Single-Turn Precision Potentiometer

Model 3371

Features:

- 1-5/16" diameter
- Conductive plastic
- Low noise
- Excellent output smoothness







Electrical

Resistance Range	nce Range 1K to 900K Ohn		
Standard Resistance Tolerance	±10%		
Minimum Practical Resistance Tolerance	±5%		
Independent Linearity ²	±0.5%		
Minimum Practical Independent Linearity	±0.25%		
Input Voltage	400 VDC maximum, not to exceed power rating		
Power Rating	0.75 Watt at 65°C, derating to 0 at 105°C		
Dielectric Strength	1,000 V rms		
Insulation Resistance	1,000 Megohms minimum		
Output smoothness	0.1% maximum		
Actual Electrical Travel	348° nominal		
Electrical Continuity Travel	350° minimum		
End Voltage	maximum 0.5% of input voltage		
Tap Tolerance	maximum 0.5% of input voltage		
Resolution	essentially infinite		
Temperature Coefficient of Resistance ³	-400 ppm/°C typical		
Temperature Coefficient of Output Voltage ⁴	±10 ppm/°C typical		

Mechanical

Total Mechanical Travel	360° Continuous (350° ±2° with stop feature)
Number of Gangs	1 maximum
Weight	1.5 oz. nominal
Shaft Runout	0.0025" maximum T.I.R.
Pilot Diameter Runout	0.0025" maximum T.I.R.
Lateral Runout	0.003"maximum T.I.R.
Shaft Radial Play	0.004" maximum
Shaft End Play	0.007" maximum
Start/Run Torque	1.0 ozin. maximum, ES option adds 0.5 ozin.

¹ Specifications subject to change without notice.

² Linearity is measured between 1% and 99% of input voltage.

4 Measured with 10 VDC CW to CCW and slider at 50% of electrical travel

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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³ Special TCR available to ±100 ppm/°C.

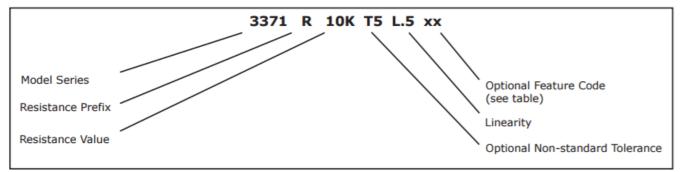
Single-Turn Precision Potentiometer



Environmental

-25°C to +105°C
5 cycles, -65°C to +105°C, maximum 10% ΔR
6 ms sawtooth, 100 G's, 0.1 ms maximum discontinuity
10 G's, 10 to 500 Hz, maximum 2% $\Delta R,$ 0.1 ms maximum discontinuity
five 24 hour cycles, maximum 25% ΔR
1,000 hours at 105°C, maximum 0.5% ΔR
2 million shaft revolutions
2 million shaft revolutions, maximum 10% ΔR
IP50, IP66 available as option (feature code ES)

Ordering Information



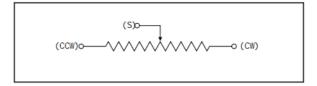
FEATURE CODES

Center Tap	СТ	
Linearity Tape	LT	
Flatted Shaft	FS SS SL	
Slotted Shaft		
Shaft Lock		
Stop	ST	
Seal (IP66)	ES	
	•	

When multiple Optional Feature codes are used the P/N shall be in the same sequence as listed in this table (top to bottom).

CIRCUIT DIAGRAM

STANDARD RESISTANCE VALUES



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Γ	1K	5K	20K	100K
	2K	10K	50K	

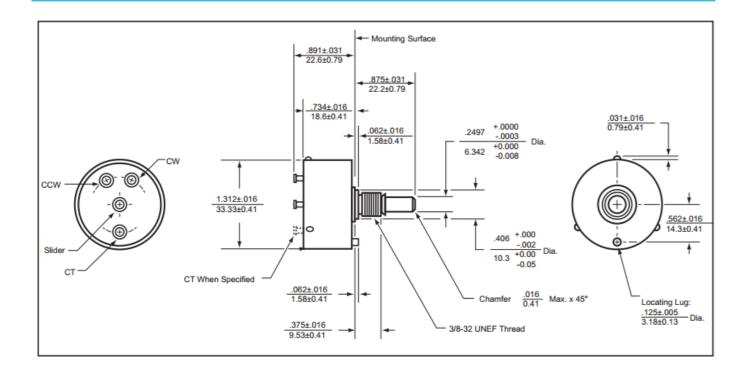
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