

# Touch lamp

## Overview







## Specification

Item	Min	Typical	Max	Unit
Power supply voltage VCC	2	3	5.5	V
Output high VOH	-	0.8VCC	-	V
Output low VOL	-	-	0.3VCC	V
Output Pin Sink Current (@ VCC = 3V, VOL = 0.6V)	-	8	-	mA
Output pin pull-up current (@ VCC = 3V, VOH = 2.4V)	-	4	-	mA
Response time (low power mode)	-	-	220	mS
Response time (touch mode)	-	-	60	mS
Size	24x24x7.2			mm
Weight	2			g

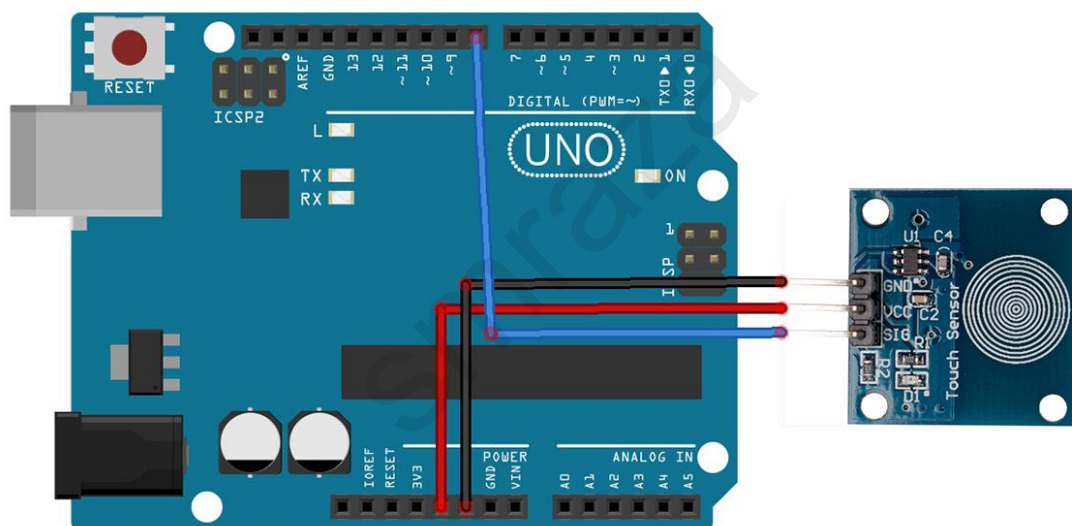
## Pin definition

UNO R3	Touch Sensor
GND	GND
5V	VCC
D8	SIG

## Hardware required

Material diagram	Material name	Number
	Touch Sensor	1
	USB Cable	1
	UNO R3	1
	Male to Female Jumper wires	Several

## Connection diagram



## Sample code

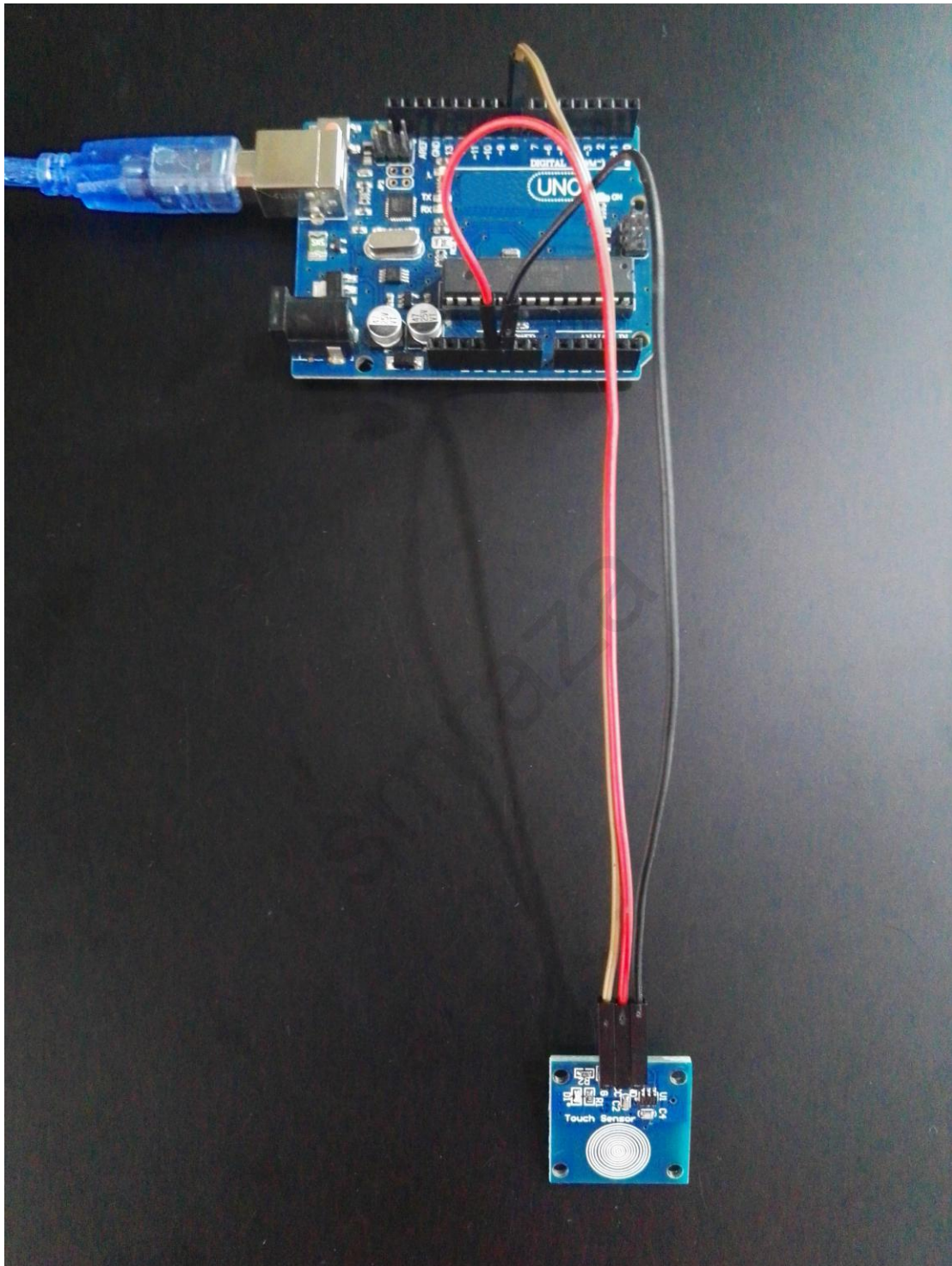
Note: sample code under the **Sample code** folder

```
#define TOUCH_SIG 8
boolean get_touch(){
    boolean touch_stat=0;
    touch_stat=digitalRead(TOUCH_SIG);
    return touch_stat;
}

void setup() {
    // put your setup code here, to run once:
    pinMode(TOUCH_SIG,INPUT);
    Serial.begin(9600);
}

void loop() {
    boolean touch_stat;
    // put your main code here, to run repeatedly:
    Serial.print("\nrunning\nTouch Stat - ");
    touch_stat=get_touch();
    Serial.print(touch_stat);
    delay(1000);
}
```

## Example picture



## Language reference

**Tips** : click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

[attachInterrupt](#)

[switch\(case\)](#)

## Application effect

Through the touch panel, you can control the LED light.

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