

PIR Sensor Overview

- This PIR (Passive Infra-Red) sensor detects movement by monitoring changes in the infra-red (IR) signature (ie., heat) that humans give off. It is not effected by the movement of things like tree limbs or flags as there is little or no IR signature to detect.
- The effective range of this device is about 20' – this range can be effected by the ambient temperature, size of the target, etc
- The sensor requires 5V to operate and will output a 3.3V level on the “OUT” pin when movement is detected.
- Each time the sensor is powered on it will go through a ‘calibration’ period of between 20 and 45 seconds. During this time the ‘output’ signal may go high several times – this is normal. It is best if during this calibration period there is no motion to be detected.

