

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 Speed400 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 Voltage42 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



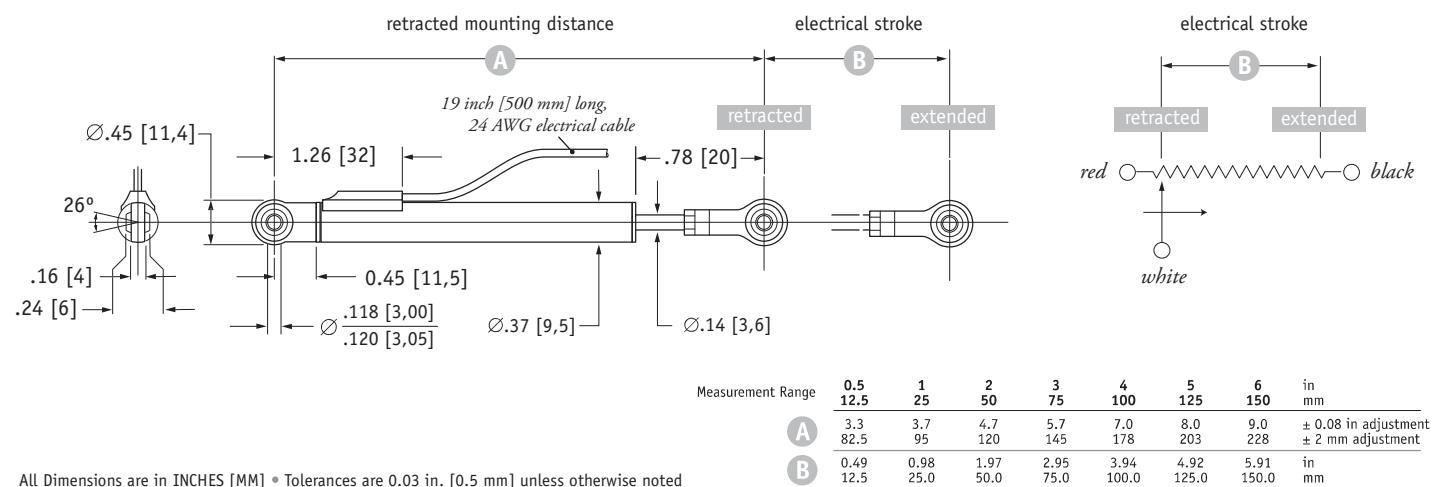
Celesco's miniature MLP series linear potentiometers offer unrivaled performance in an amazingly small size. Though small, the MLP is environmentally robust (IP67), operates over a broad temperature range (-22° to 300°F) and is long lasting (>25 million cycles).

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]



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

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