

SLPT Series

Linear Motion Potentiometer

- Measuring range 10 - 400mm
- Long mechanical life
- Excellent repeatability <0.01mm
- Infinite resolution



cable type



connector type

Electrical Specifications*

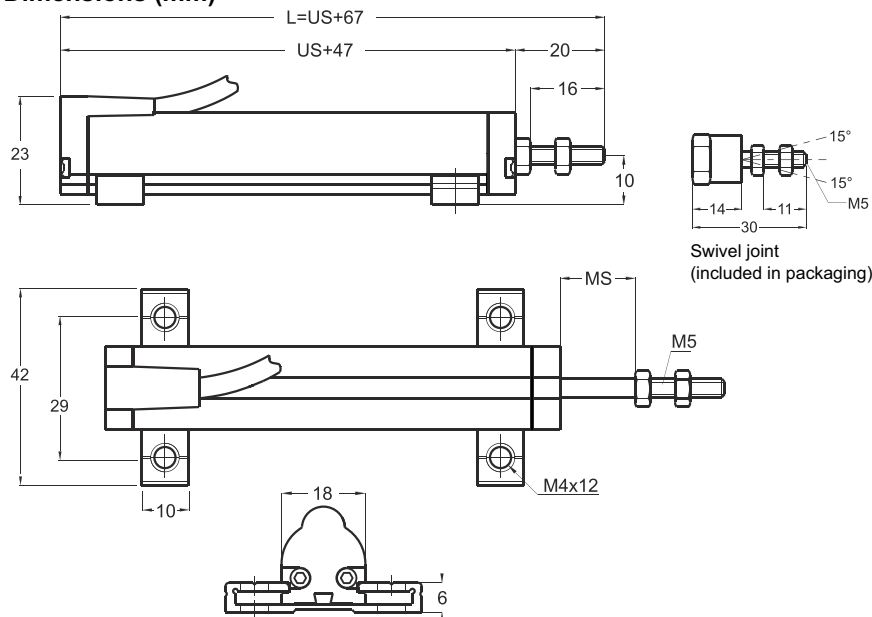
Linearity	±0.5% (<75mm), ±0.2% (75-130mm) ±0.1% (130-200mm), ±0.05% (>200mm)
Resolution	Infinite
Resistance	5KΩ or 10KΩ
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1μA
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2%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

Mechanical Specifications*

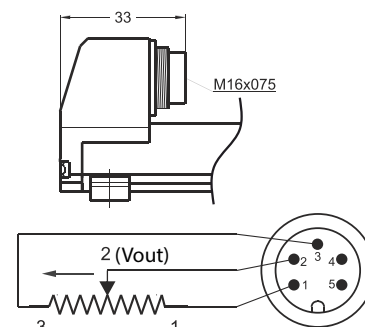
Measurement stroke	50 - 400mm (see table below)
Repeatability	<0.01mm
Electrical connections	Cable 1m or Connector
Displacement speed	<5 m/s
Mechanical life	75 million cycles
Case dimensions	Ø18mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø5mm
Mechanical fixing	Variable brackets (included)
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.

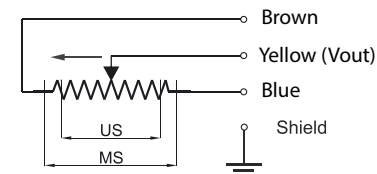
Dimensions (mm)



Connector Type



Cable Type



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)	77	92	117	142	167	192	217	242	267	317	367	417	467

Special Specifications Available

Improved linearity, special stroke lengths, custom cable lengths, shaft modifications, other resistance values.