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HS-311 Standard

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MAXIMUM TORQUE → **51 oz-in.**
MAXIMUM SPEED → **0.15 sec/60°**

The HS-311 is the perfect servo for inexpensive applications. Do not let the price fool you though, this servo features many of the same aspects of more expensive servos. One piece circuit board and tight mesh gears ensures great durability. Comes with a number of various servo horns and arms with mounting hardware.


→ Analog Servo
Price: \$7.99
Part: 31311S
Status: → In-Stock
Rotation: 90° Rotation (Stock)
Direction: Clockwise (Stock)
Qty: 1

Uses C1 Standard Spline

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Detailed Specifications

Control System: +Pulse Width Control 1500usec Neutral

Required Pulse: 3-5 Volt Peak to Peak Square Wave

Operating Voltage: 4.8-6.0 Volts

Operating Temperature Range: -20 to +60 Degree C

Operating Speed (4.8V): 0.19sec/60° at no load

Operating Speed (6.0V): 0.15sec/60° at no load

Stall Torque (4.8V): 42 oz/in (3.0 kg/cm)

Stall Torque (6.0V): 51 oz/in (3.7 kg/cm)

Current Drain (4.8V): 7.4mA/idle, 160mA no load operating

Current Drain (6.0V): 7.7mA/idle, 180mA no load operating

Dead Band Width: 5usec

Operating Angle: 45° one side pulse traveling 450usec

Direction: Multi-directional

Motor Type: Cored Metal Brush

Potentiometer Drive: 4 Slider/Direct Drive

Bearing Type: Top Resin Bushing

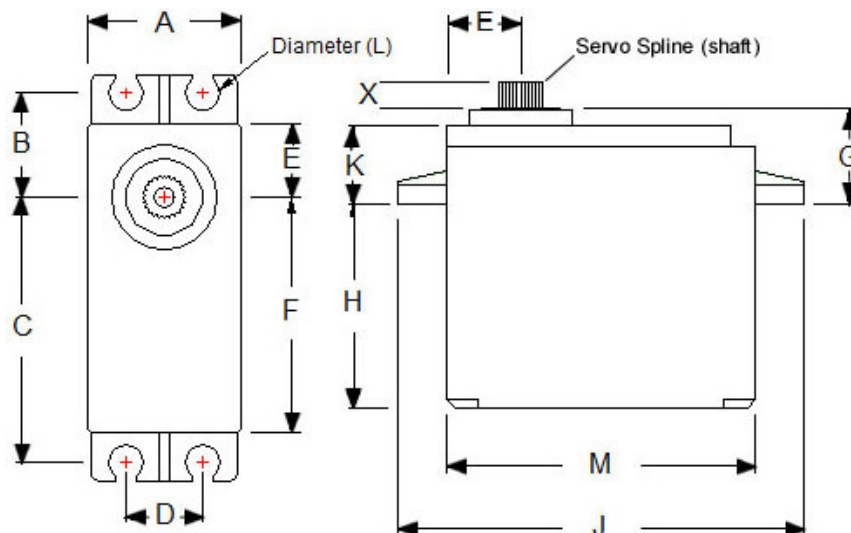
Gear Type: Nylon

360 Modifiable: [Yes](#)
Connector Wire Length: 11.81" (300mm)

Weight: 1.52oz (43g)

Servo Hardware & Accessories

GENERAL SERVO INFORMATION

[MORE INFO](#) **WHAT IS A SERVO?**
[MORE INFO](#) **HOW SERVOS WORK**
[MORE INFO](#) **WHAT SERVO TO USE**
[MORE INFO](#) **SERVO POWER & SPEED**
[MORE INFO](#) **ROTATION DIRECTION**
[MORE INFO](#) **CONNECTOR TYPES**
[MORE INFO](#) **180 DEGREE ROTATION**
[MORE INFO](#) **CONTINUOUS ROTATION**

 **CONVERSION CALCULATORS**

A = .780" (19.82mm)
B = .530" (13.47mm)
C = 1.33" (33.79mm)
D = .400" (10.17mm)
E = .380" (9.66mm)
F = 1.19" (30.22mm)
G = .460" (11.68mm)
H = 1.05" (26.67mm)
J = 2.08" (52.84mm)

