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ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-50-100-12-S 12V, 50mm stroke, up to 42N force with limit switches



- 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,

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.

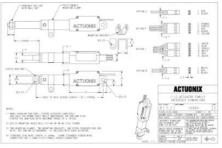
TECHNICAL DATA

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 50 mm Supply voltage 12 V DC Temperature operational max 50 °C Temperature operational min -10 °C Weight 40 g		
Force max IP class IP54 Nominal speed, no load 13 mm/s Ratio 100:1 Sound level 55 dB Static load max 42 N Stroke 50 mm Supply voltage 12 V DC Temperature operational max 50 °C Temperature operational min -10 °C	Back drive force	22 N
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Sound level55 dBStatic load max42 NStroke50 mmSupply voltage12 V DCTemperature operational max50 °CTemperature operational min-10 °C	Nominal speed, no load	13 mm/s
Static load max42 NStroke50 mmSupply voltage12 V DCTemperature operational max50 °CTemperature operational min-10 °C	Ratio	100:1
Stroke 50 mm Supply voltage 12 V DC Temperature operational max 50 °C Temperature operational min -10 °C	Sound level	55 dB
Supply voltage 12 V DC Temperature operational max 50 °C Temperature operational min -10 °C	Static load max	42 N
Temperature operational max 50 °C Temperature operational min -10 °C	Stroke	50 mm
Temperature operational min -10 °C	Supply voltage	12 V DC
· ·	Temperature operational max	50 °C
Weight 40 g	Temperature operational min	-10 °C
	Weight	40 g

L12-SS-GG-VV-C

L12-55-GG-VV-C	
feature	Options
SS: Stroke Length	10, 30, 50, 100
GG: Gear reduction	50, 100, 210
ratio (refer to load	(lower ratios are faster but push
curves above)	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 SS: Stroke Length GG: Gear reduction ratio (refer to load curves above) VV: Voltage VC: Controller C: Controller L10, 30, 50, 100 S0, 100 (lower ratios are faster but push less force, and vice versa) VC: Voltage G, 12 (DC volts) S Limit Switches P Potentiometer Feedback I Integrated Controller R RC Servo Integrated Controller

