

Capacitive Touch Sensor Module

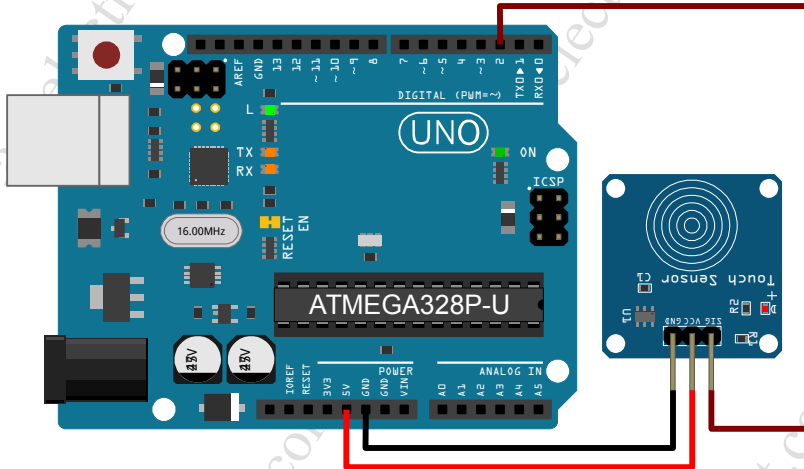
This module uses a "223B" capacitive sensor **I**ntegrated **C**ircuit which senses variations in capacitance at the large circular pad at the bottom of the **P**rinted **C**ircuit **B**oard.

Many modern devices such as smart phones, use capacitive sensing as it can be triggered by close proximity, unlike conventional touch switches which require actual physical contact. Capacitive sensors also function when there is a thin layer of non-metallic material between the sensor, and the finger. This makes them ideal for use where the sensor may be behind a glass or perspex panel to protect the internal electronics from adverse environmental conditions.

Table 1: Capacitive Touch Sensor Module Pin Connections

Device	Arduino	Wire	Description
GND	GND	■	Ground connection.
VCC	5V	■	5 Volts D irect C urrent positive supply for board circuitry.
SIG	D2	■	Digital output signal.

D2: can be any digital pin.



The sketch below can be used to display the results to the Arduino Serial Monitor / Plotter.

```
int pCapacitiveDigital = 2;
void setup() {
  pinMode( pCapacitiveDigital, INPUT );
  Serial.begin( 9600 );
}
void loop() {
  Serial.println( digitalRead( pCapacitiveDigital ), DEC );
}
```

Module Specifications

PCB Dimensions (H × W × D): 24.4 × 23.8 × 1.6 millimetres [mm]
Enclosing Dimensions (H × W × D): 28.6 × 23.8 × 7.2 mm
Weight: 1.86 grams [g]
Input Voltage: 5 VDC

Module Performance

Current Draw: 3.0 milliamps [mA] @ 5.01 VDC

Capacitive Touch Sensor Module...

Module Mounting

The module has 4×2.5 mm diameter holes at each corner of the Printed Circuit Board. As the bare component leads protrude through the bottom of the PCB, suitable spacers and insulation must be used.

Module Projects

Folder: \Modules\Interface\Capacitive_Touch_Sensor\

- **Capacitive_Touch_Sensor_SM**: Displays the results to the Arduino Serial Monitor / Plotter.

Capacitive Touch Sensor Module - Dimensions

