

Panel Potentiometers

Type 5930 Series

Type 5930 Series



This precision 10 turn potentiometer has been developed to satisfy a wide range of applications where high resolution and low temperature coefficient and fine linearity are of particular importance. Tyco invite opportunities for custom design of this product where the quantities are suitable. With a power rating of 2W at 70°C and <0.25% linearity this multturn potentiometer is an important addition to the wide range of professional approved spindle operated potentiometer products on offer from Tyco.

Key Features

- Less Than 3/4" Required Behind Panel
- High Performance at Low Cost
- Rugged Mechanical Construction
- Sealed Option for Board Washing
- Metal or Plastic Shaft/Bushing
- 3 & 5 Turn Options Available
- 6mm Metric Shaft Version Available

Characteristics - Electrical

Resistance Range:	200R - 100K
Resistance Tolerance:	± 5%
Linearity (Independent):	± 0.25%
Effective Electrical Angle:	3600° + 10° - 0°
Absolute Minimum Resistance:	± 1%
Noise:	100 ohms ENR maximum
Power Rating @ 40°C:	2.0 Watts derating to 0 at +125°C
Dielectric Strength:	2000V AC
Insulation Resistance 500V:	1000M minimum

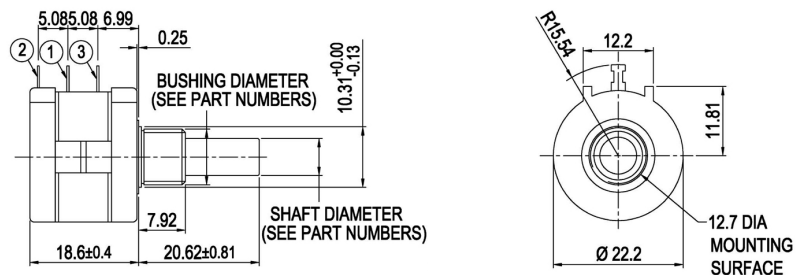
Characteristics - Mechanical

Operating Temperature Range:	-55°C to +125°C
Temperature Coefficient:	50ppm/°C maximum
Vibration:	15G
Wiper Bounce:	0.1 milliseconds maximum
Shock:	50G 0.1ms maximum
Load Life MIL - R - 12534:	1000 hours ΔR 2% maximum

Characteristics - Environmental

Mechanical Angle:	3600° +15° -0°
Shaft Runout:	0.003" TIR
Lateral Runout:	0.008" TIR
Pilot Diameter Runout:	0.003" TIR
Shaft End Play:	0.010" TIR
Shaft Radial Play:	0.005" TIR
Rotational Life:	1,000,000 revolutions
Stop Strength:	42.0 Ncm minimum
Torque (Starting and Running):	0.56 Ncm maximum unsealed/1.0 Ncm sealed
Weight:	21 grams approximately
Terminals:	Solder Lugs
Mounting Torque:	17 - 20 mNm

Dimensions



How to Order

5930	S	A	104	J	S
Common Part	No. of Sections	Identifier Ref.	Resistance Value	Tolerance	Shaft Options
5930 - 10 Turn	S - Single Section D - Dual Section	A - Standard F - Sealed X - See Customer Drawing	The first two digits are significant figures of resistance value and the third denotes the number of zeros following. e.g. 500R: 501 1K: 102 10K: 103 100K: 104	J - 5%	(Dim B x A) R - 1/8" shaft x 17.5mm FMF M - 6mm shaft x 20.6mm FMF S - 1/4" shaft x 20.6mm FMF