

LPC Series

Linear Motion Potentiometer



- Measuring range 50 - 800mm
- Long mechanical life
- Excellent repeatability <0.01mm
- Ø 35 mm metal housing
- Ø 10 mm stainless steel shaft
- Rod end bearings
- Infinite resolution



Electrical Specifications*

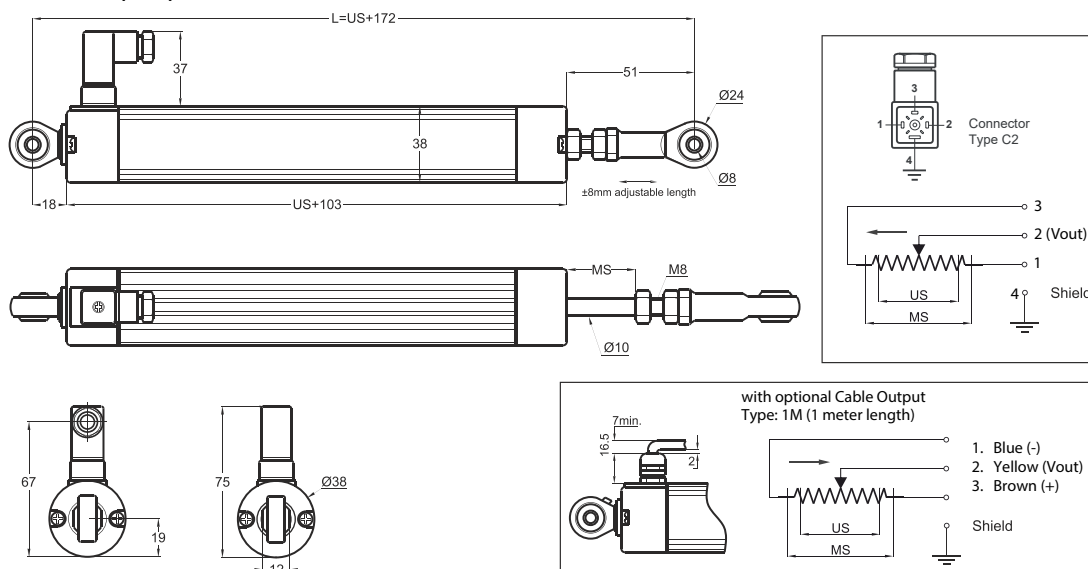
Linearity	±0.5% (<75mm), ±0.2% (75-130mm) ±0.1% (130-200mm), ±0.05% (>200mm)
Resolution	Infinite
Resistance	5KΩ (50-600 mm) 10KΩ (650-800 mm)
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1 µA
Max applied voltage	28 VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature coefficient	400 ppm/°C
Insulation resistance	>100MΩ @ 500VDC
Dielectric Strength	<100µA @ 500V~, 50Hz, 2s

Mechanical Specifications*

Measurement stroke	50 - 800 mm (see table below)
Repeatability	<0.01 mm
Electrical connections	4 pin connector
Displacement speed	<5 m/s
Mechanical life	100 million movements
Case dimensions	Ø38 mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø10 mm
Mechanical fixing	Ball joints both ends
IP degree	IP65
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)



LPC (mm)	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	800
US (Useful stroke)	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	800
MS (Mechanical stroke)	54	79	104	129	134	154	179	204	229	254	279	304	329	354	379	404	454	504	554	604	654	704	804
L (Total Length)	222	247	272	297	302	322	347	372	397	422	447	472	497	522	547	572	622	672	722	772	822	872	972

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Ordering Code Guide

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
LPC	500	D	5K	C2
LPC	50 - 800 mm	A : $\pm 0.5\%$ (<75 mm) B : $\pm 0.2\%$ (75-125 mm) C : $\pm 0.1\%$ (130-200 mm) D : $\pm 0.05\%$ (>200 mm)	5K: (50 - 600mm) 10K: (>600mm)	C2 : 4 pin connector 1M : 1 meter cable 2M5 : 2.5 meter cable

Examples:
LPC 50 A 5K C2
LPC 100 B 5K 1M
LPC 150 C 5K 1M5
LPC 750 D 10K C2