

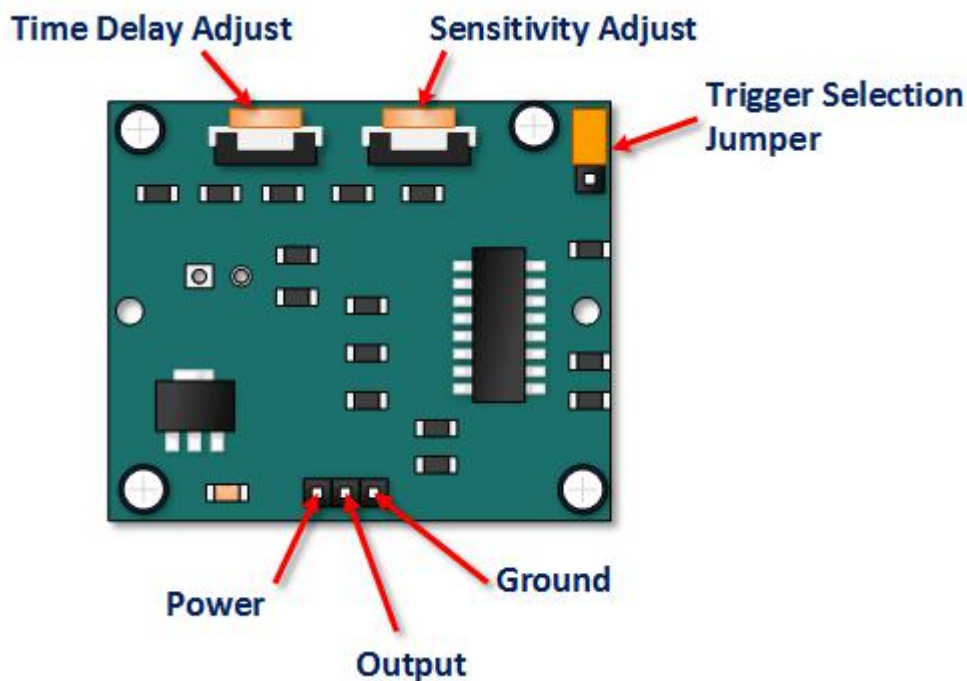
## HC-SR501 Passive Infrared (PIR) Motion Sensor



This motion sensor module uses the LHI778 Passive Infrared Sensor and the BISS0001 IC to control how motion is detected.

The module features adjustable sensitivity that allows for a motion detection range from 3 meters to 7 meters, also includes time delay adjustments and trigger selection that allow for fine tuning within your application.

### HC-SR501 Pin Outs and Controls



| Pin or Control           | Function   |
|--------------------------|--|
| Time Delay Adjust        | Sets how long the output remains high after detecting motion.... Anywhere from 5 seconds to 5 minutes. |
| Sensitivity Adjust       | Sets the detection range.... from 3 meters to 7 meters   |
| Trigger Selection Jumper | Set for single or repeatable triggers.   |
| Ground pin               | Ground input   |
| Output Pin               | Low when no motion is detected.. High when motion is detected. High is 3.3V                            |
| Power Pin                | 5 to 20 VDC Supply input   |

### HC SR501 PIR Functional Description

The SR501 will detect infrared changes and if interpreted as motion, will set its output low. What is or is not interpreted as motion is largely dependent on user settings and adjustments.

### Device Initialization

The device requires nearly a minute to initialize. During this period, it can and often will output false detection signals. Circuit or controller logic needs to take this initialization period into consideration.

### Device Area of Detection