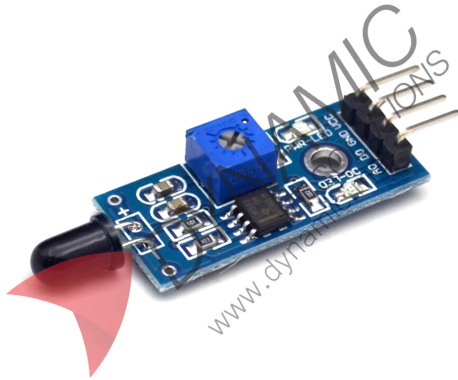


# Flame Detection Sensor Module 4 Pins



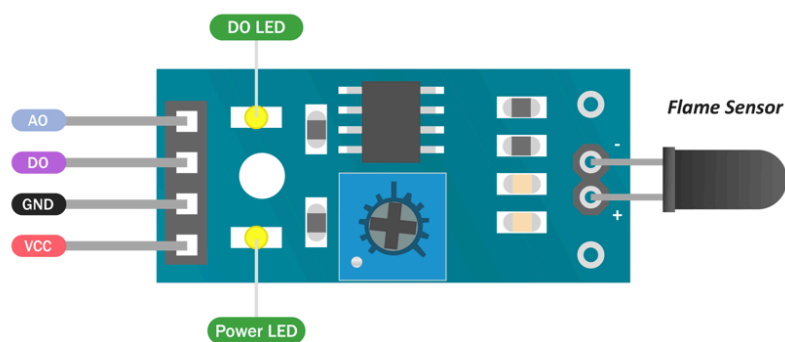
## **Features:**

The flame detection sensor module is a high-sensitivity infrared detector designed to respond to light in the 760 nm to 1100 nm range, particularly sensitive to flame sources. It incorporates the YG1006 phototransistor and LM393 comparator to deliver both digital and analog outputs. A built-in potentiometer allows for sensitivity adjustment, and onboard LEDs indicate power and signal status. With a 60° detection angle and compact design, it is ideal for fire detection and alarm systems requiring rapid response and microcontroller interfacing.

Specifications	
Operating Voltage	3.3 V to 5 V DC
Operating Current	~15 mA
Sensor Type	YG1006 Infrared Phototransistor
Comparator IC	LM393
Detection Spectrum	760 nm to 1100 nm
Detection Angle	Up to 60°
Output Type	Digital (DO) and Analog (AO)
Sensitivity Adjustment	Via onboard potentiometer
Indicators	Red LED for power, green LED for signal
Operating Temperature	-25 °C to +85 °C

### Pinouts:

Pin Name	Type	Description
VCC	Power Input	Supply voltage input (3.3V to 5V DC)
GND	Power Ground	Common ground
DO	Digital Output	Digital signal output: HIGH when flame detected
AO	Analog Output	Analog voltage proportional to IR light intensity



### Product Pictures:

