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**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. & U.A.V.
 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. W-Series actuators are offered in 2", 4", & 6" strokes with 10k pots. The W10-Series are low cost actuators that come in 25, 40 & 75 lbf loads, & 12V or 24V motors. The 24/28V W70 and W90-Series actuators have long life, high performance core-less motors. They provide up to 5"/sec and loads from 50 to 150 lbf. Our L16 & W70/90 Series is #1 pick for U.A.V. & Animatronics.

!!! PLUG & PLAY direct to your RC PCM Radio with our Servo Motor Controllers and Cables. !!!

Specifications Rev A 7-17-15

Stroke	2", 4", or 6".
Feedback	10K, 50% of Pot Travel Used
Drive	Acme
Rod End play	<0.012" Typ. .006"
Static load	300lb for Tension/Compression
Stall Force	Double the rated load
Housing	Al./zink (96hr salt spray)
Mounting	Clevis 1/4" dia
Rod Radial Play	±15° (See Option A)

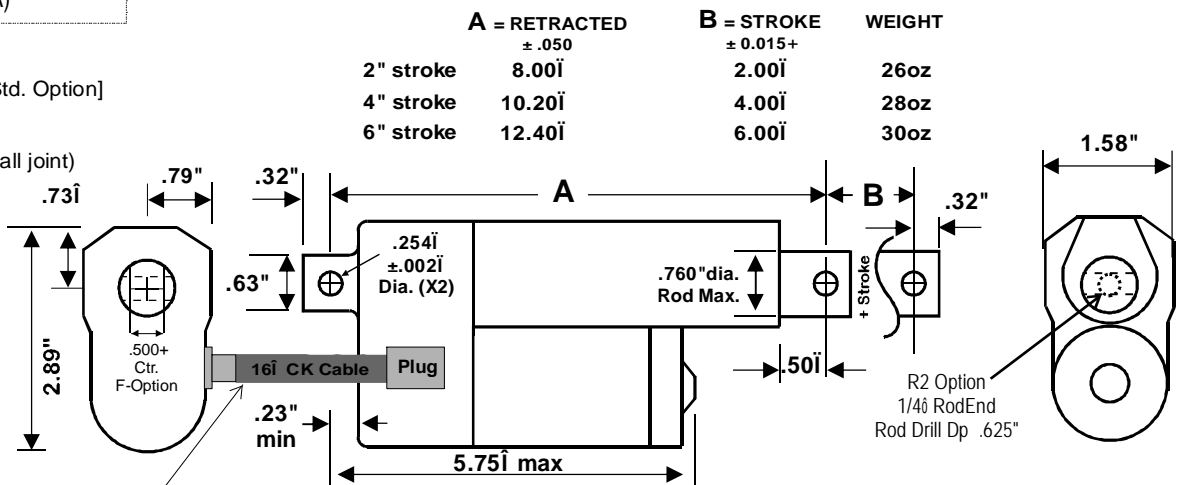
	W1012/24-SERIES	W7024-SERIES	W9015-SERIES
Voltage Range	12/14.7V or 24/28V	24/28V	24/28V
Test Voltage/Amp	14.7V @ 6A peak (12) 28V @ 3A peak (24)	28V @ 2.4A avg. 6 Amp peak	28V @ 4.2A avg. 8.25 Amp peak for 2 sec.
Motor fuse	Thermal auto reset	None	None
Motor temp.	-20°C to 65°C	-20°C to 100°C	-30°C to 100°C
Duty cycle	30%	50%	50%
Rated load/speed:	25 lb @ 3"/sec	50 lb @ 3.0"/sec	60 lb. @ 5.0"/sec
Rated load/speed:	40 lb @ 1.5"/sec	100lb @ 1.5"/sec	100 lb. @ 3.0"/sec
Rated load/speed:	75 lb @ 1"/sec	150lb @ 1.0"/sec	150 lb. @ 1.5"/sec
Mates With Our:	S6PWM Servo Amp	S6PWM Servo Amp	12PWM Servo Amp.

Options:

- C= Conxall Plug: P/N 6280-6PG [Std. Option]
- M= Mil Spec Plug MS3116F10-6P
- W= Mil Spec Wire MIL-W-16878
- R2=Rod End Tapped 1/4"-28 (for ball joint)
- F= Rear Clevis Flats 1/2" Center
- A= Rod Radial Play <3°
- B= 1/4" Clevis Bearing Bushings
- + = Custom Customer Requests

Pin

- (M) [C] Connector Type
- (B) [1] Motor (+) 20awg wht/red
- (C) [2] Motor (-) 20awg wht/blk
- (D) [3] Pot. Low 24awg wht/blk
- (E) [4] Pot. Wiper 24awg wht
- (F) [5] Pot. High 24awg wht/red
- (A) [6] Pot Cable Shield, open end in case



CK Servo Cable:
 Insulation: PVC per MIL-W-76B 105°C
 Cable Jacket: Blk. Alcryn, -40°C/+107°C

Ordering Information

1012; 1024; 7024 or 9015	Load lb. See Series	Stroke 2, 4, 6"	Options
W			

Use our Servo Motor Controllers and cables for "Plug and Play" direct to your RC Radios!

Each actuator is fully factory tested and load cycled. Certs are available upon request.

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