



I-Series Inductive Joysticks



Eliminate the vulnerability of mechanical contacts and ensure consistent performance, greater reliability & long life.

Many applications involve frequent cycling of the controls, whether by hand or under the influence of vibration, causing degradation, unreliability and ultimately complete failure in joysticks with wiping contacts.

I-Series Inductive joysticks overcome these barriers through contactless inductive technology. The result is a smooth and highly responsive operation, for guaranteed performance and reliability under arduous conditions.

Safety features include Dual Decode units, which allows users to check for the correct operation of joysticks or systems. The combination of Dual-Decode & higher RFI protection ensures maximum operational safety, particularly under adverse conditions.

Introduced in 1979, the I-Series was the first inductive design to enter volume production and produced in higher volume than any other. Now many units have been specified for use in industrial and mobile applications throughout the world.

For added versatility, the I-Series can be customised to suit the precise needs of an industry application. For more information on performance and ordering, visit www.pmlflightlink.com.

BENEFITS

- Compact design
- Long Life - greater than 10 million cycles
- Single, dual & third axis versions
- Built in safety features
- EMC protected
- 5V to 15V operation
- Superb proportional control
- Highly responsive
- Smooth centring
- Sealed to IP65
- Levers, limiters and knobs to suit
- Low profile version
- Easy installation

TYPICAL APPLICATIONS

- Remote control
- CCTV
- Mobility
- Scientific instrumentation

For further information ►



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SPECIFICATIONS

ELECTRONIC SPECIFICATION

*Supply Voltage (Vs)	5 V to 15 V max
Signal Swing	Optional - up to a maximum of $\pm 50\%$ Vs
Output Impedance	1.8k Ohms $\pm 1\%$
Preferred Load	10k Ohms to infinity
Centre Tap Impedance	340 Ohms $\pm 1\%$
Signal Ripple	<1% of Output
*Current Drain	15mA typ (Vs = 10V)
*RFI Rejection	>20V/M properly Installed (no external shielding) >40V/M properly Installed (with external shielding)
*ESD Immunity	>10kV properly Installed
*Signal Matching (DD)	<5% of Maximum Swing
*Operating Temperature	-20°C to +55°C
PCB / Components	Surface Mount
*Some parameters depend on precise specifications - please refer to PML FlightLink for details	

MECHANICAL SPECIFICATIONS

Body	Glass-filled Nylon
Bezel	Acetal
Gimbal	Acetal
Gimbal Pins	Hardened Steel
Gaiter (boot)	PVC or Neoprene
Lever	303 Stainless Steel
Lever dia	4.8mm or 6.4mm nominal
Centre plate and screws	Brass
Cone outer	Nylon
Cone sleeve	Brass
Spring	Stainless Steel
Screening Can	Aluminium
Earthing screws	Nickel-plated Brass
Star washers	Zinc-plated Steel
Grommet	PVC
Flex Insulation	PVC
Flex Conductors	14/0.12-Tinned Copper

PERFORMANCE CHARACTERISTICS AND DATA

For more information visit our website www.pmlflightlink.com. Precise figures will be qualified upon receipt of customer's specific application requirements.

All dimensions in mm. All weights in kg.

