

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*

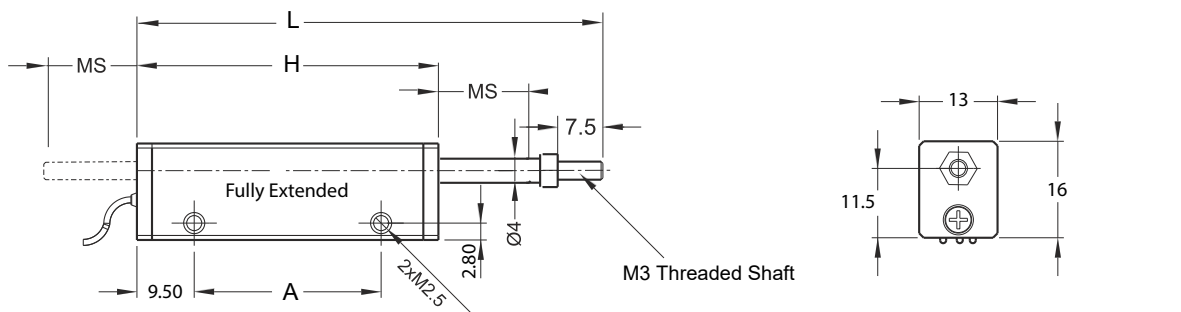
Linearity	±0.5%
Resolution	Infinite
Resistance	2KΩ
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1μA
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature coefficient	400 ppm/°C
Insulation resistance	>100MΩ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

Mechanical Specifications*

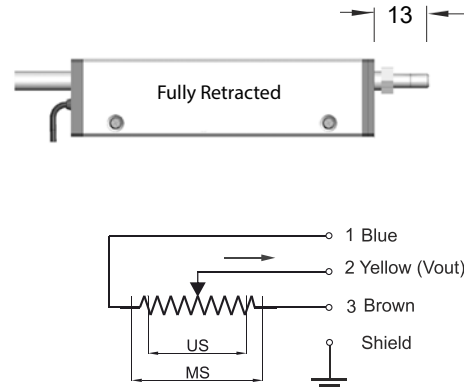
Measurement stroke	10 - 25mm (see table below)
Repeatability	<0.01mm
Electrical connections	Cable 0.15m
Displacement speed	<5 m/s
Mechanical life	50 million cycles
Case dimensions	13mm x 16mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø4mm
Mechanical fixing	M2.5 threaded 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



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Ordering Code Guide

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

Examples:

LMTIS 10 A 2K OM15

LMTIS 14 A 2K OM15

LMTIS 25 A 2K OM15

Special Specifications Available

Special stroke lengths, custom cable lengths, shaft modifications.

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