

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 available 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/s ² , 4000 Bumps					
Vibration Severity:	10 - 500 Hz, 0.75mm or 98m/s ²					
Climatic Category:	8 days @ 36°C 82% RH DR < 15%					
Mechanical Endurance:	15000 Operations (Min)					



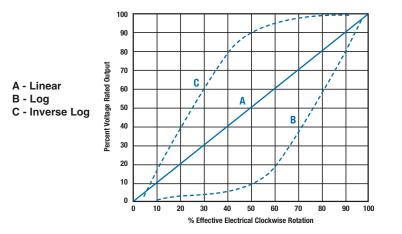
Type 31 Series

DIY Design

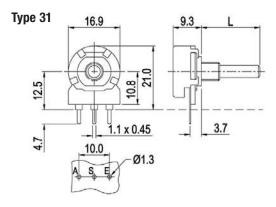
The 31 Series can be customised to suit your individual requirements with features such as detent action, track centre tap etc.

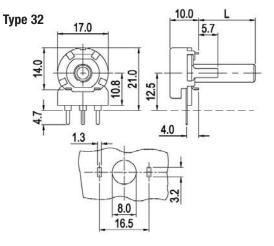
Please call our technical sales team to discuss variations on these 16mm diameter devices.

Resistance Laws

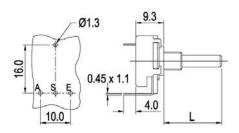


Dimensions

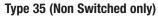


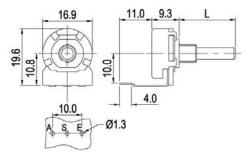


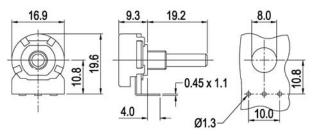
Type 34 (Non Switched only)



Type 36







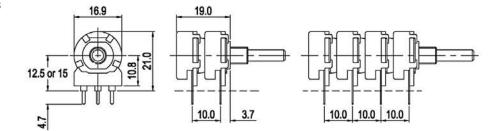
Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

For email, phone or live chat, go to: te.com/help

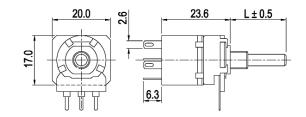


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Multi Ganged Types



Switched Types



How to Order

31	E X		A 1	104	M	W	I	B 2	25	В
Potentiometer Type	Customer	Identity	Resista	nce Value		Bush D	etails	Shaft	Length	
31 - Std Spindle Style			The first t	two digits are		N - Black pla	astic 8mm	FMF	in mm	
32 - No Bush Mtg Bracket	S- Star X - Custom			nt figures of value and the	e	A/F - M10 with P -Diecast M		Standard	Lengths are	
33 - Spindle with Integ Knurled Knob 4mm State Colour	See Dra (provide with or	awing copy	ber of zer	otes the num- ros following.		4mm S - Diecast M 6.35mm	nole 110 x 8mm	15, 20, 29	5 and 50mm	
34 - Rev Mount with mounting pin and PC terminals swept down to board			22K C	(Ohms: 472 Dhms: 223 Dhms: 104		T - Diecast I 4mm U - No	vl7 x 9mm nole			
35 - Rev Mount with PC Terminals swept down to board. No terminal on case						V - Diecast N 6mm W - Black pl 8mm M10 6	nole astic M10			
36 - Forward mount with PC pins swept forward to parallel to shaft										
37 - Dual gang style sin- gle shaft same value / tol on each section										
38 - Single Spindle Pot with centre detent										
Termina	tion Style	Resis	tor Law	Resistan	nce	Tolerance	Shaft	t Style	Switcl	n Details
E - St	d Eyelet		1					ain 6mm		ST - Demko
	12.5mm MH	A -	Linear	к	- 1	0%		tted 6mm		4A/250V AC ST - Evelet
e e e	PC 15mm MH ra long for	В	- Log		1 - 2	0%		tted 6mm m A/F)		nination
rear	PC Mtg end forward	C - I	nv. Log	101	1 - 2	078	D - Flat	tted 6mm t 4mm A/F		- Changeover witch
	t 90°							ain 4mm		T - PC Push
								35mm flat - al angle	S	witch
							G - Flat	tted 4mm		
							H - Plai	n 6.35mm		
								ed 6.35mm nm A/F)		
TE Connectivity, TE connectiv	rity (logo) and TE (le	ogo) are trade	marks.				(····· ,		

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