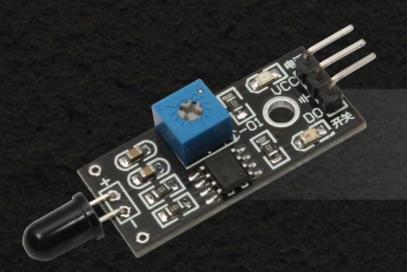


Product Manual



Flame Sensor

Version 1.0

Phi Robotics Research Pvt. Ltd. www.phi-robotics.com



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1 Introduction

The flame sensor is used to detect the presence of fire or other infrared source (Flame or a light source of a wavelength in the range of 760 nm to 1100 nm can be detected). It can be used in fire fighting robot or heat seeking robot.

2 Features

- Small and compact in size
- Adjustable threshold value
- 2 state binary output (logic high and low)
- Easy mounting with a screw hole.

3 Specifications

- Input operating voltage: 5V
- Logic high level: supply voltage (5V)
- Logic low level: 0V

4 Hardware Connections

The module has simple 3 pin male berg connector having Vcc, ground and output pin. The potentiometer is provided to adjust the threshold level. To read sensor status D0 pin should be connected to a GPIO pin. Figure 1 below shows the pin layout for flame sensor.

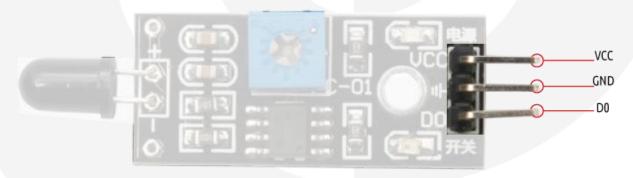


Figure 1 - Flame sensor pin layout

5 Pseudo Code





6 Reference

http://www.ti.com/lit/ds/symlink/lm393-n.pdf

