



(<https://www.dfrobot.com/product-78.html>)

## Introduction

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Are you tired of clicking mechanical button? Try our capacitive touch sensor. Right now we can find touch sensor on most electronic device. So upgrade your Arduino project with our new version touch sensor and make it cool!

This little sensor can "feel" people and metal touch and feedback a high/low voltage level. Even isolated by some cloth and paper, it still can feel a touch. However, the sensitivity will decrease as isolation becomes thicker.

For better understanding of our user's experience of our sensor module, we made following improvement. We can now "feel" our care for customers.

## Improvement List

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- Wide voltage range from 3.3V to 5V
- Standard assembling structure (two 3mm holes with multiple of 5cm as interval)
- Icons to simply illustrate sensor function
- High quality connector
- Immersion gold surface

## Specification

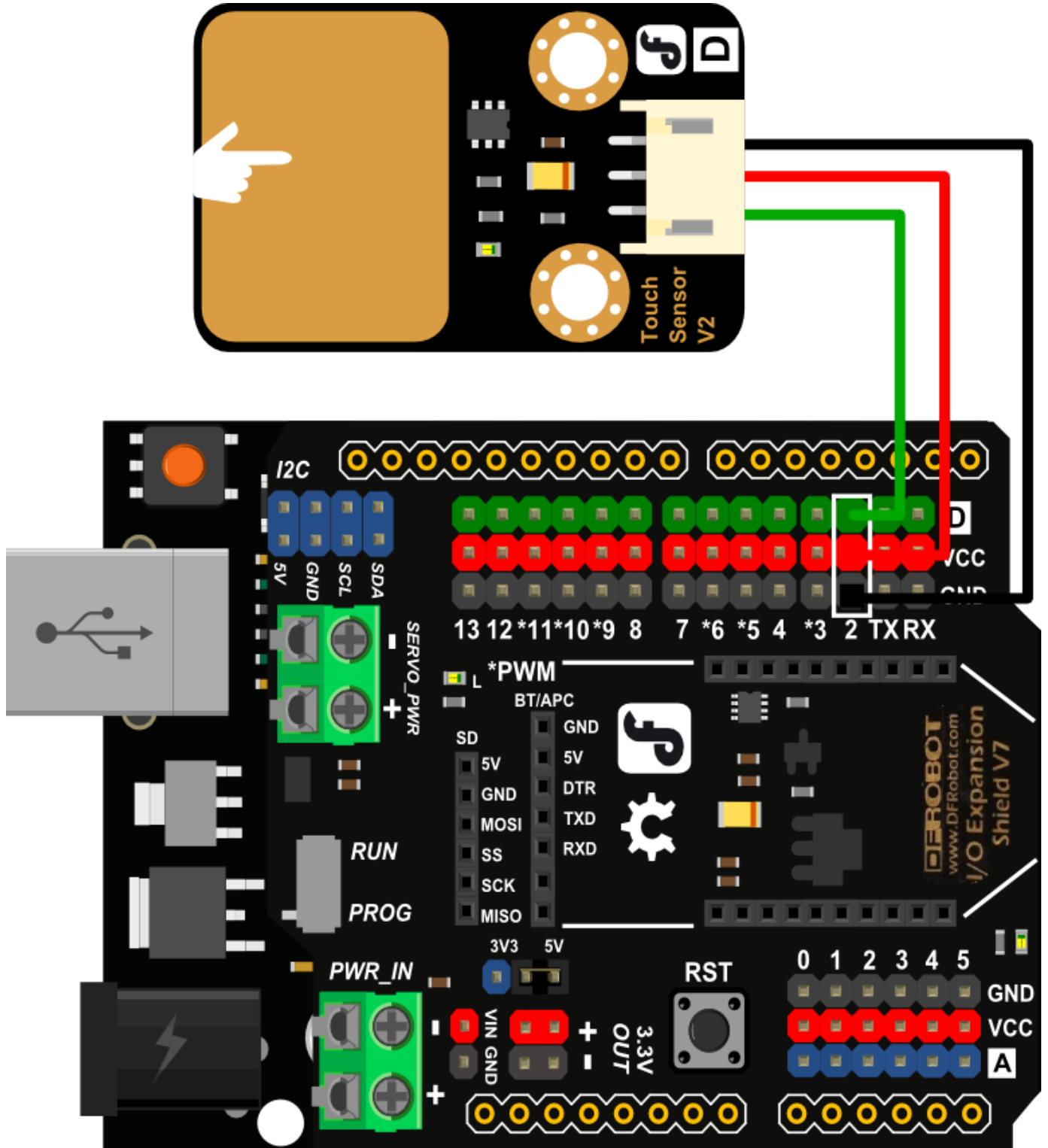
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- Supply Voltage: 3.3V to 5V

- Interface: Digital
- Size:22x30mm

## Tutorial

### Connection Diagram



### Sample Code

```
int ledPin = 13;           // Connect LED on pin 13, or use the onboard one
int KEY = 2;              // Connect Touch sensor on Digital Pin 2

void setup(){
  pinMode(ledPin, OUTPUT); // Set ledPin to output mode
  pinMode(KEY, INPUT);    //Set touch sensor pin to input mode
}

void loop(){
  if(digitalRead(KEY)==HIGH) { //Read Touch sensor signal
    digitalWrite(ledPin, HIGH); // if Touch sensor is HIGH, then turn on
  }
  else{
    digitalWrite(ledPin, LOW); // if Touch sensor is LOW, then turn off the led
  }
}
```

## Result

After the upload, if you use finger or metal object touch the metal surface of the transducer, the red LED lights on the UNO will light up.

## Trouble shooting

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More question and cool idea, visit DFRobot Forum (<https://www.dfrobot.com/index.php?route=DFblog/blogs>)

## More Documents

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### Version History

- DFRobot Capacitive Touch Sensor(SKU:DFR0030)  
([https://www.dfrobot.com/wiki/index.php/DFRobot\\_Capacitive\\_Touch\\_Sensor\\_\\_SKU:DFR0030](https://www.dfrobot.com/wiki/index.php/DFRobot_Capacitive_Touch_Sensor__SKU:DFR0030)  
)



Get **Gravity: Digital Capacitive Touch Sensor For Arduino**

(<https://www.dfrobot.com/product-78.html>) from DFRobot Store or **DFRobot Distributor**.

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