

SLPS Series Linear Motion Potentiometer

- Measuring range 10 - 100mm
- Long mechanical life
- Excellent repeatability <0.01mm
- Infinite resolution
- Spring return device



cable type



connector type

Electrical Specifications*

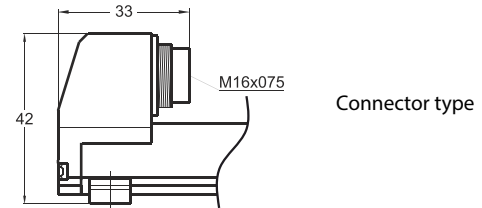
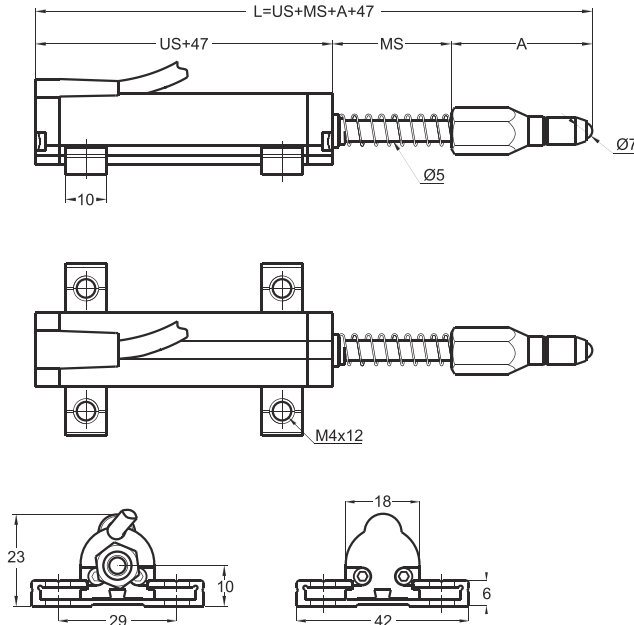
Linearity	±0.5% (<75mm), ±0.2% (75-100mm)
Resolution	Infinite
Resistance	2KΩ (10-50mm), 5KΩ (75-100mm)
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1μA
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature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

Mechanical Specifications*

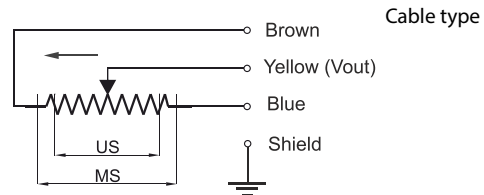
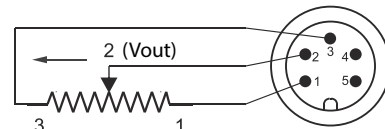
Measurement stroke	10 - 100mm (see table below)
Repeatability	<0.01mm
Electrical connections	Cable 1m or Connector
Displacement speed	<5 m/s
Mechanical life	75 million cycles
Case dimensions	Ø18mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø5mm
Mechanical fixing	Variable 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

SLPS(mm)	10	25	50	75	100
US (Usefull Stroke)	10	25	50	75	100
MS (Mechanical Stroke)	13	28	53	78	103
L (Total Length)	105	135	192	242	292

A	
SLPS 10 - 25	35
SLPS 50 - 100	42

Special Specifications Available

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