

Linear Potentiometer

Miniature • Extended Temperature Range

Ranges: 0-.5 to 0-6 inches [0-12,5 to 0-150 mm]

1.25K – 10K ohms • IP67

MLP

Specification Summary:

GENERAL

Full Stroke Ranges 0-0.5 to 0-6 in. (0-12.5 to 0-150 mm)
 Output Signal..... voltage divider (potentiometer)
 Linearity..... ± 0.5 to 1 % full stroke, *see ordering information*
 Repeatability 0.01 mm
 Resolution..... essentially infinite
 Life Expectancy..... > 25 million cycles
 Operating Speed 400 inches (10 M) per second max.
 Enclosure Material..... aluminum
 Sensor..... conductive plastic linear potentiometer
 Weight 1.6 oz. (46 g) max., *see ordering information*

ELECTRICAL

Input Resistance 1.25K to 10K ohms ($\pm 20\%$), *see ordering information*
 Recommended Maximum Input Voltage 42 VDC
 Recommended Operating Wiper Current < 10 μ A
 Electrical Cable 24 AWG Raychem 55M wire with VITON sleeve
 Electrical Cable Length 19 inches (500mm)

ENVIRONMENTAL

Enclosure Design IP67
 Operating Temperature, *Continuous* -22° to 300°F (-30° to 150°C)
 Operating Temperature, *Short Term* 350°F (175°C)
 Vibration up to 10 G's to 2000 Hz maximum

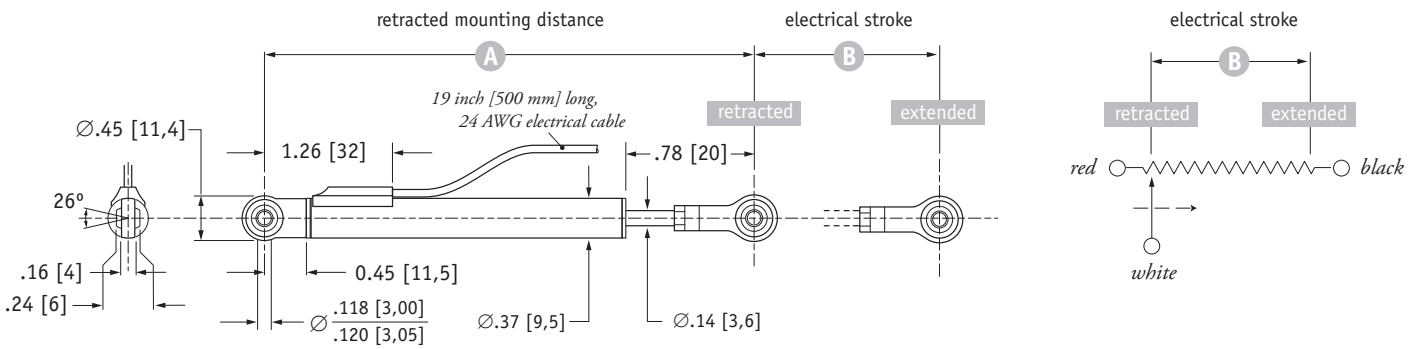


Celeco's miniature MLP series linear potentiometers offer unrivaled performance in an amazingly small size. Though small, the MLP is environmentally robust (IP67), operates over a broad temperature range (-22° to 300°F) and is long lasting (>25 million cycles).

These features make our miniature MLP linear potentiometer the perfect solution for many applications including industrial, medical, automotive and motion control.

Ordering Information:

Item Number:	MLP-12	MLP-25	MLP-50	MLP-75	MLP-100	MLP-125	MLP-150
measurement range, in. [mm]:	0.5 [12.5]	1 [25]	2 [50]	3 [75]	4 [100]	5 [125]	6 [150]
resistance, ohms ($\pm 20\%$):	1.25K	2.5K	5K	7.5K	10K	10K	10K
linearity, %:	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
weight, oz. [grams]:	.8 [24]	.9 [26]	1 [29]	1.2 [33]	1.3 [37]	1.5 [43]	1.6 [46]



Measurement Range	0.5 12.5	1 25	2 50	3 75	4 100	5 125	6 150	in mm
A	3.3 82.5	3.7 95	4.7 120	5.7 145	7.0 178	8.0 203	9.0 228	± 0.08 in adjustment ± 2 mm adjustment
B	0.49 12.5	0.98 25.0	1.97 50.0	2.95 75.0	3.94 100.0	4.92 125.0	5.91 150.0	in mm

All Dimensions are in INCHES [MM] • Tolerances are 0.03 in. [0.5 mm] unless otherwise noted

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