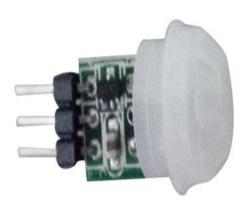
PIR Motion Detector Module



Item No.: SB312A



SB312A is the latest digital sensor module which developed for human body detection. A digital PIR sensor combined with a Fresnel lens is mounted on a compact size PCB, and resistance. IC is not needed any more. Digital output improve the performance.

Features and Electrical Specification

Compact size: 8*10 mm

Supply Voltage: DC3V~12V Quiescent Current :≤20uA

Voltage Output: High level signal 3V; Standby output is 0V

High sensitivity Delay time: 2.3S Blockade time:2.3S

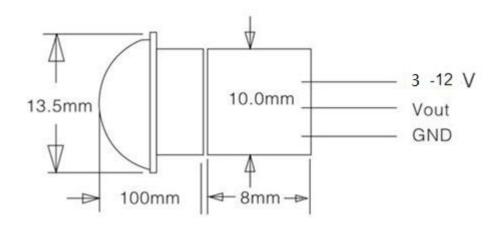
Trigger mode: Repeatable triggered Operation Temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$

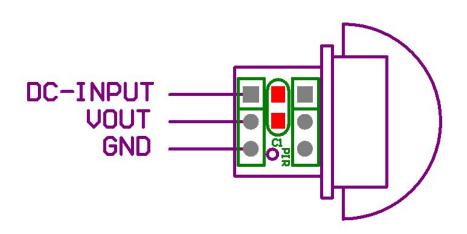
Infrared sensor: dual element, low noise, high sensitivity

Detecting length: 3~5m Detecting Angle:≥100°

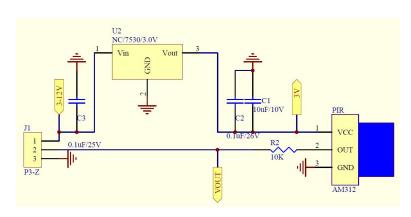
Lens information

Lens diameter: 13.5mm (default), detecting angle≥100°, detecting range<5M.





Schematic Diagram



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Application Note

The SB312A module only output High/Low level.

Funtions:

- 1. DC-INPUT: working voltage or input supply voltage (range is DC $3V\sim12V$)
- 2. VOUT: signal output pin. Output: High level signal 3V; Standby 0V.

Parameter Setting

Input voltage and Quiescent current

According to the input voltage, the current of module ≤20uA:

Note

Due to the high sensitivity of PIR sensor device, it is not recommended to use the module in the following or similar condition.

- A) in rapid environmental changes
- B) in strong shock or vibration
- C) in a place where there are obstructing material (eg. glass) through which IR cannot pass within detection area.
- D) exposed to direct sun light
- E) exposed to direct wind from a heater or air condition



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