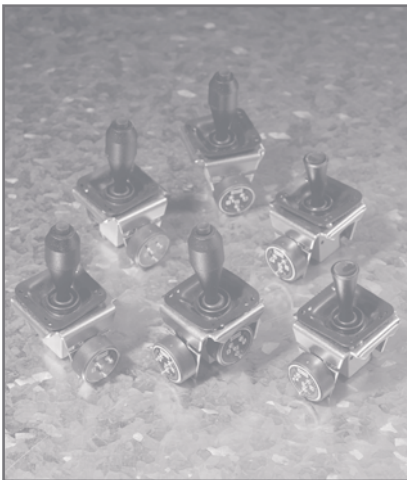




P-Series Potentiometer Joysticks



Built to exceptional standards using high quality components for precise performance and extended reliability.

The P-Series potentiometer joysticks are high reliability controllers offering precise, smooth control for a wide variety of electronic equipment. The compact, low profile assembly is designed for rugged use and long life. For added versatility, the P-Series can be customised to suit the precise specifications of an industry application.

Options include plain, push-button or third axis knobs, limiters and narrow or wide angle potentiometers. Built-in electronic amplification and buffering are also optional and can further enhance simple interfacing. Other key features include smooth centreing control and internal or external gaiters.

For more information on installation and ordering, please visit www.pmlflightlink.com.

BENEFITS

- Compact
- Precise
- Strong and durable
- Long life
- Single, dual and third axis versions
- Push-button knob option
- Spring or friction modes
- Amplified output option
- Easy to interface
- Wide supply voltage range
- Microswitch option
- Variety of levers and knobs
- Internal or external gaiters
- Entirely passive (except amplified versions)
- IP65 rating (above panel)

Note: As the performance in service of any potentiometer is outside the scope of PML, warranties in respect of potentiometer life are limited to that provided by the potentiometer manufacturer.

For further information ►

TYPICAL APPLICATIONS

- Remote control
- CCTV
- Mobility
- Scientific instrumentation



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SPECIFICATIONS

SPECIFICATION	
<i>Track Value / tol</i>	10k, 5k - both +/- 20%
<i>Track Angle</i>	300° (Standard) 60° (Optional)
<i>Tapping Point</i>	None (Standard)
<i>Power Rating</i>	Centre (option) on 5k Ohms only (2° wide, voltage type) 1.0 Watt @70°C. De-rate to 0 @ 125° (300° track) 0.2 Watt @70°C. De-rate to 0 @ 125° (55° track)
<i>Insulation Resistance</i>	>1000 Megaohms @ 500Vcc. @ 20°C
<i>Dielectric Strength</i>	1000V RMS @ 50 Hz
<i>Linearity</i>	±2%
<i>Track Material</i>	Plastic film
<i>Output Smoothness</i>	0.1% max
<i>Permissible Load</i>	Higher than 100k Ohms for long life (see note above)
<i>Alignment</i>	±0.5% of track, or as limited by potentiometers
<i>Repeatability</i>	±0.2% of track (when new)

PERFORMANCE CHARACTERISTICS AND DATA

All dimensions in mm. All weights in kg.

MECHANICAL SPECIFICATION		
<i>Types</i>	Sprung to centre (standard) Sprung to end (special order) Friction Ball Detent (wafer switch only)	<i>Mounting Dimensions</i> Hole Size M2.5 mm std. 4/40 UNF optional
<i>Materials</i>	Frame Mild Steel, Zinc-plated Trunnion Anodized HE30 Aluminum Angle Anodized HE30 Aluminum Levers Stainless steel Shaft Stainless Steel Bush Brass Moldings Nylon Gaiters PVC Wire Mechanism PVC insulated	<i>Spring Torque - Torque from centre</i> Weak 0.7 kgcm Standard 1.0 kgcm Heavy 1.7 kgcm
	144/0.12 3rd axis 7/ 0.1	<i>Wiring information (mechanism)</i> Pin 1 Common red (+ve supply) Pin 2 X axis blue Y axis yellow Pin 3 Common black (-ve supply) Centre tap Green (if present)
		<i>Wiring information (3rd Axis knobs)</i> Pin 1 Red (+ve supply) Pin 2 Z axis green Pin 3 Blue (-ve supply) Push Button White/yellow (if present)

