

ACTUONIX - LAC DRIVE BOARD

LAC
 Control board

- Designed for Actuonix 'P' actuators
- PC software via USB connection
- RC servo compatible
- 6 to 24V dc actuators



PRODUCT DESCRIPTION

The Linear Actuator Control Board is a stand-alone, closed-loop control board specifically designed for Actuonix P-series micro linear actuators. The LAC simplifies designs by saving the development time, cost and processor overhead associated with direct motor control. As little as 1 digital or analog output is required for position control. Supported input signals include USB, voltage, current, RC servo and PWM. On-board adjustment of speed, sensitivity and stroke limits are available.

This linear actuator controller can be operated as both an interface board or as a stand alone controller with the addition of an external potentiometer and power supply. Each LAC board controls 1 linear actuator and will require an external power supply rated for the actuator.

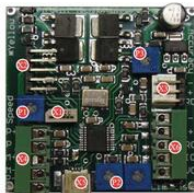
The LAC is compatible with all P-series micro linear actuator on this site. A 6 volt or 12 volt power supply is required for operation.

TECHNICAL DATA

Duty cycle	20 %
IP class	IP00
Temperature operational max	50 °C
Temperature operational min	-10 °C

External Connections Detail

<p>X1 P012 actuator connector 5 pin, 1 mm Pitch IPC connector</p> <p>X2 112-P/116-P/116-P/116-P actuator connector Pin Function: 1 Potentiometer Reference Negative (yellow) 2 Motor Terminal (black) 3 Motor Terminal (red) 4 Potentiometer Feedback (purple) 5 Potentiometer Reference Positive (orange)</p> <p>X3 Radio control receiver connector Pin Function: 1 Ground (black) 2 Power (red) 3 Control (white)</p> <p>X4 Large actuator connector Pin Function: 1 Potentiometer Reference Positive (yellow) 2 Potentiometer Feedback (purple) 3 Motor Terminal (red) 4 Motor Terminal (black) 5 Potentiometer Reference Negative (black) NOTE: If the actuator moves in one and then stops, swap pins 3 and 4 to change the motor direction.</p> <p>X5 Universal Serial Bus (Male Mini-B) Pin Function: 1. NC 2. Data 3. Data 4. NC 5. Ground</p>	<p>X6 Control interface Pin Function: 1 Ground 2 6-24 VDC Power 3 RC / Hobby Servo Input Signal 4 Current sense signal (0-20 mA) 5 Voltage input signal (0-3.3 V) or 1 kHz PWM</p>	<p>F1 Speed Control Sets maximum actuator speed. CW: Faster CCW: Slower</p> <p>F2 Limit Controls Left Potentiometer controls Retract Limit CW: Maximum Stroke Right Potentiometer controls Extend Limit CW: Maximum Stroke F1's sensitivity adjustment CW: Smaller dead band CCW: Larger dead band</p>
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Connector pin numbers from top to bottom or left to right