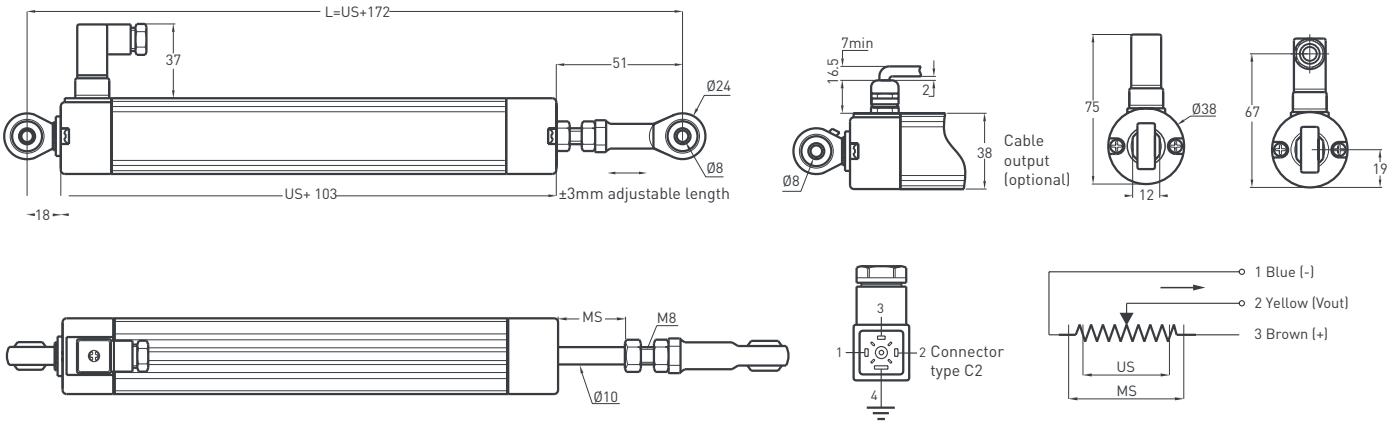
LPC

Linear Potentiometer

- Measuring range 50 - 800 mm
- ±%0.05 linearity
- 100 million movements life
- <0.01 mm repeatability
- Infinite resolution
- 5 kOhm : 50-600 mm
  10 kOhm : 650-800 mm

Technical Specifications	
Measurement stroke	50 - 800 mm
Linearity	±%0.05 (>200 mm), ±%0.1 (130-200 mm) ±%0.2 (75-129 mm), ±%0.5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	5 kOhm : 50 - 600 mm 10 kOhm : 650 - 800 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended wiper current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector (standard), cable (optional)
Displacement speed	< 1,5 m/s
Vibration	EN 60068-2-6 , 5-200 Hz 200 m/s² (20g) ,2h 30 min. each axis (x,y,z)
Shock	EN 60068-2-2:2007 500 m/s² (50g), 11ms. (x,y,z axis)
Mechanical life	100 million movement
Case dimensions	Ø38 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø10 mm
Mechanical fixing	Ball joints on the both sides
Protection level	IP 65 - EN 60529
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



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 (Usefull 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 Lenght)	222	247	272	297	302	322	347	372	397	422	447	472	497	522	547	572	622	672	722	772	822	872	972

Ordering Procedure

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
LPC	500	D	5K	C2
LPC	50 - 800 mm	A : ±%0.5 (<75 mm), B : ±%0.2 (75-129 mm), C : ±%0.1 (130-200 mm), D : ±%0.05 (>200 mm)	5K : 5 kOhm 10K : 10 kOhm	C2 : 4 pin connector 1M : 1 meter cable 2M5 : 2,5 meter cable

Please note: The specifications and information in this datasheet may not cover all special demands arising from specific applications. Therefore, they do not constitute a comprehensive description of the product properties. OPKON accepts no responsibility for damages resulting from the improper application of our products. The user is responsible for ensuring that the products used are suitable for their own application.