

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.

## 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

<b>Full Stroke Ranges</b>	0-0.5 to 0-6 in. (0-12.5 to 0-150 mm)
<b>Output Signal</b>	voltage divider (potentiometer)
<b>Linearity</b>	.5% to 1%, see ordering information
<b>Repeatability</b>	0.01 mm
<b>Resolution</b>	essentially infinite
<b>Life Expectancy</b>	> 25 million cycles
<b>Operating Speed</b>	400 inches (10 M) per second max.
<b>Enclosure Material</b>	aluminum
<b>Sensor</b>	conductive plastic linear potentiometer
<b>Weight</b>	1.6 oz. (46 g) max., see ordering information

#### Electrical

<b>Input Resistance</b>	see ordering information
<b>Recommended Maximum Input Voltage</b>	42 VDC
<b>Recommended Operating Wiper Current</b>	< 10μA
<b>Electrical Cable</b>	24 AWG Raychem 55M wire with VITON sleeve
<b>Electrical Cable Length</b>	19 inches (500mm)

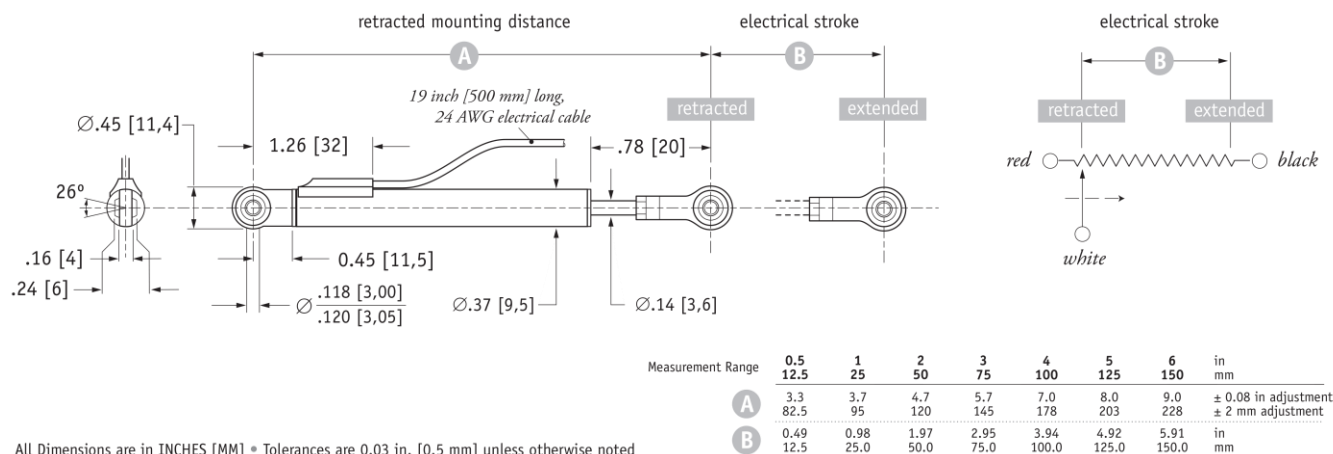
#### Environmental

<b>Enclosure Design</b>	IP67
<b>Operating Temperature , Continuous</b>	-22° to 300°F (-30° to 150°C)
<b>Operating Temperature, Short Term</b>	350°F (175°C)
<b>Vibration</b>	up to 10 g to 2000 Hz maximum

## 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]

## Outline Drawing



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