

# LMTIS Series

## Linear Motion Potentiometer

### With Shaft Spring



- Internal shaft spring
- 10mm, 14mm & 25mm measuring
- Rugged metal housing
- Excellent repeatability
- Long operating life



#### Electrical Specifications\*

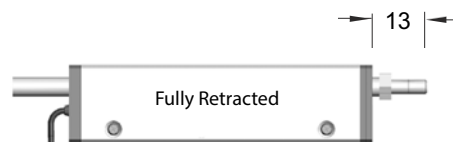
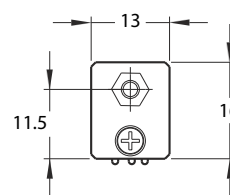
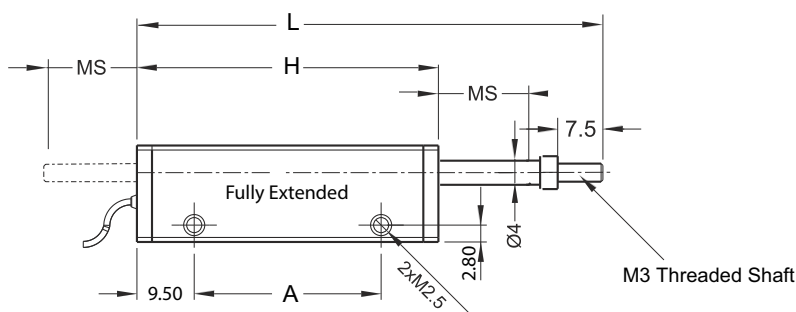
Linearity	±0.5%
Resolution	Infinite
Resistance	2KΩ
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1μA
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature coefficient	400 ppm/°C
Insulation resistance	>100MΩ @ 500VDC
Dielectric Strength	<100μA @ 500V~, 50Hz, 2s

#### Mechanical Specifications\*

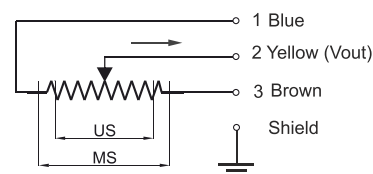
Measurement stroke	10 - 25mm (see table below)
Repeatability	<0.01mm
Electrical connections	Cable 0.15m
Displacement speed	<5 m/s
Mechanical life	50 million cycles
Case dimensions	13mm x 16mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø4mm
Mechanical fixing	M2.5 threaded screw holes
IP degree	IP54
Operating temperature	-20°C to +80°C
Storage temperature	-30°C to +90°C
Vibration	5~2000Hz, Amax = 0.75mm, amax = 20G
Shock	50 G, 6ms

\* Customers should test and verify part performance in any given application. Specifications subject to change without notice.

#### Dimensions (mm)



LMT (mm)	10	14	25
US (Useful Stroke)	10	14	25
MS (Mechanical Stroke)	12	15	25.5
A (Mounting holes)	26	31	41
H (Housing Length)	45	50	60
L (Total Length)	70	78	98.5



# LMT Series Linear Motion Potentiometer



## Ordering Code Guide

Model	Measuring stroke	Linearity	Resistance value	Connector / Cable
LMTIS	10	D	2K	OM15
	10 mm 14 mm 25 mm	+/- 0.5%	2KΩ	OM15: 150mm (6")

Examples:

LMTIS 10 D 2K OM15  
LMTIS 14 D 2K OM15  
LMTIS 25 D 2K OM15

### Special Specifications Available

Special stroke lengths, custom cable lengths, shaft modifications.

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