



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

LINEAR ACTUATORS

with feedback
 W-Series 2" 4", and 6" stroke
 25 to 150 lbf loads



Applications

Animatronics
 R.P.V.'s & U.A.V.'s
 Special effects
 Robotics
 Remote Control
 Motion

Features

Low cost models
 Long life motors
 Speeds up to 5"/sec
 RC Plug & Play with
 our Servo Motor
 Controllers

General

These compact and rugged actuators provide consistent performance in harsh environments. All W-series actuators are offered in 2", 4", or 6" strokes with 10k pots. The W10-Series are low cost actuators that come in 25,40 & 75 lbf loads, and 13.5 or 26vdc motors. The W70-Series and W90-Series actuators have long life high performance DC core-less MAXON motors, that could provide up to 5"/sec and loads from 50 to 150 lbf.

As part of our **plug & play system**, mate the W10 and W70 Series directly to our S6PWM servo motor controllers and the W90 Series to the 12PWM servo motor controller. These control position using, 1.25-3.75 Volts or RC PCM (1-2ms) input.

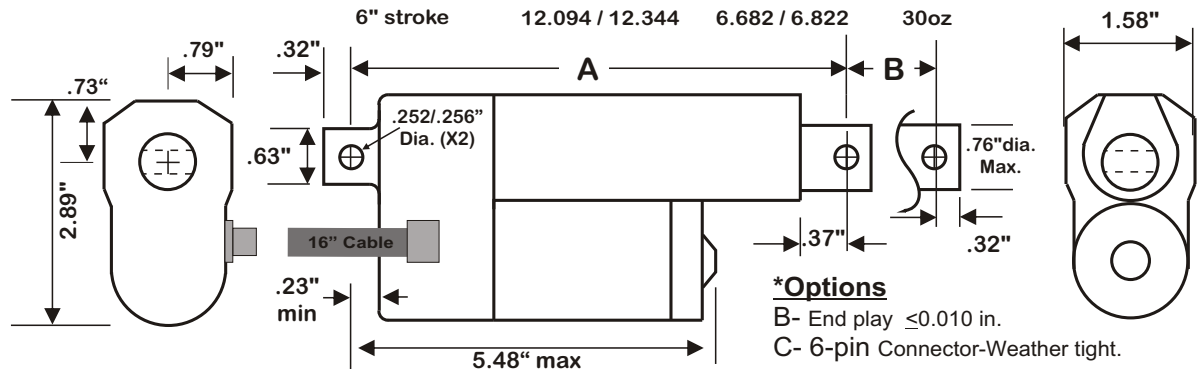
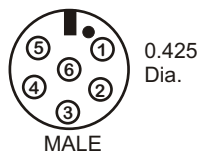
Specifications

		W10-SERIES	W70-SERIES	W90-SERIES
Stroke	2", 4", or 6".			
Feedback	10K, 50% of Travel Used			
Drive	Acme, No Back Drive			
End play	<0.010in			
Static load	300 lb			
Stall Force	Double rated load			
Restraining torque	20 "/lb "Linear Rod"			
Housing	Al./zink (96hr salt spray)			
Mounting	Clevis 1/4" dia			
		Volt/Amp (V code) ±2 VDC	14V@6A peak (12) 26V@ 3A peak (24)	26V@ 2.4A avg. (24) 6 Amp peak
		Motor fuse	Thermal auto reset	None
		Motor temp.	-20°C to 65° C	-20° C to 120° C
		Duty cycle	30%	50%
		Rated load/speed: →	25 lb @ 3"/sec	50 lb @ 3.0"/sec
		Rated load/speed: →	40 lb @ 1.5"/sec	100lb @ 1.5"/sec
		Rated load/speed: →	75 lb @ 1"/sec	150lb @ 1.0"/sec
		Mates With Our:	S6PWM Servo Amp	S6PWM Servo Amp
				8.25 Amp peak for 2 sec.
				None
				-20° C to 140° C
				50%
				60 lb. @ 5.0"/sec
				100 lb. @ 3.0"/sec
				150 lb. @ 1.5"/sec
				12PWM Servo Amp.

	A = RETRACTED	B = STROKE	WEIGHT
2" stroke	7.66 / 7.91	2.242 / 2.382	26oz
4" stroke	9.88 / 10.13	4.462 / 4.602	28oz
6" stroke	12.094 / 12.344	6.682 / 6.822	30oz

"C" option.

1. Motor (+) 18awg wht/red
2. Motor (-) 18awg wht/blk
3. Pot. low 24awg wht/blk
4. Pot. wiper 24awg wht
5. Pot. high 24awg wht/red
6. Braided Shield



*Options

- B- End play ≤0.010 in.
- C- 6-pin Connector-Weather tight.

Ordering Information

Series	V Code	Load lb.	Stroke
10,70,90			2,4,6"

W _____ - _____ - _____

Order Our Servo Motor Controllers Separately.

Cycle life of actuator could vary depending on operating conditions. Tolerances are ± 5%.
 Not intended for medical use. Specification may change without notice. Rated load @ 50% duty cycle.

7-26-07