

**S3003 Standard Servo**

Servo motor for Arduino and Raspberry-Pi robotics projects.  
 Typical use: Model aircraft, cars and robots.  
 Rotates forward or backwards to a given position.  
 Bidirectional rotation - pulse duration determines the direction.

Item no: 87902 single pack, 90721 pack of 4 pcs.

Model no: S3003

Weight: 38g.

Rotation Angle: 180°

Torque: 3,2 kg/cm (31 Ncm) (at 4,8 V).

Torque: 4,1 kg/cm (40 Ncm) (at 6 V).

Speed: 0,23 sec/60° (at 4,8 V).

Speed: 0,19 sec/60° (at 6 V).

Linear response to PWM for easy ramping.

Operating voltage: 4,8-6 V.

Operating temperature: -10 to 50 °C.

Current idle: 7.2mA at 4.8 V, 8 mA at 6 V.

Current max: < 1000 mA.

Cable length: 290 mm.

Connector type: JR / Futaba

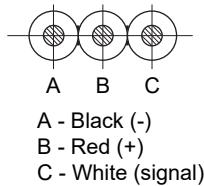
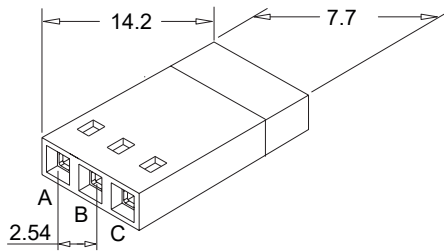
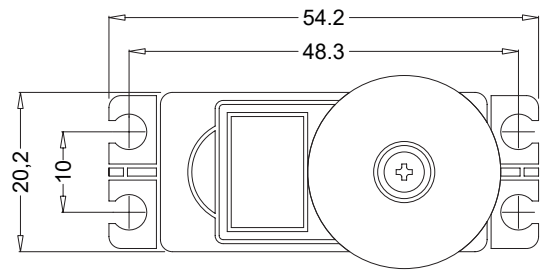
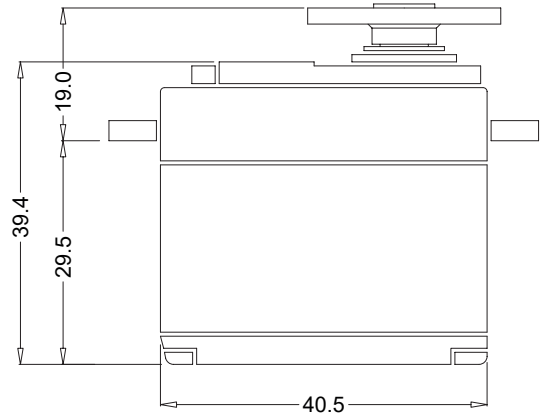
Breadboard friendly connector 2,54 mm pitch.

Connector wire gauge: 28 AWG.

Control system: PWM (Pulse Width Modulation)

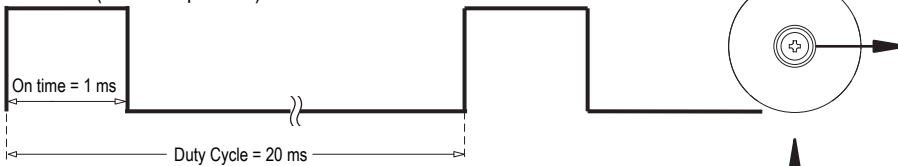
Pulse Frequency / Duty cycle: 50 Hz / 20 ms square wave

Direction w/ Increasing PWM Signal: Counter Clockwise

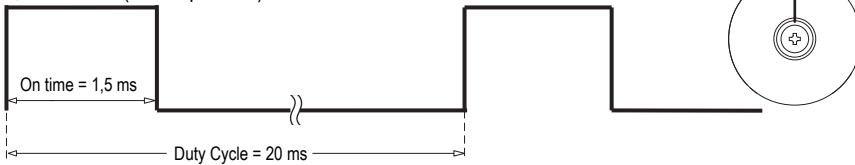


**180° servo PWM signal timings**

1 ms = 0° (minimum position)



1,5 ms = 90° (center position)



2 ms = 180° (maximum position)

