

DC Linear Actuator L16-140-63-12-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 3575 linear actuator has a stroke length of 140mm and a 63:1 gearbox. It is able to move at a rate of 20 mm/s and can exert up to 75N 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	140 mm
Maximum Speed	20 mm/s
Peak Power Point	(@ 10 mm/s) 75 N
Peak Efficiency Point	(@ 15 mm/s) 38 N
Gear Ratio	63:1
Positional Error Max	500 μ m

Electrical Properties

Rated Voltage	12 V DC
Potentiometer Impedance	25 k Ω

Physical Properties

Gear Train Material	Metal
Backdrive Force	46 N
Side Force Max	20 N
Wire Length	350 mm
Weight	84 g
Operating Temperature Min	-10 $^{\circ}$ C
Operating Temperature Max	50 $^{\circ}$ C
IP Rating	IP54