Touch sensor module

Technical Manual Rev 1r0

This module is based on a touch-sensing IC TTP223B capacitive touch switch module. In the normal state, the module output low, low power consumption, when a finger touches the corresponding position, the module output high, if not touched for 12 seconds, switch to low-power mode. Module can be installed in such as surface plastic, glass of non-metallic materials. Compatible in all gizDuino boards and MCUs.

Features:

- Low power consumption
-Power Supply 2~ 5.5V
- Can replace the traditional touch of a button
- Four M2 screws positioning holes for easy installation.

General Specifications:

Input supply voltage: 5VDC
Output: Digital
0 - untouch, 1 - touched
Type sensor: Capacitive
PCB Dimensions: 24mm x 24mm

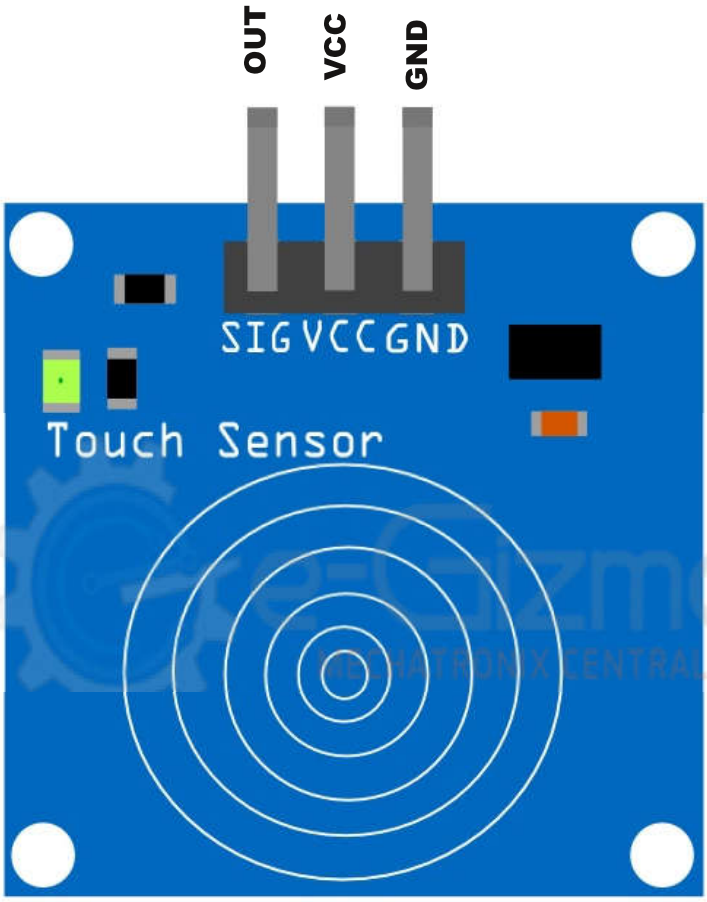
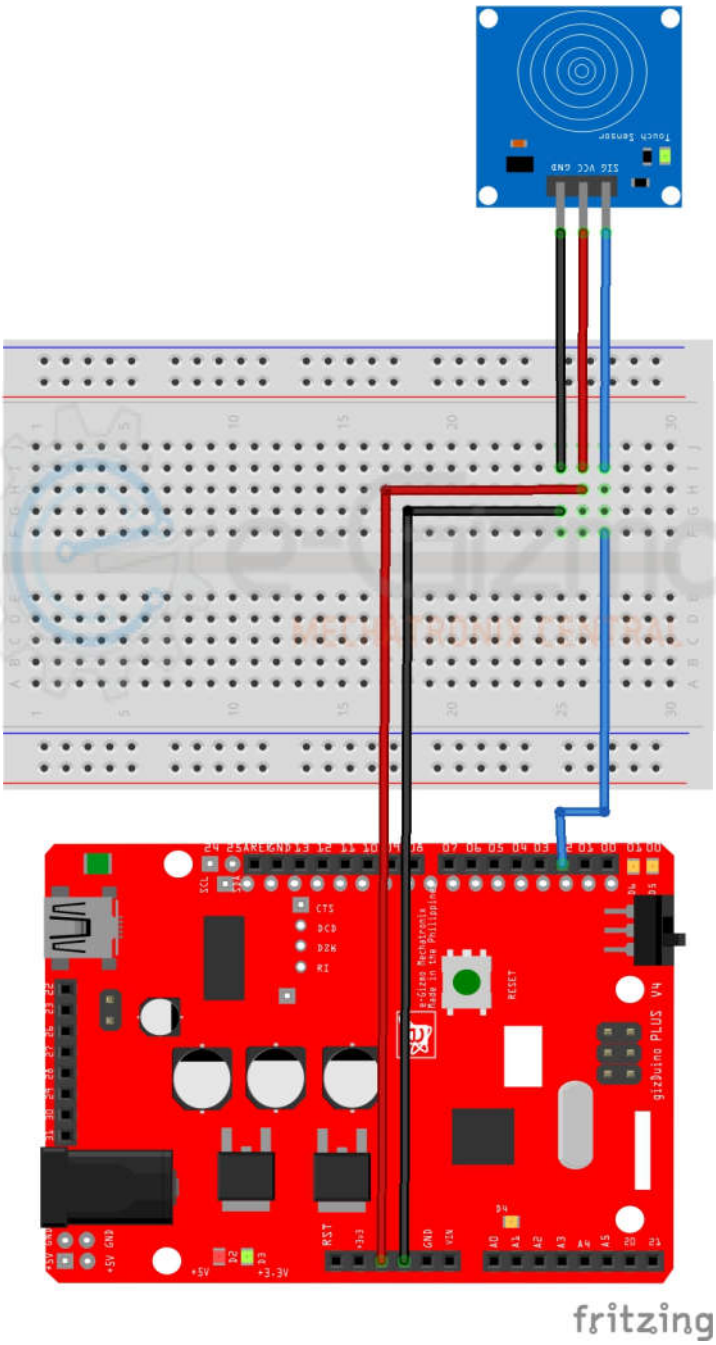


Figure 1: Major parts of Touch sensor module.

Wiring Connections:

Gizduino to Touch sensor

+5V	**VCC**
GND	**GND**
D2	**SIG**



```
/*
  e-Gizmo Touch sensor module

  This example code reads a digital input on D2,
  then prints the result to the serial monitor.

  Codes by
  e-Gizmo Mechtronix Central
  http://www.e-gizmo.com
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 */

// pins assignment
int OUTPUT_PIN = 2;


void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
  // set D2 on an input mode
  pinMode(OUTPUT_PIN, INPUT);
}

void loop() {
  // read the input D2 pin
  int OUTPUT_STATE = digitalRead(OUTPUT_PIN);
  // print out the result
  Serial.println(OUTPUT_STATE);
  delay(1);        // delay
}
```

Figure 2: Untouch ouput.

Figure 3: Touched ouput.