

# **Type 31 Series**

# **Key Features**

- Versatile Design can be Customised to Suit Your Requirements
- **SPST Switch Style**
- Low Cost Twist Tab Model
- **PC Mounting Bracket**
- Insulated Shafts Up To 50mm
- **Non Linear Laws**
- Available with Choice of Bush Styles
- **■** Eyelet or PC Terminations



TE Connectivity will customize these neat 16mm diameter control potentiometers to suit your requirements. They comprise a printed carbon resistance element with 0.25 W current handling and are avaliable with various bush, termination and spindle styles.

As an additional feature, the range includes a twist tab design with mounting bracket applications for use where low price is an important consideration.

#### **Characteristics - Electrical**

Resistance Range (Law):	1K Ohm to 1M Ohm Linear
	4K7 to 470K (Non Linear)
Resistance Values:	1, 2.2 and 4.7 per decade
Resistance Tolerance:	± 20% (± 10% by selection)
Rated Dissipation at 40°C:	0.25W (Linear), 0.125W (Non Linear)
Limiting Element Voltage:	350Vdc or ac RMS
Electrical Rotation:	267° NOM without switch, 240° NOM with switch
Terminal Resistance:	5 Ohms, Max.
Noise (ENR):	2% Max. (Linear), 3% Max. (Non Linear)
Insulation Resistance:	4 G Ohms Min.
Voltage Proof:	500 Vac peak

## **Characteristics - Mechanical**

Operating Torque:	15 mNm, Max.
Mechanical Rotation:	270° Nominal
End Stop Torque:	350 mNm, Max.

#### **Characteristics - Environmental**

Limits of Resistance Change:	15% (After 1000 hours endurance)
Temperature characteristics of resistance ( 20°C to 70°C ):	5%
Bump Severity:	390m/s², 4000 Bumps
Vibration Severity:	10 - 500 Hz, 0.75mm or 98m/s <sup>2</sup>
Climatic Category:	8 days @ 36°C 82% RH DR < 15%
Mechanical Endurance:	15000 Operations ( Min )



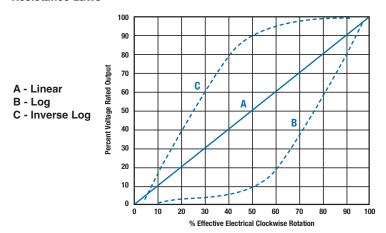
# **Type 31 Series**

# **DIY Design**

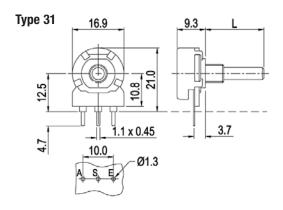
The 31 Series can be customised to suit your individual requirements with features such as detent action,

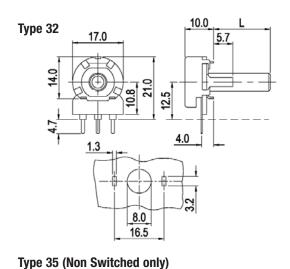
Please call our technical sales team to discuss variations on these 16mm diameter devices.

## **Resistance Laws**

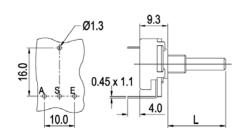


## **Dimensions**





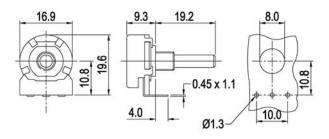
Type 34 (Non Switched only)



9.3

4.0 10.0 Ø1.3

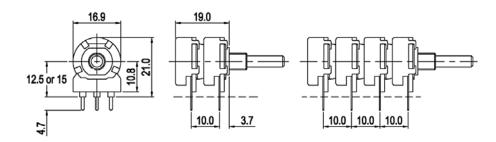
**Type 36** 



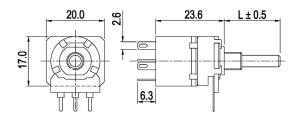


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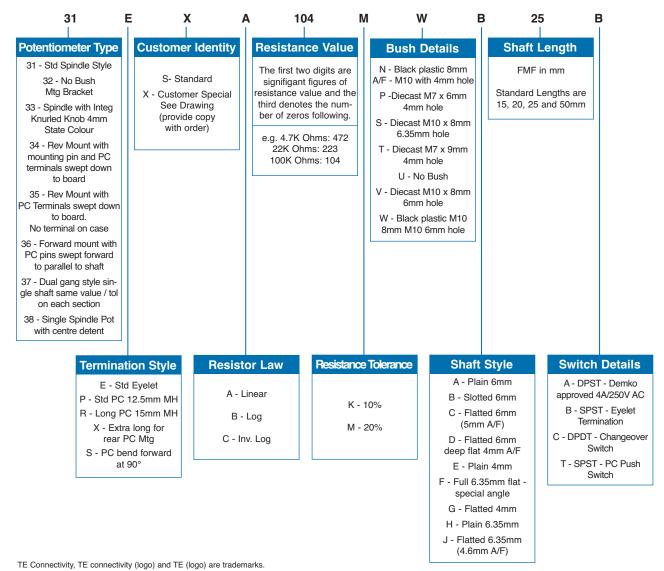
## **Multi Ganged Types**



## **Switched Types**



#### **How to Order**



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