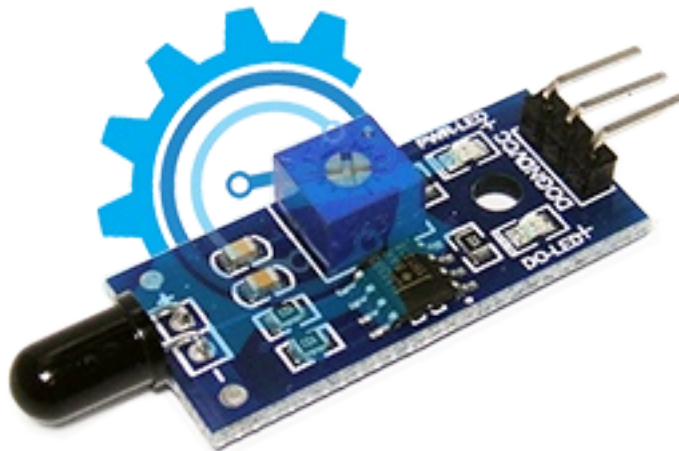


# Flame Sensor



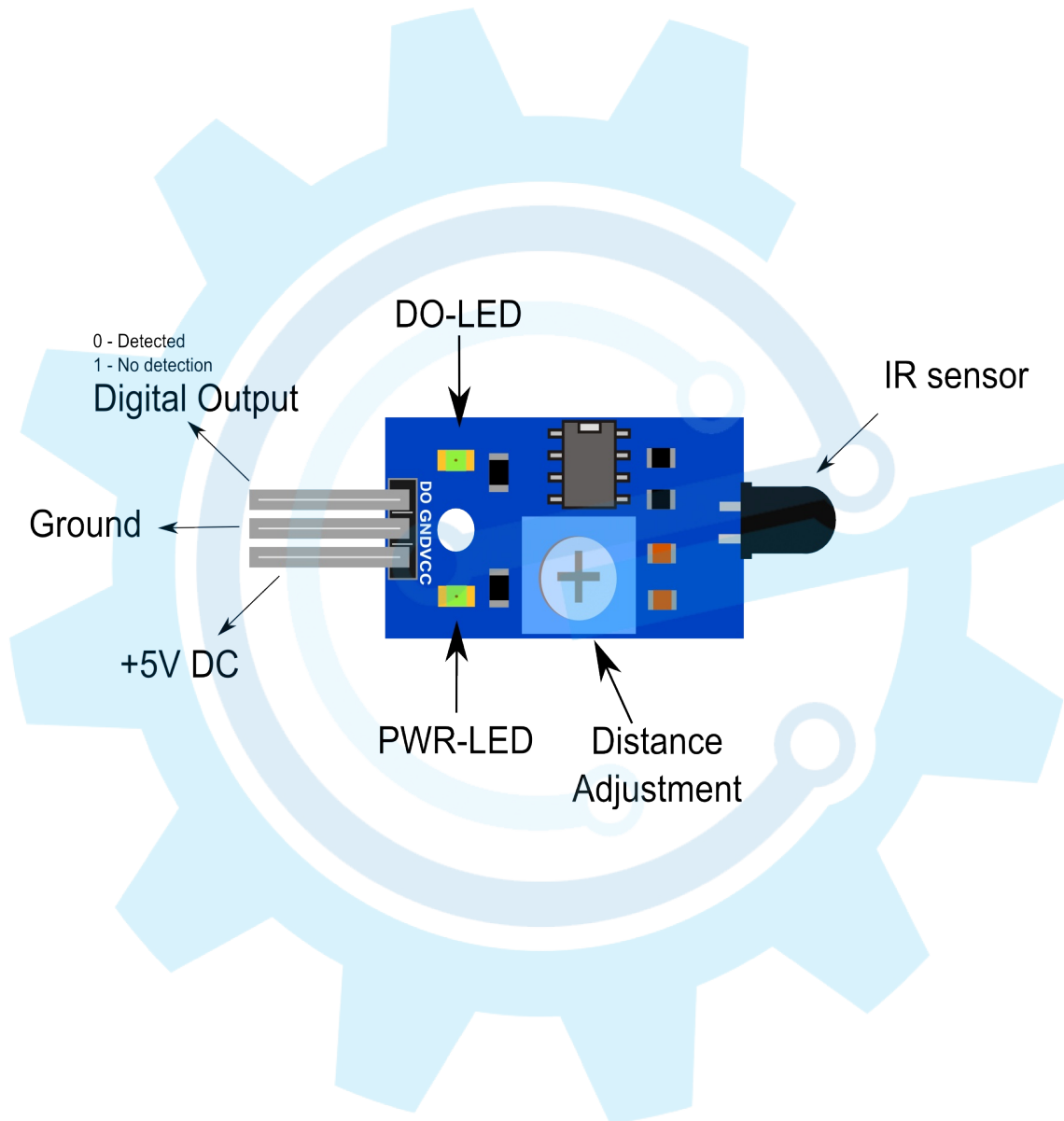
A simple fire/flame sensor where you can easily detect fire interfacing with gizduino boards mcu. By reading the Digital output of the sensor, 0 - if there's a on fire, 1 - no fire detected. With 1 meter range detection (max sensitive adjustment).

