

Model 6130 series

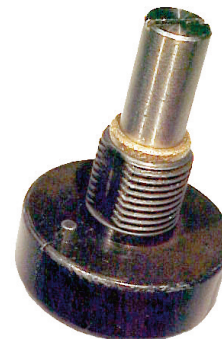
Low Profile 7/8" Diameter

Single Turn Conductive Plastic

Bronze Bearing

Position Sensor

Precision Potentiometer



MODEL STYLES AVAILABLE

6134	6 mm Shaft, 3/8" Bushing
6137	1/4" Shaft, 3/8" Bushing
6138 for heavy side load applications	1/4" Shaft, 3/8" Bushing
6130-XXX	Custom models are available; Contact Customer Service for special features or tolerances

ELECTRICAL¹

Resistance Range	1K to 100K Ohms
Standard Resistance Tolerance	±20%
Independent Linearity ²	±1% (±2% for values greater than 20K Ohms)
Minimum Practical Independent Linearity	±0.5%
Input Voltage	400 VDC maximum, not to exceed power rating
Power Rating	1.0 Watt at 70°C, derating to 0 at 125°C
Dielectric Strength	750 V rms
Insulation Resistance	1,000 Megohms minimum
Output smoothness	0.1% maximum
Actual Electrical Travel	340° ±3° (300° ±3° with stop feature)
Electrical Continuity Travel	350° ±3° (343° ±3° with stop feature)
End Voltage	maximum 0.5% of input voltage
Resolution	essentially infinite
Temperature Coefficient of Resistance	-400 ppm/°C typical
Temperature Coefficient of Output Voltage ³	±10 ppm/°C typical

MECHANICAL

Total Mechanical Travel	360° continuous (343° with stop feature)
Weight	0.6 oz. typical
Backlash	1° maximum
Static Stop Strength	40 in.-oz. maximum
Start/Run Torque	0.5 in.-oz. maximum
Panel Nut Tightening Torque	25 in. lb. Max.
Construction	zinc die cast housing, stainless steel shaft, bronze bearing
Hazardous Materials	Pb free, E.U. RoHS compliant, no REACH SVHC's

¹ Specifications subject to change without notice.

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

³ Measured with 10 VDC CW to CCW and slider at 50% of electrical travel

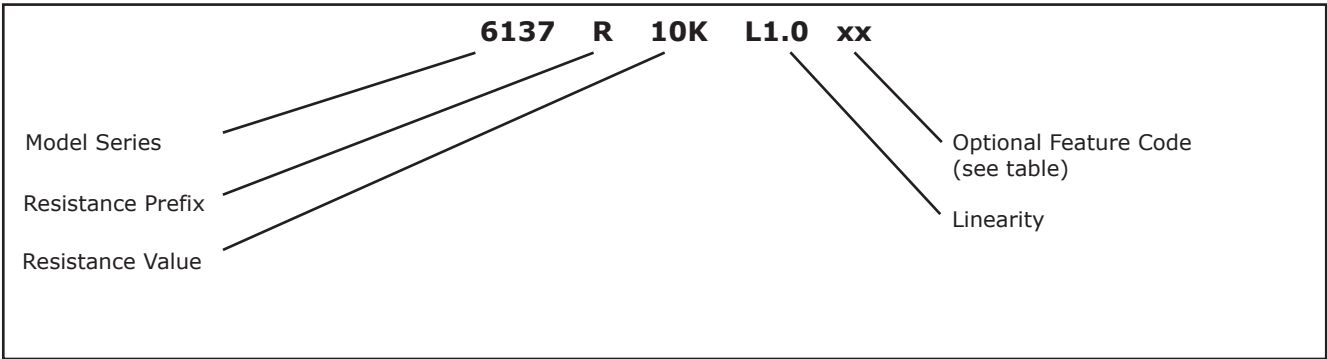


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ENVIRONMENTAL (MIL-PRF-39023)

Operating Temperature Range	-25°C to +125°C
Temperature Cycling (static)	5 cycles, -40°C to +125°C, maximum 15% ΔR
Shock	6 ms sawtooth, 100 G's, 0.1 ms maximum discontinuity
Vibration	10 G's, 10 to 500 Hz, maximum 5% ΔR, 0.1 ms maximum discontinuity
Moisture Resistance	five 24 hour cycles, maximum 25% ΔR
High Temperature Exposure	1,000 hours at 125°C, maximum 0.5% ΔR
Rotational Life (model 6137)	5 million shaft revolutions
Rotational Life (model 6138)	10 million shaft revolutions

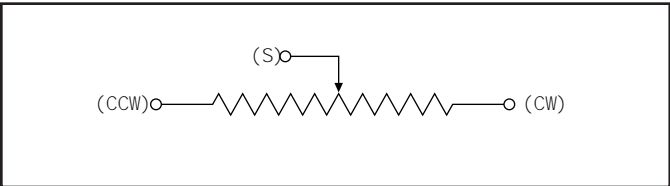
ORDERING INFORMATION



FEATURE CODES

Center Tap	CT
Stop	ST
Flatted Shaft (slotted is standard)	FS

CIRCUIT DIAGRAM



STANDARD RESISTANCE VALUES

1K	5K	20K	100K
2K	10K	50K	

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OUTLINE DRAWING

