

## ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-10-100-12-P

12V, 10mm stroke, up to 42N force, with potentiometer

- 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            | 22 N    |
| Duty cycle                  | 20 %    |
| Force max                   | 42 N    |
| IP class                    | IP54    |
| Nominal speed, no load      | 13 mm/s |
| Ratio                       | 100:1   |
| Sound level                 | 55 dB   |
| Static load max             | 42 N    |
| Stroke                      | 10 mm   |
| Supply voltage              | 12 V DC |
| Temperature operational max | 50 °C   |
| Temperature operational min | -10 °C  |
| Weight                      | 28 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<br>(lower ratios are faster but push less force, and vice versa)                               |
| VV: Voltage   | 6, 12<br>(DC volts)   |
| C: Controller   | S Limit Switches<br>P Potentiometer Feedback<br>I Integrated Controller<br>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<br>(lower ratios are faster but push less force, and vice versa)                               |
| VV: Voltage   | 6, 12<br>(DC volts)   |
| C: Controller   | S Limit Switches<br>P Potentiometer Feedback<br>I Integrated Controller<br>R RC Servo Integrated Controller |

