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ACTUONIX - MINIATURE LINEAR ACTUATOR L12

L12-50-50-6-R
6V, 50mm stroke, up to 22N force, with RC servo controller



- 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

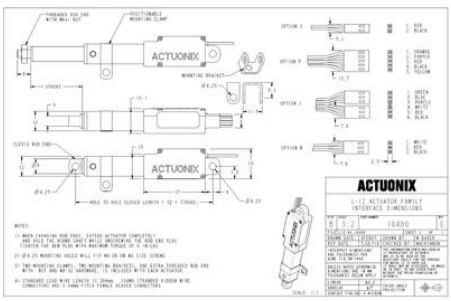
Actuonix Motion Devices unique line of Miniature Linear Actuators enables a new generation of motion-enabled product designs, with capabilities that have never before been combined in a device of this size. These small linear actuators are a superior alternative to designing with awkward gears, motors, 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
Stroke	50 mm
Temperature operational max	50 °C
Temperature operational min	-10 °C

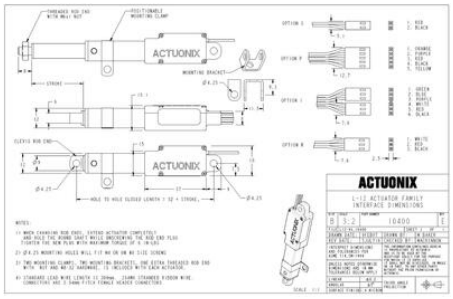
L12-SS-GG-VV-C

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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ACTUONIX

L-12 ACTUATOR FAMILY
INTERFACE DIMENSIONS

SIZE	PART NUMBER	REV
B	L12-I 10400	E

DRAWING UNITS: [illegible]	SHEET 1 OF 1
KEY NOTES: [illegible]	

NOTES:

1) WHEN CHANGING ROD ENDS, EXTEND ACTUATOR COMPLETELY AND HOLD FLAT ROUND SHAFT WHILE UNSCREWING THE ROD END PLUG. TIGHTEN THE NEW PLUG WITH MAXIMUM TORQUE OF 5 IN-LBS.

2) Ø4.25 MOUNTING HOLES WILL FIT M4 OR #8 32 SIZE SCREWS.

3) TWO MOUNTING CLAMPS, TWO MOUNTING BRACKETS, ONE EXTRA THREADED ROD END WITH NUT AND #8-32 HARDWARE, IS INCLUDED WITH EACH ACTUATOR.

4) STANDARD LEAD WIRE LENGTH IS 304mm. 26AWG STRANDED RIBBON WIRE. CONNECTORS ARE 2.54MM PITCH FEMALE HEADER CONNECTORS.

SCALE 1:2