

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)					



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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



Type 31 Series

Multi Ganged Types



Switched Types



How to Order

31	E X	[A 1	04	М	W	1	В	25	;	В
Potentiometer Type	Custome	dentity	Resista	nce Value		Bush I	Details	Sh	aft L	.ength	
31 - Std Spindle Style			The first t	wo digits are		N - Black p	astic 8mm		FMF ir	n mm	
32 - No Bush Mtg Bracket	S- Sta X - Custom			nt figures of value and the	e	A/F - M10 wi P -Diecast		Stan	dard Le	engths are	
33 - Spindle with Integ Knurled Knob 4mm State Colour	See Dr (provide with o	е сору	ber of zer	tes the num- tos following.	_	4mm S - Diecast I 6.35mr	hole V10 x 8mm	15, 2	0, 25 a	and 50mm	
34 - Rev Mount with mounting pin and PC terminals swept down to board			22K O	COhms: 472 hms: 223 Dhms: 104		T - Diecast 4mm U - No	hole				
35 - Rev Mount with PC Terminals swept down to board. No terminal on case						V - Diecast I 6mm W - Black p 8mm M10	hole Iastic 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	ation Style	Resis	tor Law	Resistan	nce	Tolerance	Shaf	t Style		Switcl	n Details
E - S	td Eyelet	•	Linear					ain 6mm			ST - Demko
	2 12.5mm MH			к	- 1	0%		tted 6mm tted 6mm			4A/250V AC ST - Evelet
°	PC 15mm MH ra long for	В	- Log	м	1 - 2	0%		m A/F)			nination
rear	PC Mtg end forward	C - I	nv. Log					tted 6mm t 4mm A/I			 Changeover witch
a	t 90°						E - Pla	ain 4mm			T - PC Push witch
							F - Full 6 speci	.35mm fla al angle	t -		WIICH
							G - Fla	tted 4mm			
							H - Plai	n 6.35mm	n 🛛		
								ed 6.35mr nm A/F)	n		
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