

SLPIS Series

Linear Motion Potentiometer



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



Electrical Specifications*

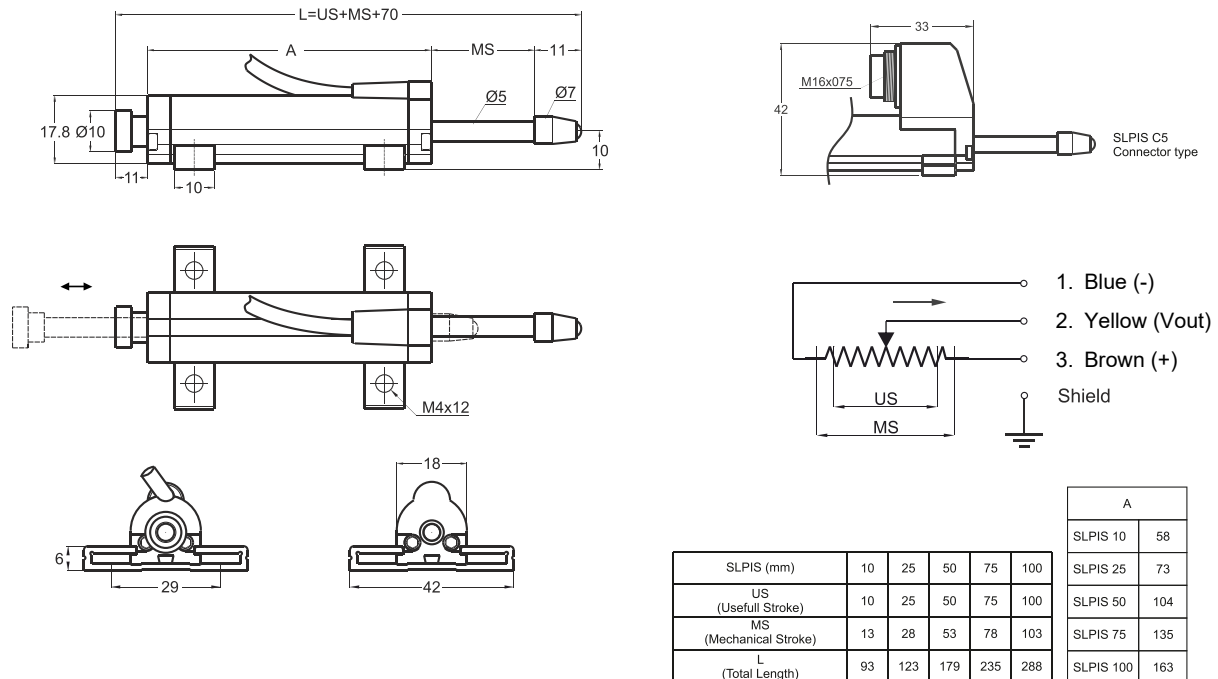
Linearity	$\pm 0.5\%$ (<75mm) $\pm 0.2\%$ (75...100mm)
Resolution	Infinite
Resistance	2K Ω (<75mm) 5K Ω (75...100mm)
Resistance tolerance	$\pm 20\%$
Load resistance	100K Ω min.
Wiper current	<1 μ A
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 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 cycles
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
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)



Special Specifications Available

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

P3 America, Inc.
San Diego, CA

858-277-1420 ph.
858-225-0439 fax

www.p3america.com
sales@p3america.com