

Linear Servo

Mechanical Unit

General Description

Unique servo conversion system provides true linear output motion from a standard (Futaba) R/C type servo.

The linear servo converts the 42 in-oz torque from the standard Futaba servo into more than 1- lbf (foot-pound-force) of push and pull with maximum control horn travel back and forth, linear throw of 0.5" to 0.75" depending on end point adjustment from the signal source but will not exceed 0.75" max.

Excellent for animatronics applications where push and pull cable, rod or direct linear motion applications are needed.

When using standard servo horns to convert rotational motion into linear motion, the amount of output from the servo is not consistent throughout the full range of the servo rotation. The linear servo solves this long time problem and provides much more precise control over any application to which it is applied.

This servo has a Futaba (J - type) connector which attaches directly to any 0.1" - 3 pin header.

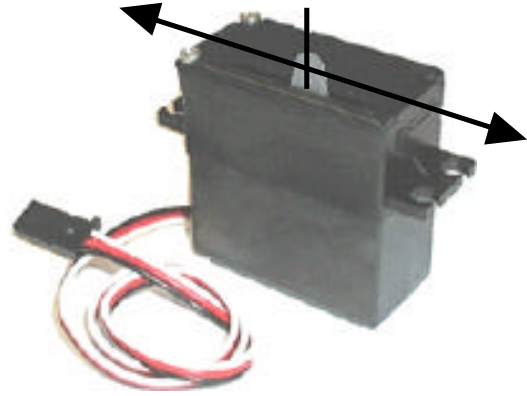
Supply Voltage: 4.8 - 6 Volts DC

Applications

- Animatronics
- Haunted Attractions
- Trade Shows
- Robotics
- Media Arts
- Marketing
- Technology
- Entertainment
- Other

Ordering Information

Catalog Number:
LSM-0250



Servo body size: Aprox. 1-5/8" L x 3/4" W x 1-7/8" H

Features

Torque: Servo: 42 Oz-in / 3024 g-cm
Linear Control Horn: 1- lbf (foot-pound-force) of push and pull.

Servo Speed: 0.22 sec / 60° servo output rotation
Horn Speed: approximately 1.7 inches per second

Linear Throw: 0.5" to 0.75" depending on end point adjustment from the signal source but will not exceed 0.75" max.

Supply Voltage: 4.8 - 6 Volts DC

Supply Current: 8mA @ 6Volts (idle)

Neutral Pulse: 1250 μ s
Full CCW Pulse: 2200 μ s
Full CW Pulse: 220 μ s

Servo output shaft: Ball Bearing supported

Weight: 1.5 Oz (44.4 g)

Wiring: +V (RED)
GND (BLACK)
Control (WHITE)

Connector: J - type connector which attaches directly to any standard 0.1" - 3 pin header.

For more information on this product or to place an order

Blue Point Engineering

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