

## ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-50-210-12-I  
12V, 50mm stroke, up to 80N force with integrated controller



- Up to 80N force
- Up to 25mm/s speed
- From 10mm to 100mm stroke
- 12v dc with potentiometer or limit switches
- 6V RC controller options

### PRODUCT DESCRIPTION

Actuonix Motion Devices unique line of Miniature Linear Actuators enables a new generation of motion-enabled product designs, with capabilities that have never before been combined in a device of this size. These small linear actuators are a superior alternative to designing with awkward gears, motors, servos, and linkages.

Actuonix's L series of micro linear actuators combine the best features of our existing micro actuator families into a highly flexible, configurable, and compact platform with an optional sophisticated on-board microcontroller. The first member of the L series, the L12, is an axial design with a powerful drive-train and a rectangular cross section for increased rigidity. But by far the most attractive feature of this actuator is the broad spectrum of available configurations.

### TECHNICAL DATA

Back drive force	45 N
Duty cycle	20 %
Force max	80 N
IP class	IP54
Nominal speed, no load	6.5 mm/s
Ratio	210:1
Sound level	55 dB
Static load max	80 N
Stroke	50 mm
Supply voltage	12 V DC
Temperature operational max	50 °C
Temperature operational min	-10 °C
Weight	40 g

L12-SS-GG-VV-C

feature	Options
SS: Stroke Length	10, 30, 50, 100
GG: Gear reduction ratio (refer to load curves above)	50, 100, 210 (lower ratios are faster but push less force, and vice versa)
VV: Voltage	6, 12 (DC volts)
C: Controller	S Limit Switches P Potentiometer Feedback I Integrated Controller R RC Servo Integrated Controller



L12-SS-GG-VV-C

feature	Options
SS: Stroke Length	10, 30, 50, 100
GG: Gear reduction ratio (refer to load curves above)	50, 100, 210 (lower ratios are faster but push less force, and vice versa)
VV: Voltage	6, 12 (DC volts)
C: Controller	S Limit Switches P Potentiometer Feedback I Integrated Controller R RC Servo Integrated Controller

