

# OEM Automatic Ltd

Address: Whiteacres, Whetstone Leicester, LE8 6ZG 0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk



# ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-50-50-12-S 12V, 50mm stroke, up to 22N 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

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.

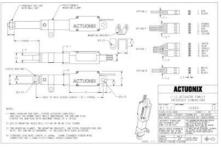
# **TECHNICAL DATA**

Back drive force         12 N           Duty cycle         20 %           Force max         22 N           IP class         IP54           Nominal speed, no load         25 mm/s           Ratio         50:1           Sound level         55 dB           Static load max         22 N           Stroke         50 mm           Supply voltage         12 V DC           Temperature operational max         50 °C           Temperature operational min         -10 °C           Weight         40 g		
Force max   22 N     IP class   IP54     Nominal speed, no load   25 mm/s     Ratio   50:1     Sound level   55 dB     Static load max   22 N     Stroke   50 mm     Supply voltage   12 V DC     Temperature operational max   50 °C     Temperature operational min   -10 °C	Back drive force	12 N
IP class IP54  Nominal speed, no load 25 mm/s  Ratio 50:1  Sound level 55 dB  Static load max 22 N  Stroke 50 mm  Supply voltage 12 V DC  Temperature operational max 50 °C  Temperature operational min -10 °C	Duty cycle	20 %
Nominal speed, no load  Ratio  50:1  Sound level  55 dB  Static load max  22 N  Stroke  50 mm  Supply voltage  12 V DC  Temperature operational max  50 °C  Temperature operational min  -10 °C	Force max	22 N
Ratio 50:1  Sound level 55 dB  Static load max 22 N  Stroke 50 mm  Supply voltage 12 V DC  Temperature operational max 50 °C  Temperature operational min -10 °C	IP class	IP54
Sound level     55 dB       Static load max     22 N       Stroke     50 mm       Supply voltage     12 V DC       Temperature operational max     50 °C       Temperature operational min     -10 °C	Nominal speed, no load	25 mm/s
Static load max 22 N   Stroke 50 mm   Supply voltage 12 V DC   Temperature operational max 50 °C   Temperature operational min -10 °C	Ratio	50:1
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	22 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

