

# 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\*

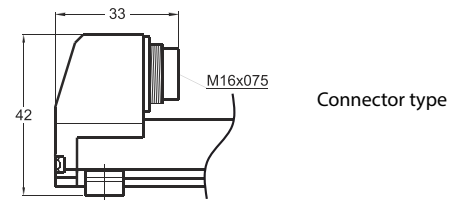
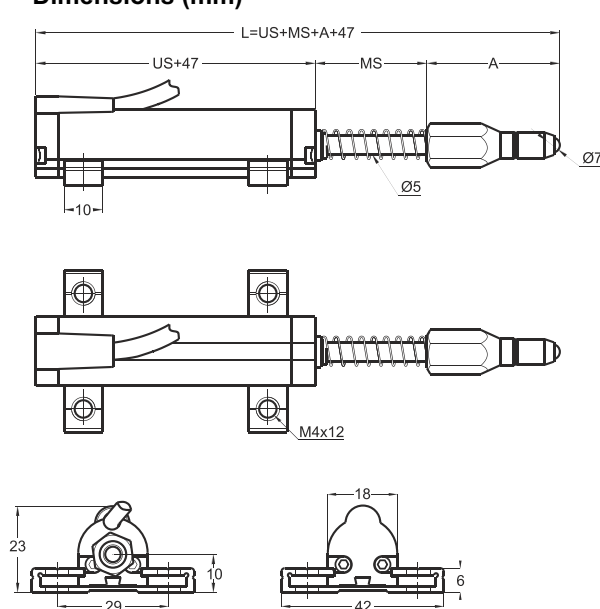
Linearity	±0.5% (<75mm), ±0.2% (75-100mm)
Resolution	Infinite
Resistance	2KΩ (10-50mm), 5KΩ (75-100mm)
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1μA
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature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

### Mechanical Specifications\*

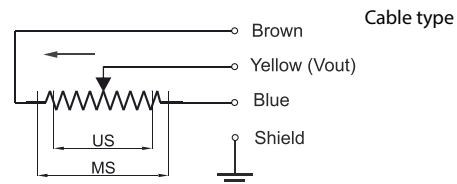
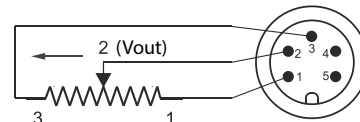
Measurement stroke	10 - 100mm (see table below)
Repeatability	<0.01mm
Electrical connections	Cable 1m or Connector
Displacement speed	<5 m/s
Mechanical life	100 million cycles
Case dimensions	Ø18mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	Ø5mm
Mechanical fixing	Variable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