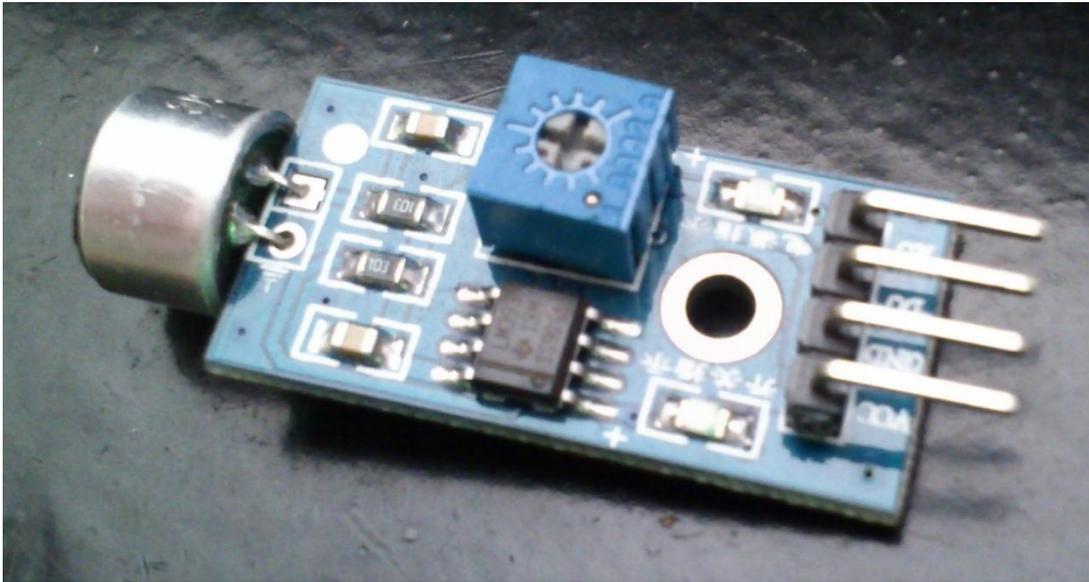


## SOUND SENSOR MODULE



### Description

The sound sensor module provides an easy way to detect sound and is generally used for detecting sound intensity. This module can be used for security, switch, and monitoring applications. Its accuracy can be easily adjusted for the convenience of usage.

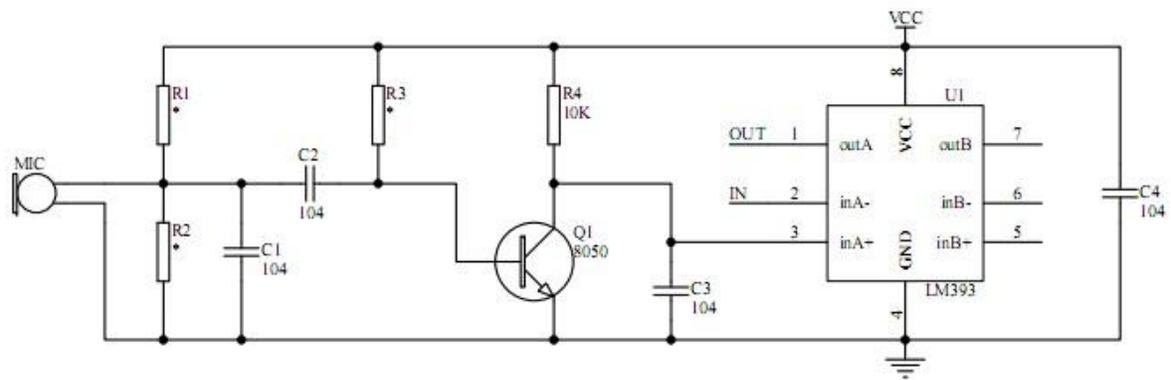
It uses a microphone which supplies the input to an amplifier, peak detector and buffer. When the sensor detects a sound, it processes an output signal voltage which is sent to a microcontroller then performs necessary processing.

### Specifications

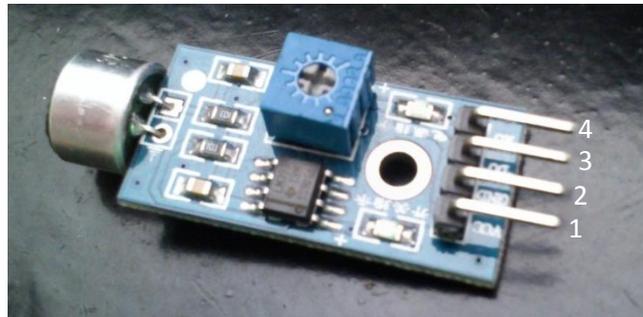
- Operating voltage 3.3V-5V
- Output model: digital switch outputs (0 and 1, high or low level)
- With a mounting screw hole

- PCB size: 3.4cm \* 1.6cm

## Schematic Diagram

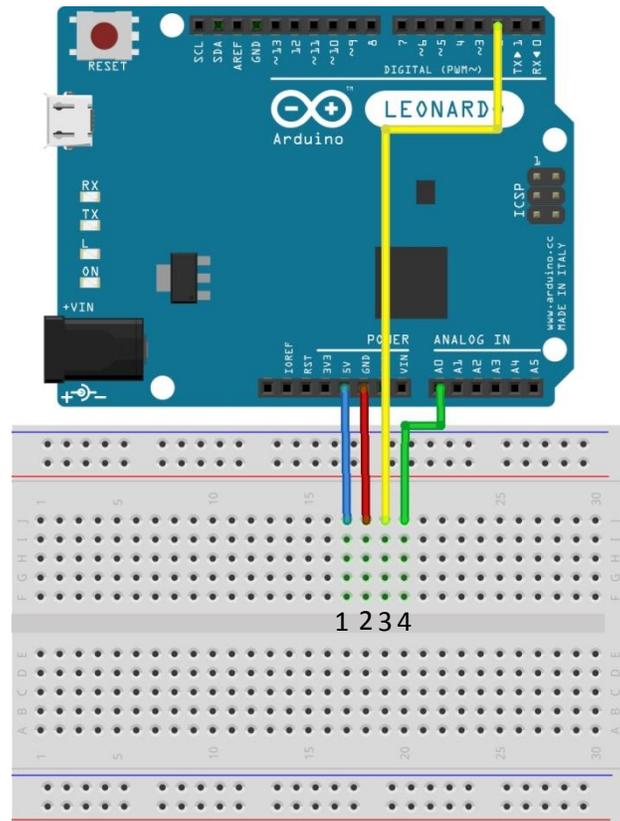


## Pin Configuration



1. VCC: 3.3V-5V DC
2. GND: ground
3. DO: digital output
4. AO: analog output

## Wiring Diagram



## Sample Sketch

```
void setup(){
  Serial.begin(9600);
  pinMode(2, INPUT);
}

void loop()
{
  if(digitalRead(2) == 0) Serial.println("no sound detected");
  else Serial.println("sound detected");
  delay(250);
}
```



The figure below shows when the module was subjected to sound. Note that the red LED should also light up when sound is detected.

