

```

#include <CapacitiveSensor.h>

/*
SpiderBot workshop - Sophie McDonald for MzTEK
*/

/*
* CapitiveSense Library Demo Sketch
* Paul Badger 2008
* Uses a high value resistor e.g. 10 megohm between send pin and
receive pin
* Resistor effects sensitivity, experiment with values, 50 kilohm -
50 megohm. Larger resistor values yield larger sensor values.
* Receive pin is the sensor pin - try different amounts of
foil/metal on this pin
* Best results are obtained if sensor foil and wire is covered with
an insulator such as paper or plastic sheet
*/

CapacitiveSensor cs_4_2 = CapacitiveSensor(4,2); // 10
megohm resistor between pins 4 & 2, pin 2 is sensor pin, add wire,
foil

// MOTORS
int motorpin1 = 10; //define digital output pin no.
int motorSpeed = 200;

void setup()
{
    Serial.begin(9600);
}

void loop()
{
    // long start = millis();
    long spiderSensor = cs_4_2.capacitiveSensor(30); // Sensor
resolution is set to 30

    Serial.println(spiderSensor); // print sensor
output 1

    delay(10); // arbitrary delay to limit data to serial port

    if(spiderSensor > 100) {
        motorMethod(); // call the motor method from below
    }
}

```

```
}//END OF LOOP
```

```
void motorMethod() {  
  analogWrite(motorpin1,motorSpeed); // turn on the motor, and set  
  the speed using the variable above.  
  delay(8000); // this delay will hold the  
  programme " keeping the motor on  
  analogWrite(motorpin1,LOW); // turn the motor pin off  
  (LOW)  
}
```