

Title:

Servo

Sensor/Indicator/Actuator:

Indicator Actuator

Features:

Provides Rotational Energy

Connection:

Digital

Summary:

A Servo is a type of motor. It is controlled by telling it what angle to travel then it will go there. Servos are great when you want precision movements. This feature also allows us to extend the functionality of the Servo. It can be used to show data like a dial. We can map values that we want to display to positions of the Servo.

Example Code

This code sweeps the servo's position from 0 to 180 degrees and back.

```
#include <Servo.h>

//Change here if you're using a different socket
#define SERVO_SOCKET 6 //<- digital socket number

Servo myServo;

int pos = 0;
int servoSpeed = 15;

void setup() {
  myServo.attach(SERVO_SOCKET);
}

void loop() {
```

```
    for (pos = 0; pos <= 180; pos += 1) {  
        // in steps of 1 degree  
        myServo.write(pos);  
        delay(servoSpeed);  
    }  
    for (pos = 180; pos >= 0; pos -= 1) {  
        myServo.write(pos);  
        delay(servoSpeed);  
    }  
}
```