

ELPC Series Linear Motion Potentiometer

- Internal electronic circuit
- Measuring range 50 - 750mm
- Output 4-20mA, 0-20mA or 0-10V
- Very low temperature drift
- Very stable output signal
- Excellent repeatability <0.01mm



Electrical Specifications*

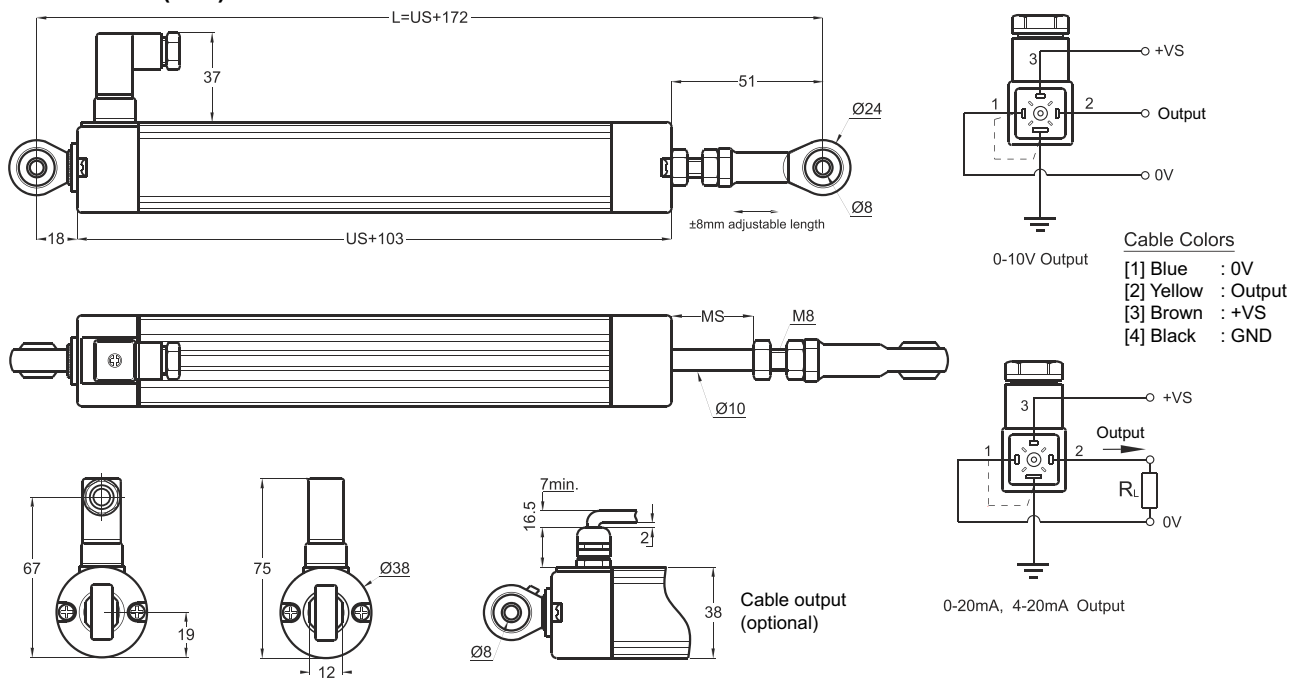
Linearity	±0.5% (<75mm), ±0.2% (75-130mm) ±0.1% (130-200mm), ±0.05% (>200mm)
Resolution	Infinite
Output	4-20mA or 0-20mA (current output) 0-10VDC (voltage output)
Load resistance	100-500Ω (current output) 10KΩ (voltage output)
Update rate	<1ms
Supply voltage	15-30VDC
Power consumption	27.5mA (current output) 7.5mA (voltage output)
Temperature coefficient	<15 ppm/°C
Insulation resistance	>100MΩ @ 500VDC

Mechanical Specifications*

Measurement stroke	50 - 750mm (see table below)
Repeatability	<0.01mm
Electrical connections	4 pin connector
Displacement speed	<5 m/s
Mechanical life	75 million cycles
Case dimensions	Ø38mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø10mm
Mechanical fixing	Ball joints both ends
IP rating	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	750
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	750
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	755
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	922

Special Specifications Available

Special stroke lengths, special cable lengths, shaft modifications.