# MLP

## **Miniature Linear Potentiometer**

Absolute Linear Position to 6 inches (150 mm) 1.25K - 10K ohms • High Cycle Applications **Industrial Automation, Test and Robotics Applications IP67 Protection • Extended Temperature Range** 

#### **GENERAL**

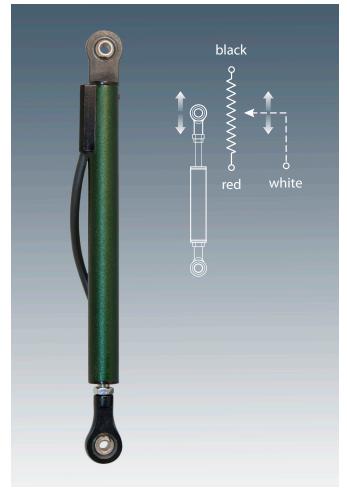
Full Stroke Ranges	0-0.5 to 0-6 in. (0-12.5 to 0-150 mm)
Output Signal	voltage divider (potentiometer)
Linearity	see ordering information
Repeatability	0.01 mm
Resolution	essentially infinite
Life Expectancy	> 25 million cycles
Operating Speed	400 inches (10 M) per second max.
Enclosure Material	aluminum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

#### **ELECTRICAL**

Input Resistance	see ordering information		
Recommended Maximu	42 VDC		
Recommended Operatir	< 10μΑ		
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 to 2000 Hz maximum		



Our 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:**

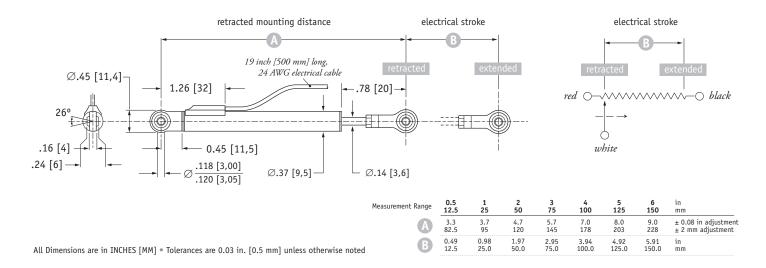
<b>Item Number:</b>	MLP-12	MLP-25	MLP-50	MLP-75	MLP-100	MLP-125	MLP-150
measurement range, in. [mm]:	0.5 [12.5]	1 [25]	2 [50]	3 [75]	4 [100]	5 [125]	6 [150]
resistance, ohms (±20%):	1.25K	2.5K	5K	7.5K	10K	10K	10K
linearity, %:	± 1%	± 1%	± 1%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
weight, oz. [grams]:	.8 [24]	.9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







## Outline Drawing





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