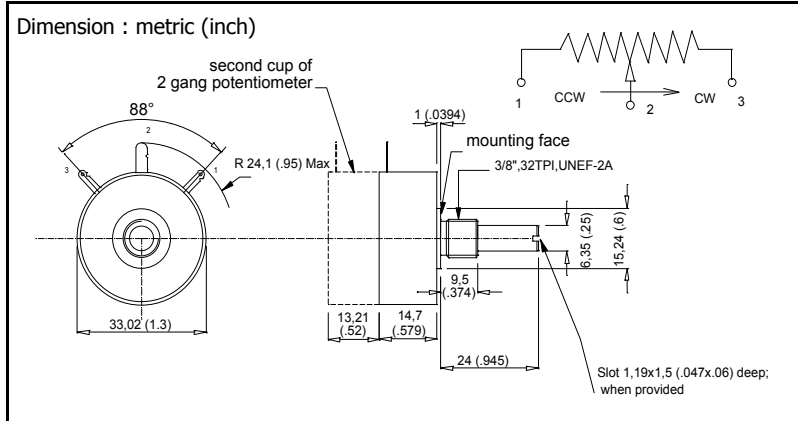


These industrial, high resolution, low cost, conductive plastic potentiometers are especially suitable for feed-back applications. Many options such as rear shaft extension and 2 and 3 sections allow to use them as semi precision angular sensors.

1,3" Single Turn Precision Conductive Plastic Potentiometer



- Precision conductive plastic element with high resolution
- Resistance range 2K Ω to 100K Ω \pm 20%
- Standard linearity tolerance \pm 2%
- Rotational life 2 million shaft revolutions
- Rear shaft extension and multi-sections
- Mechanical angle 340° with endstop
- 360° without endstops
- Bushing with sleeve bearing
- Special operating torque

ELECTRICAL CHARACTERISTICS

Resistance Element	Conductive Plastic
Standard Resistance Range (ohm)	2K, 5K, 10K (other values upto 100K)
Standard Resistance Tolerance (%)	\pm 20
Best possible Resistance Tolerance (%)	\pm 10
Standard Independent Linearity Tolerance (%)	\pm 2
Best possible Independent Linearity Tolerance (%)	\pm 1
Type of Linearity (IEC 393)	Independent Linearity
Electrical Travel	350° \pm 4° (R33PC), 340° \pm 4° with endstops (R33P)
Resolution	Essentially infinite
TCR	\pm 600 ppm / °C
End Voltage (% max)	0.5
Power Rating (+40 °C)	2 watt
Insulation Resistance	1000 Mohm at 500 VDC
Dielectric Strength	1000 VAC
Maximum wiper current	1 mA

MECHANICAL CHARACTERISTICS

Mechanical Angle (R33PC)	360° continuous
Mechanical Angle (R33P)	340° \pm 5° with endstops
Bearing Type	Sleeve
Torque Starting (OZ - In)	1,0
Torque Running (OZ - In)	0,70
Rotational life (shaft revolutions)	2 000 000
Operating Temperature	-35°C to +105°C
Housing	Thermoplast
Shaft	Stainless steel
Terminals	Brass, Gold Plated
Bushing	Brass

OPTIONS UPON REQUEST :

- Special resistance values
- Special electrical angles
- Special shaft length and type
- O-ring on shaft
- Special linearity and resistance tolerances
- Rear shaft extension
- Center-tap
- 2 and 3 sections
- IP 65 protection

The technical data have been established under laboratory conditions and are typical. Operating conditions are different in many applications. The user is therefore responsible for the product application and it is strongly recommended, that he verifies the suitability. Technical liabilities are only accepted with specific written confirmation.