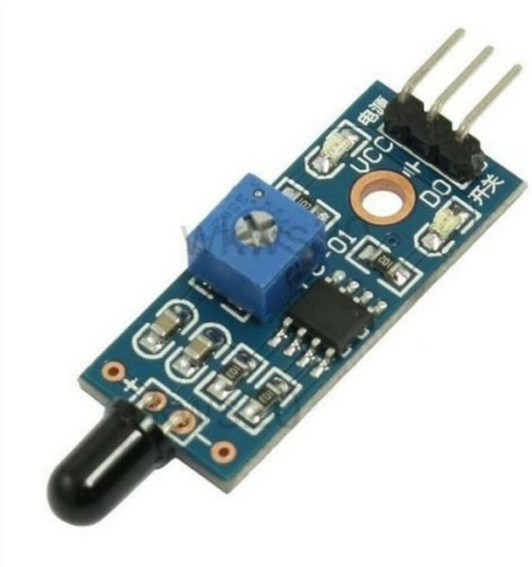
Flame Detector



Introduction

Another interesting sensor included in your kit is a flame sensor.

Similar to our proximity sensor, the flame detector is just an infrared photodiode. The theory is that flame emits high infrared radiation and we use that radiation to detect its presence using the photodiode.

Interfacing with Arduino

The circuit has 3 pins and the usage is very trivial. There is also a trimmer resistor onboard to adjust the sensitivity of the detector

VCC connects to 5V, GND to ground and DO is the output which can be connected directly to Arduino.

Once powered up, the output of the sensor is logic HIGH or 5V. However, if it detects infrared radiation from a flame (try putting a candle near) the output drops to 0V or logic LOW (best if you can show on a multimeter)

This sensor works on an inverted logic – meaning the output will be logic LOW when flame is detected and a logic HIGH when not. Always remember!

You can create a simple program at reads the state of the sensor using digitalRead()