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# ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-100-100-12-P
12V, 100mm 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

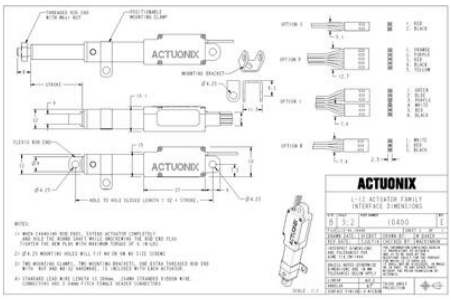
Actuonix Motion Devices unique line of Miniature Linear Actuators enables a new generation of motion-enabled product designs, with capabilities that have never before been combined in a device of this size. These small linear actuators are a superior alternative to designing with awkward gears, motors, 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** | 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** | 100 mm |
| **Supply voltage** | 12 V DC |
| **Temperature operational max** | 50 °C |
| **Temperature operational min** | -10 °C |
| **Weight** | 56 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<br>**P** Potentiometer Feedback<br>**I** Integrated Controller<br>**R** RC Servo Integrated Controller |




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