

ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-50-210-12-S

12V, 50mm stroke, up to 80N force with limit switches

- 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

Actunix 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.

Actunix'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 |



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