## **FEATURES:**

— GizDuino or Arduino Compatible

## **GENERAL SPECIFICATIONS:**

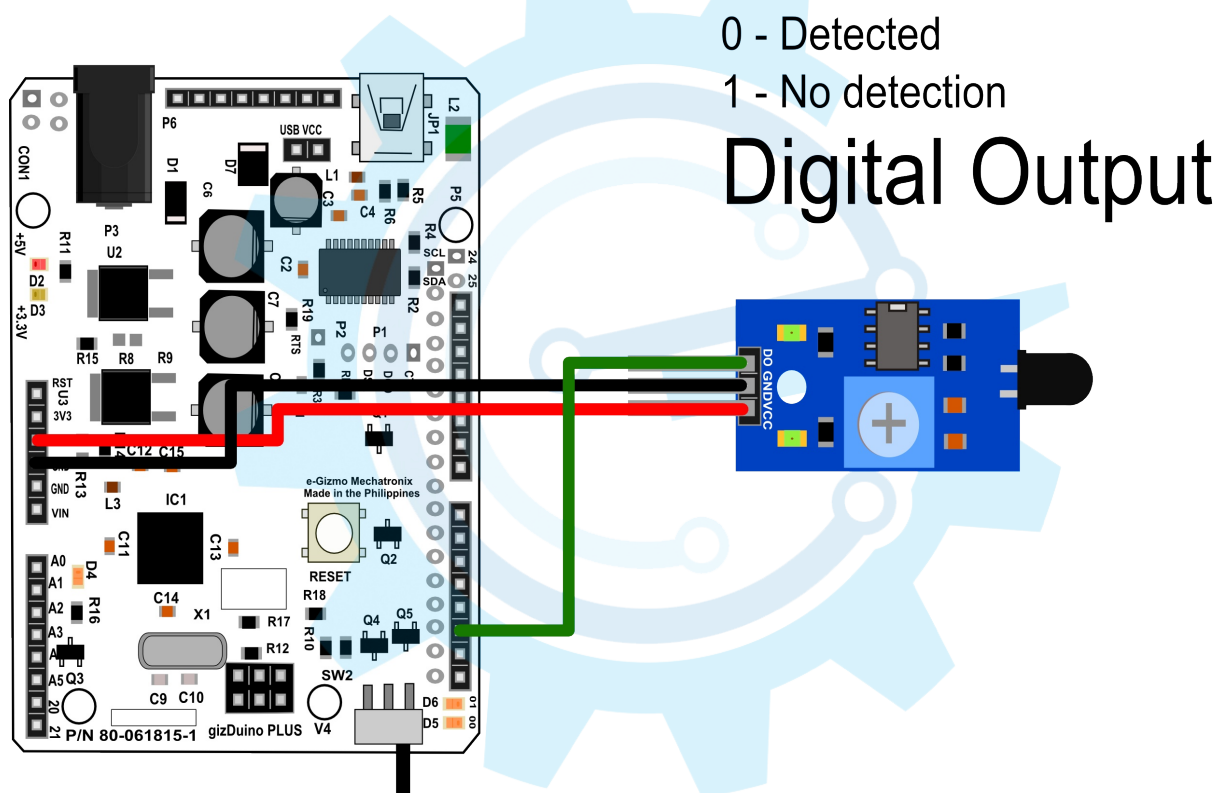
— Input Supply: +5VDC  
— Distance ranges: 1meter (max)  
Output: *Digital-0 (detected)*  
— PCB Dimensions: 32mm L x 14mm W



**Figure 1.** Major parts presentation of IR Flame sensor.

**TABLE 1.** Pin Descriptions

NAME	DESCRIPTIONS
VCC	Input Supply (+5VDC)
GND	Ground
OUT	Digital Output (0 - detected, 1 - No detection)



**Figure 2.** Sample application of Flame sensor to gizDuino PLUS version 4 with ATmega644P

TABLE 2. Wiring Connections		
FLAME SENSOR	to	gizDuino PLUS
VCC	-	+5V DC
GND	-	GND
OUT	-	Digital Pin 2

```
/*
  DigitalReadSerial
  Reads a digital input on pin 14, prints the result to the serial monitor

  This example code is in the public domain.
  */

// digital pin 14 has attached to it. Give it a name:
int Output = 14;

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
  // make the pushbutton's pin an input:
  pinMode(Output, INPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input pin:
  int Outputstate = digitalRead(Output);
  // print out the state of the button:
  Serial.println(Outputstate);
  delay(1);    // delay in between reads for stability
}
```