# DC Linear Actuator L16-50-35-12-P



The Actuonix L16 series of linear actuators are compact DC motors geared to push or pull loads along the stroke of the actuator. This actuator comes with a built-in potentiometer, allowing your application to monitor the actuator's position.

The 3570 linear actuator has a stroke length of 50mm and a 35:1 gearbox. It is able to move at a rate of 32 mm/s and can exert up to 50N of force at lower speeds.

#### Comes packaged with

- Two mounting clamps
- Two mounting brackets
- Two rod end options: a clevis end and a threaded end with nut

#### Connection

In order to connect this actuator to a terminal block, you'll need to cut off the 5-pin connector and strip the wires. For more details, see the "Compatible Products" tab.

#### Warning

This actuator does not have built-in limit switches, so you may damage the motor or gears if you run the actuator beyond its minimum or maximum stroke. We recommend using the actuator's built-in potentiometer in your program to ensure that the motor is shut off whenever the potentiometer voltage gets close to 0V or 5V. Have a look at the "Resources" tab for a link to a project that implements a control loop using the potentiometer value.

### **Product Specifications**

### **Motor Properties**

Motor Type DC Linear Actuator

Stroke Length 50 mm Maximum Speed 32 mm/s

Peak Power Point (@ 16 mm/s) 50 N Peak Efficiency Point (@ 24 mm/s) 24 N

Gear Ratio 35:1 Positional Error Max 300  $?\frac{1}{4}$ m

## **Electrical Properties**

Rated Voltage 12 V DC Potentiometer Impedance 9 k?©

## **Physical Properties**

Gear Train Material Metal
Backdrive Force 31 N
Side Force Max 40 N
Wire Length 350 mm
Weight 56 g
Operating Temperature Min -10 ?°C
Operating Temperature Max 50 ?°C
IP Rating IP54