

Conductive Plastic - General Purpose



- $\pm 0.7\%$ Standard Linearity
- 40 Million Cycles Life Span
- Optional Shaft Spring Return

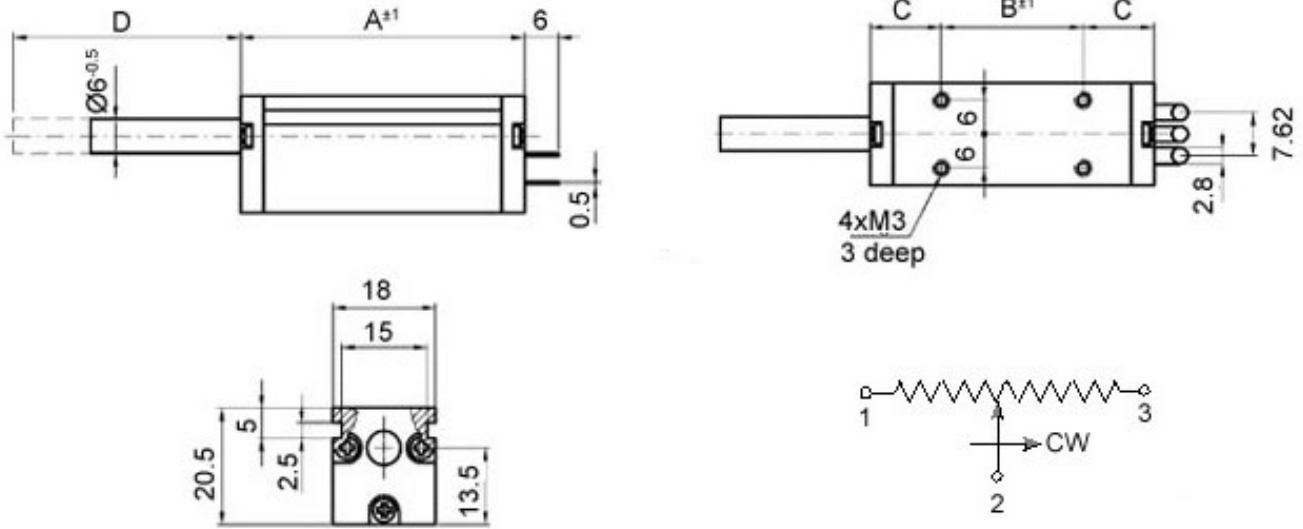
Precision, long life conductive plastic element. Durable aluminum housing. Stroke lengths from 15 to 100mm's. Optional shaft spring return acts to maintain shaft extended. High precision.

Electrical Specifications	CLP21-15	CLP21-30	CLP21-50	CLP21-100
Electrical Stroke Lengths (mm)	15	30	50	100
Resistance Values	500, 1k, 2k, 5k, 10k (ohms)		1k, 2k, 5k, 10k, 20k (ohms)	
Resistance Tolerance	$\pm 10\%$			
Linearity Tolerance (standard)	$\pm 0.7\%$		$\pm 0.50\%$	
Linearity Tolerance (optional)	$\pm 0.5\%$		$\pm 0.25\%$	$\pm 0.20\%$
Resolution	Essentially infinite (<0.01mm)			
Output Smoothness	<0.1% against input voltage			
Power @ 40°	0.3W	0.6W	0.75W	1.25W
Temperature Coefficient	400 ppm/K			
Contact Resistance Variation	<2%			
Insulation Resistance	>1,000 Mohm @ 500 VDC			
Dielectric Strength	1 minute @ 500 VAC			
Maximum Wiper Current	1mA			
Recommended Wiper Current	<1 μ A			
Mechanical Specifications				
Mechanical Stroke (mm)	15 \pm 2	30 \pm 2	50 \pm 2	100 \pm 2
Maximum Operating Friction	0.4 (N)			
Stopper Strength	90 (N)			
Weight	60 grams	70 grams	100 grams	140 grams
Life Expectancy - Shaft Cycles	40 million (20 million with shaft spring return option)			
Displacement Speed	5 m/s			
Vibration	15 g/10Hz to 2,000 Hz			
Shock	50 g/11ms			
Environmental Specifications				
Operating Temperature	-30°C to +105°C			
IP Protection Grade	IP45 (IP54 optional)			
Standards	MIL-R-12934			
Materials				
Housing	Aluminum, brushed			
Shaft	Stainless steel			
Terminals	Gold plated (wire leads optional)			

Dimension Table (mm)

Dimension	CLP21-15	CLP21-30	CLP21-50	CLP21-100
A	50	65	85	135
B	25	40	50	100
C	12.5	12.5	17.5	17.5
D	40	55	75	125

Dimensions (mm)



Options

- Shaft spring return (friction 5N)
- Special shaft machining
- Lead wires
- Incremental stroke lengths
- Non standard resistance values
- IP54 sealing

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