



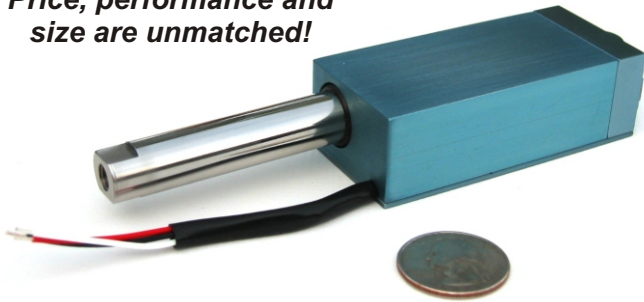
Craig Kackert  
**Design  
 Tech., Inc.**  
 805-522-3750 USA

# MINI LINEAR ACTUATOR L13-SERIES 1.8" STROKE

Up to 100 (lbf) Force  
 With Limit Switches

Designed for Aerospace applications this actuator has been approved under FAA-STC#SR00180SE

Price, performance and size are unmatched!



## Applications

R.O.V.s, U.A.V.s., R.P.V.s.  
 Industrial Motion  
 Special Effects  
 Aerospace/FAA  
 Robotics / A.I.  
 Animatronics

## Features

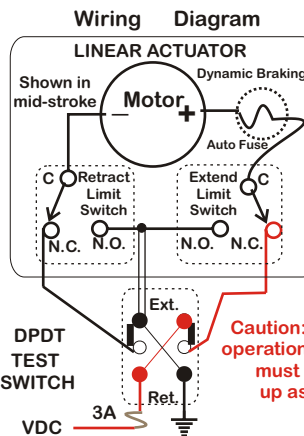
Long Life Motors  
 Wide Voltage Range  
 Planetary Gear Head  
 Dual Ball Bearings  
 Long Life Switches  
 Wide Temp. Range

This Professional Linear Actuator has the power in a rugged miniature precision package unlike any others. Designed for robotics and aerospace applications this precision actuators is built with the best components available. A custom Maxon™ coreless DC motor with planetary gearhead and dynamic braking mil. spec. limit switches gives it an estimated 10mil.+ cycle life. The lead screw, drive gears, rod, dual bearings, and hardware are all Stainless Steel. It may be operated from 12 to 28 Volts DC. Other loads and speeds are available for production runs.

Each actuator is fully factory tested and load cycled tested before it leaves our dock.

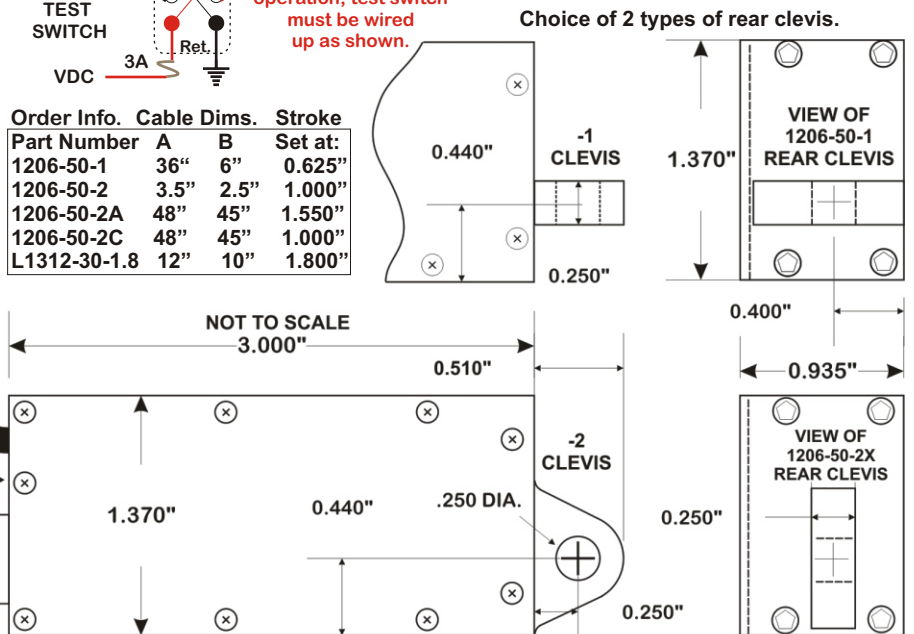
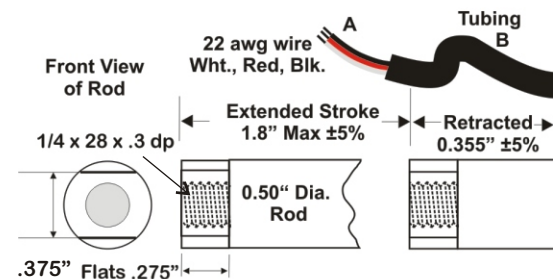
The limit switches are factory set with 4 different stroke lengths available in this model: .625"; 1.0"; 1.55" or 1.8".

L13 Series General Actuator Specifications	
Voltage/Amps	12-28VDC @1.2A max.
Optium Voltage	26VDC
Current @50% D/C Load	.25 Amps Typical @26vdc
Body-Dimensions	3.0"x 1.37"x 0.935"
Weight	7.0 oz
Duty Cycle Loads, Speed	See Control Dwg.
Stroke	.625"; 1.0"; 1.5" or 1.8" ±5%
End Play	0.002" Typical, .008" Max.
DC Motor	Coreless, Neodymium Magnet
Motor Protection	Thermal Auto Reset
Temp. Range	-60° to 130° deg C
Case	6061-T6 Anodize Finish
Linear Rod	304 Stainless Steel
Acme Drive	Custom Lead Screw & Nut
Static Compression Load	150 lbf Max. Fully extended
Static Tension Load	200+ lbf
Linear Potentiometer	Not Available (see L16-Series)
Limit Switches	10M+ Cycles (Mil 8805/109)
Harsh Environment Protection (HEP) Option available.	
Control Dwg. # 1206-50-XX Rev. E	



L13 Series P/N 1206-50-XX OPERATIONAL CHARACTERISTICS	
TEST VOLTAGE	28 VDC
CURRENT	Typ. 0.065 amp. no load
RATED LOAD	30 LB @ 0.27"Sec/260ma
STALL LOAD	100 LB. @1.20 amp.
DUTY CYCLE	Intermittent

Order Info.	Cable Dims.	Stroke
Part Number	A B	Set at:
1206-50-1	36" 6"	0.625"
1206-50-2	3.5" 2.5"	1.000"
1206-50-2A	48" 45"	1.550"
1206-50-2C	48" 45"	1.000"
L1312-30-1.8	12" 10"	1.800"



Cycle life of actuator could vary depending on operating conditions. Tolerances are + 5%.

www.ckdesigntech.com Not intended for medical use. Specification may change without notice. Rated load @ 50% duty cycle.