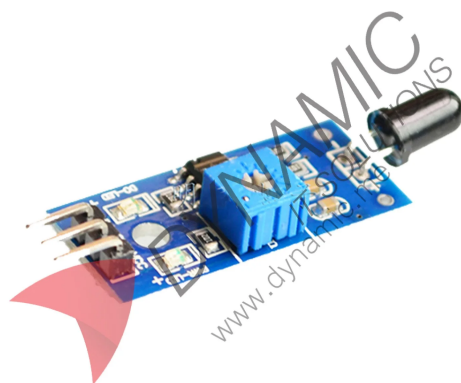


Flame Detection Sensor Module 3 Pins

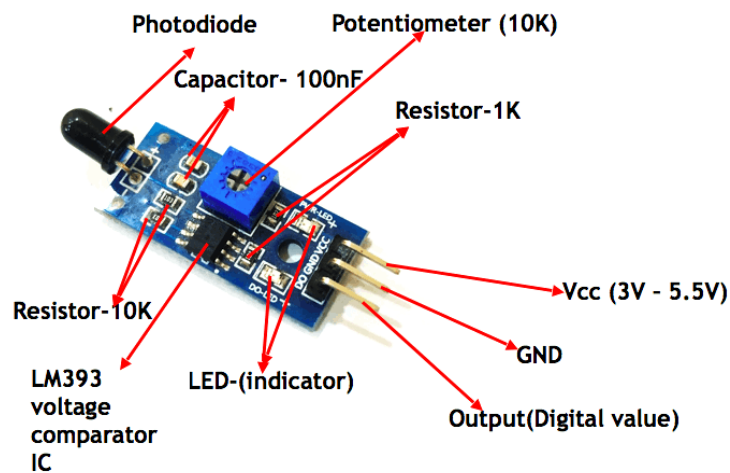
**Features:**

The flame detection sensor module is a compact and adjustable IR sensor designed to detect light in the 760 nm to 1100 nm wavelength range, with peak sensitivity to flame sources. It features a 60° detection angle and uses an onboard LM393 comparator to produce a clean digital signal output with strong drive capability. Sensitivity can be fine-tuned using the built-in potentiometer, making it suitable for flame alarm systems and fire detection in embedded applications.

Specifications	
Detection Wavelength	760 nm to 1100 nm (IR flame spectrum)
Detection Angle	~60°
Output Type	Digital (DO: 0 or 1)
Sensitivity Adjustment	Via onboard potentiometer
Operating Voltage	3.3 V – 5 V DC
Output Drive Capability	>15 mA
Comparator IC	LM393
Detection Distance (flame)	Up to 80 cm (for lighter flame; more for larger flames)
PCB Dimensions	32 mm × 14 mm
Mounting	Bolt hole for fixed installation

Pinouts:

Pin Name	Type	Description
VCC	Power Input	Module power supply (3V to 5V DC)
GND	Power Ground	Common ground
DO	Digital Output	Output signal: LOW when flame detected, HIGH otherwise



Product Pictures:

