

Flame-M Five Way Flame Detection Module User Instruction Manual

Features:

- Five-way flame sensor design,
- Wide detection range (greater than 120°)
- Ability to output digital signals (high and low levels) for easy use
- Ability to output analog signals (voltage signals) for more accurate measurement of signals, suitable for high precision applications
- All five outputs have status indicators, which makes great convenience in debugging or in actual operation.
- Digital output detection distance is adjustable, analog output sensitivity is adjustable, and design is more flexible
- 1% resistor design, more accurate signal output, suitable for high-precision measurement



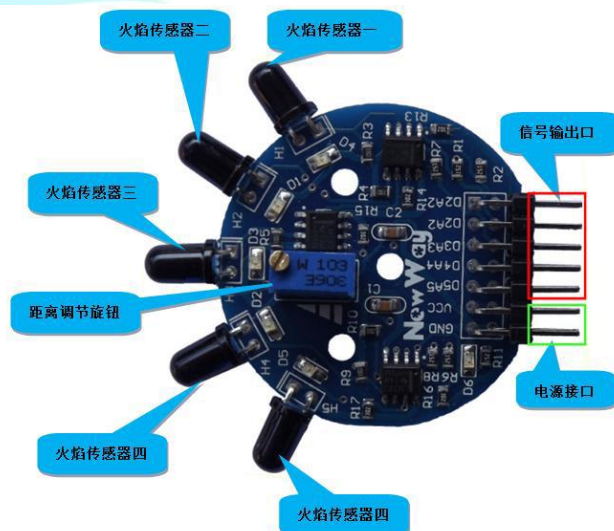
Occasion

- Three M3 mounting holes on the board for easy installation
- 3.3V-9V power supply, compatible with most single-chip systems
- SMD devices are all fully automatic welded by SMT process, and the quality of military products is trustworthy.

Module principle

- This product is capable of detecting the short range of the flame from 700-1100 nm.
- Wave near infrared (SW-NIR), which is output by an electrical signal (voltage signal).

Module interface description



Signal output (from top to bottom):

1. A1 (the first output port is marked as A2 on the module): The first flame sensor analog signal output port, the output voltage rises as the flame intensity increases.
2. D1 (the first output port is marked as D2 on the module): The first flame sensor digital signal output port, high level means there is flame (indicator is on), low level means no flame (indicator off)
3. A2: The second flame sensor analog signal output port, the output voltage rises as the flame intensity increases.
4. D2: The second way flame sensor digital signal output port, high level means there is flame (indicator is on), low level means no flame (indicator off)
5. A3: The third channel flame sensor analog signal output port, the output voltage rises as the flame intensity increases.
6. D3: The third way flame sensor digital signal output port, high level means there is flame (indicator is on), low level means no flame (indicator off)
7. A4: The fourth channel flame sensor analog signal output port, the output voltage rises as the flame intensity increases.
8. D4: The fourth channel flame sensor digital signal output port, high level means there is flame (indicator is on), low level means no flame (indicator off)
9. A5: The fifth channel flame sensor analog signal output port, the output voltage rises as the flame intensity increases.

10. D5: The fifth channel flame sensor digital signal output port, high level means there is flame (indicator is on), low level means no flame (indicator off)
11. Power interface (connected horizontally, just pick one):
12. VCC: module power supply positive input port, input range 3.3V-9V (relative to GND)
13. GND: Module power supply negative input port distance adjustment knob: For analog output: counterclockwise rotation (to indicate the rotation of the raised position), the sensitivity is increased, only a small input is required to get a high voltage output for the digital output: inverse Hour hand rotation (want to identify the rotation of the raised place), the detection increases, and the digital output can be obtained at a long distance.

Distance adjustment knob Note: 5 channels share one adjustment knob

Technical Parameters

- Detection wavelength: 700-1100 nm
- Detection distance: greater than 1.5m
- Supply voltage: 3V-9V

Precautions

- Sunlight has a certain influence on it, avoiding the use of sunlight when using it, in order to reduce interference,
- Heat the shrink tube at the sensor end.

Original Datasheet from the Chinese page NewWay



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