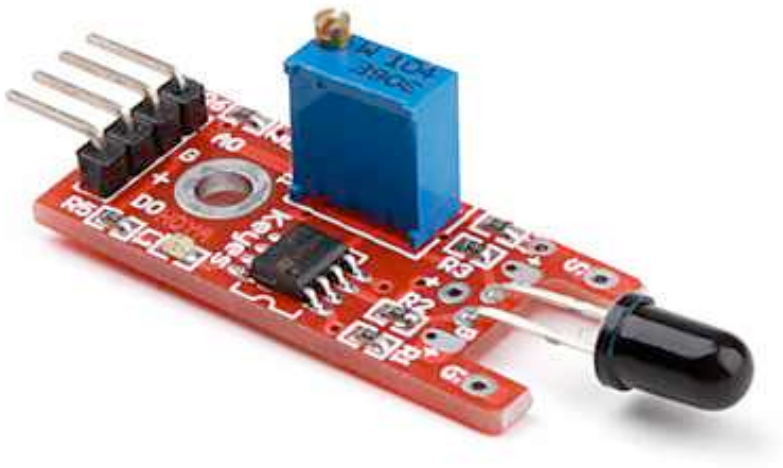
Flame Sensor Module



Introduction

This module is sensitive to the flame and radiation. It also can detect ordinary light source in the range of of a wavelength 760nm-1100 nm. The detection distance is up to 100 cm.

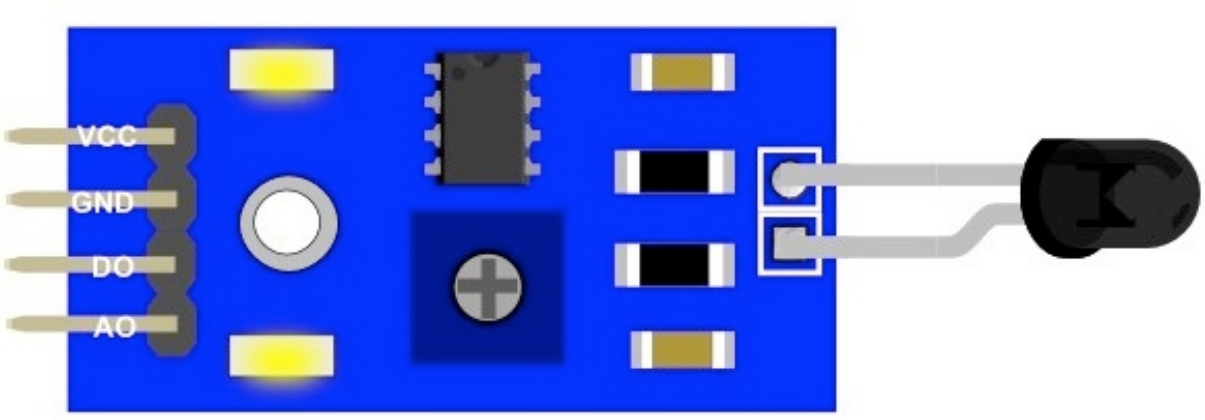
The Flame sensor can output digital or analog signal. It can be used as a flame alarm or in fire fighting robots.

Description

- Detects a flame or a light source of a wavelength in the range of 760nm-1100 nm
- Detection distance: 20cm (4.8V) ~ 100cm (1V)
- Detection angle about 60 degrees, it is sensitive to the flame spectrum.
- Comparator chip LM393 makes module readings stable.
- Adjustable detection range.
- Operating voltage 3.3V-5V
- Digital and Analog Output
  - DO digital switch outputs (0 and 1)
  - AO analog voltage output
- Power indicator and digital switch output indicator

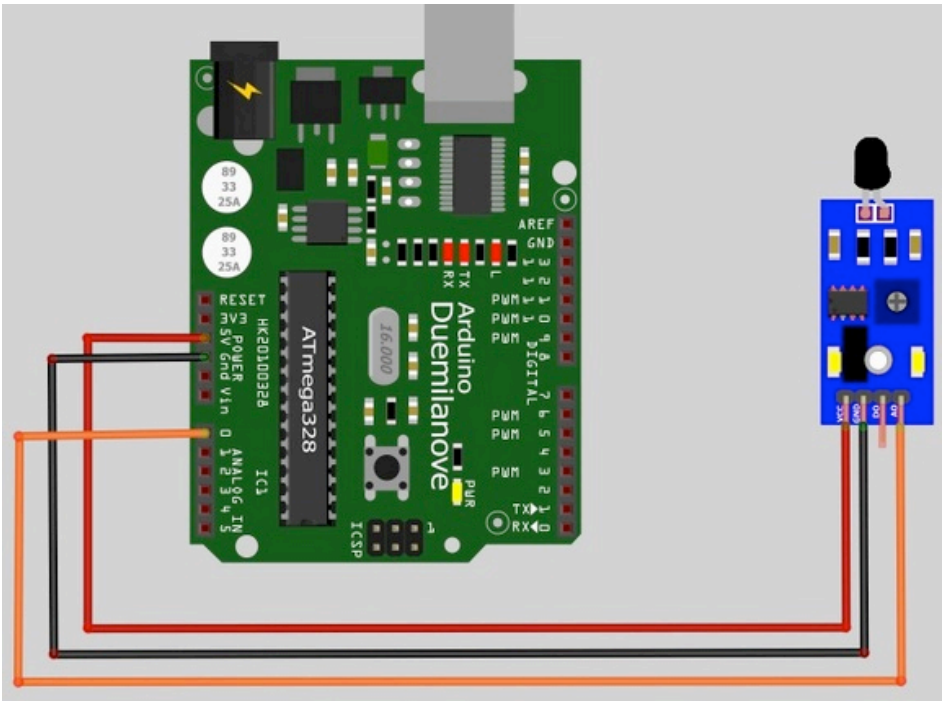
Interface Description (4-wire)

1) VCC -- 3.3V-5V voltage
2) GND -- GND
3) DO -- board digital output interface (0 and 1)
4) AO -- board analog output interface



Arduino Example

Here is sample code and connection to Arduino board. The analog output can be connected to any analog input pin on Arduino.




```
AnalogReadSerial
  Reads an analog input on pin 0, prints the result to the serial monitor.
  Attach the center pin of a potentiometer to pin A0, and the outside pins to
+5V and ground.

 This example code is in the public domain.
 */

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
  Serial.println(sensorValue);
  delay(1);        // delay in between reads for stability
}
```