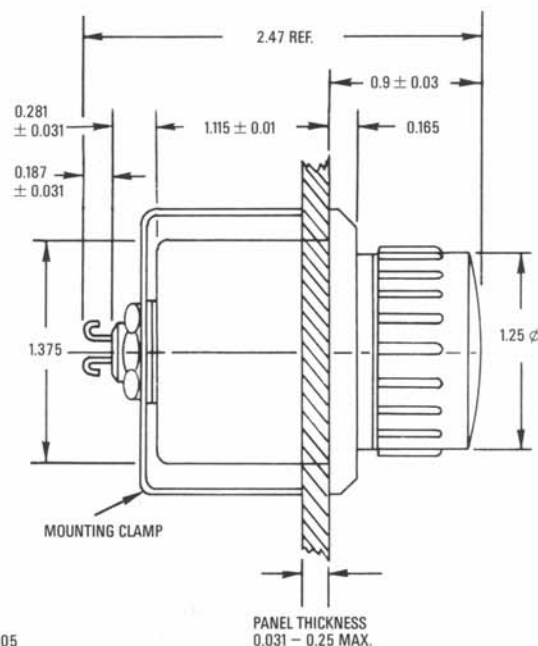


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NOTES: 1. SNAP-IN MOUNTING CUP ACCOMMODATES
PANEL THICKNESS, 0.025 - 0.078 AND 0.125
(No. 22 GA thru No. 14 GA)



3650



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

TOLERANCES: EXCEPT WHERE AS NOTED
DECIMALS: .XX ± 0.010, .XXX ± 0.005

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