

Conductive Plastic**CLP13-25****CLP13-100**

- **High Precision**
- **40 Million Cycles Life Span**
- **Optional Shaft Spring Return**

Precision, long life conductive plastic element. Durable aluminum housing. Stroke lengths from 13 to 100mm's. Optional shaft spring return acts to maintain shaft extended. High precision.

Electrical Specifications	CLP13-13	CLP13-25	CLP13-50	CLP13-100
Electrical Stroke Lengths (mm)	12.7	25.4	50.8	101.6
Resistance Values	500, 1k, 2k, 5k, 10k (ohms)		1k, 2k, 5k, 10k, 20k (ohms)	
Resistance Tolerance	±10%			
Linearity Tolerance (standard)	±1%	±0.7%	±0.5%	±0.3%
Linearity Tolerance (optional)	±0.5%	±0.3%	±0.1%	
Resolution	Essentially infinite (<0.01mm)			
Output Smoothness	<0.1% against input voltage			
Power @ 40°	0.2W	0.4W	0.7W	1.2W
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 <1µA			
Mechanical Specifications				
Mechanical Stroke (mm)	12.7±3	25.4±3	50.8±3	101.6±3
Operating Friction (w/out spring)	0.4 N max.			
Operating Friction (w/spring)	3.5 N	5 N		
Stopper Strength	20 (N)			
Weight	10 grams	15 grams	25 grams	35 grams
Life Expectancy - Shaft Cycles	40 million (20 million with shaft spring return option)			
Displacement Speed	2 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, black			
Shaft	Stainless steel			
Terminals	Turret, gold plated (wire leads optional)			

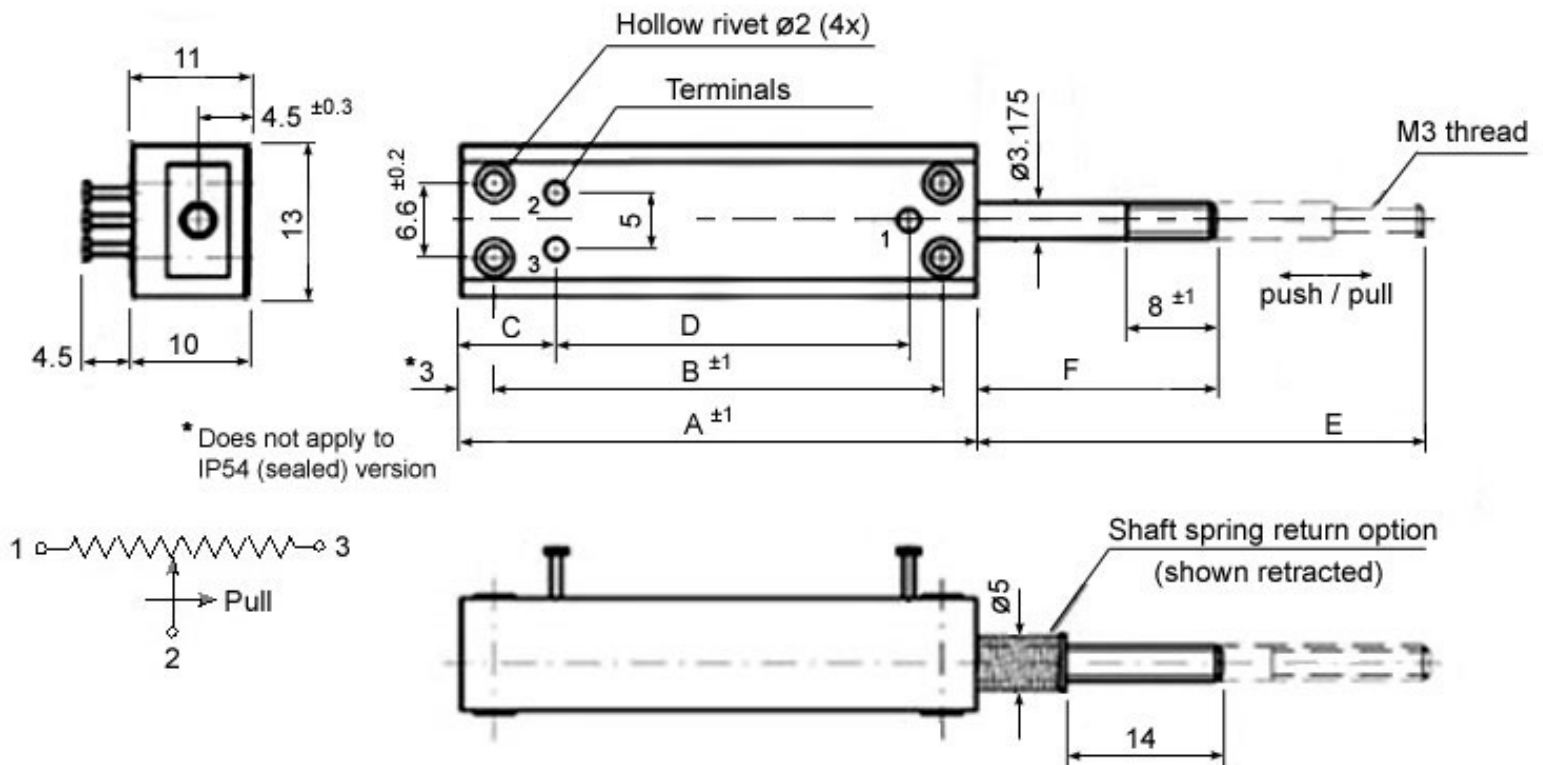
Dimension Table (mm)

Dimension	CLP13-13	CLP13-25	CLP13-50	CLP13-100
A	38	51	76	127
A (IP54 version)	48	61	86	137
B	32	45	70	121
C	8.5	8.5	8.5	8.5
D	23.5	36.5	61.5	112.5
E	31.7±3	44.4±3	69.8±3	120.6±3
F	19±1	19±1	19±1	19±1

with Shaft Spring Return (CLPR 13)

E	42.7±3	60.4±3	90.8±3	151.6±3
F	30	35	40	50

Dimensions (mm)



Options

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



CLPR13 100 (external shaft spring return)

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