

SLPT

Linear Potentiometer Slim Body Series



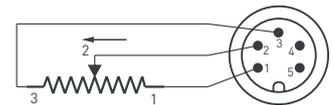
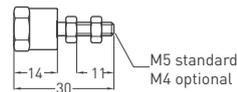
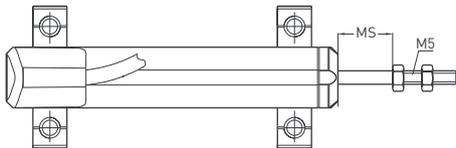
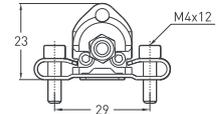
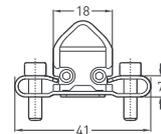
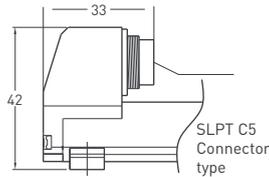
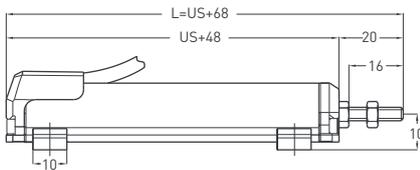
- Measuring range 10 - 400
- <0.01 mm repeatability
- Infinite resolution
- 2 kOhm: 10 - 50 mm
5 kOhm: 75 - 400 mm



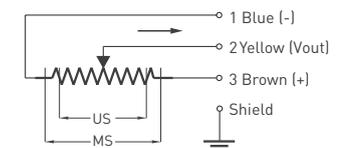
Technical Specifications

Measurement stroke	10 - 400 mm
Linearity	±%0.5 (≤75 mm), ±%0.2 (100-125 mm), ±%0.1(130-225 mm), ±%0.05 (≥250 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm : 10 - 50 mm 5 kOhm : 75- 400 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended wiper current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5 m/s
Vibration	EN 60068-2-6:2013 5-2000 Hz 200 m/s ² (20g) 2h 30min each axis (x,y,z)
Shock	EN 60068-2-2:2007 500 m/s ² (50g) 11ms. (x,y,z axis)
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Variable brackets
Protection level	IP 65 - EN 60529
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



SLPT (mm)	10	25	50	75	100	125	150	175	200	250	300	350	400
US (Usefull stroke)	10	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechanical stroke)	13	28	53	78	103	128	153	178	203	253	303	353	403
L (Total Length)	79	94	119	144	169	194	219	244	269	319	369	419	469



Ordering Procedure

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
SLPT	175	D	5K	1M
SLPT	10 - 400 mm	A: ±%0.5 (≤75 mm), B: ±%0.2 (100 - 125 mm), C: ±%0.1 (130 - 225 mm), D: ±%0.05 (≥250 mm)	2K : 2 kOhm (10-50 mm) 5K : 5 kOhm (75-400 mm)	1M: 1 meter cable (standard) 1M5: 1,5 meter cable 2M: 2 meter cable CN5B: M16, 5 pin connector

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.