

SLPKS Series Linear Motion Potentiometer



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



Electrical Specifications*

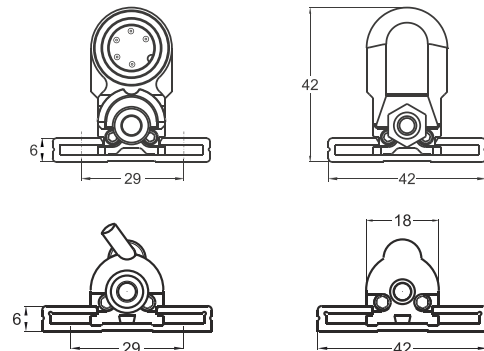
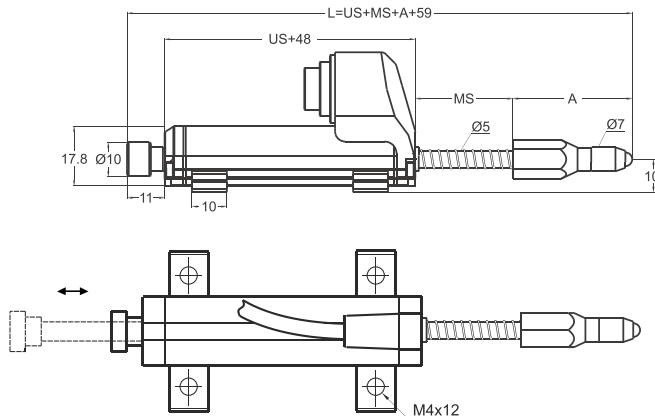
Linearity	$\pm 0.5\%$ (<75mm) $\pm 0.2\%$ (75...100mm)
Resolution	Infinite
Resistance	2K Ω (<75mm) 5K Ω (75...100mm)
Resistance tolerance	$\pm 20\%$
Load resistance	100K Ω min.
Wiper current	<1 μ A
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature coefficient	400 ppm/ $^{\circ}$ C
Insulation resistance	>100M Ω @ 500VDC
Dielectric Strength	<100 μ A @ 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 movements
Case dimensions	$\varnothing 18$ mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Rod diameter	$\varnothing 5$ mm
Mechanical fixing	Variable brackets (included)
IP degree	IP65 - EN 60529
Operating temperature	-20 $^{\circ}$ C to +80 $^{\circ}$ C
Storage temperature	-30 $^{\circ}$ C to +90 $^{\circ}$ C
Vibration	5-2000Hz, Amax = 0.75mm, amax = 20G
Shock	50 G, 6ms

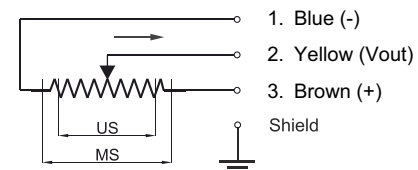
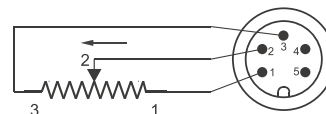
* Customers should test and verify part performance in any given application. Specifications subject to change without notice.

Dimensions (mm)



A	
SLPKS 10	35
SLPKS 25	35
SLPKS 50	42
SLPKS 75	42
SLPKS 100	42

SLPKS(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)	117	147	204	254	304



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Ordering Code Guide

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
SLPKS	100	A	5K	1M
SLPKS	10 - 100 mm	A : $\pm 0.5\%$ (<75 mm) B : $\pm 0.2\%$ (75 - 100 mm)	2K : 2 kOhm (<75 mm) 5K : 5 kOhm (75-100mm)	1M : 1 meter cable (standard) C5 : Connector

Examples:
 SLPKS 50 A 2K C5
 SLPKS 50 A 2K 1M
 SLPKS 100 B 5K C5
 SLPKS 100 B 5K 1M