

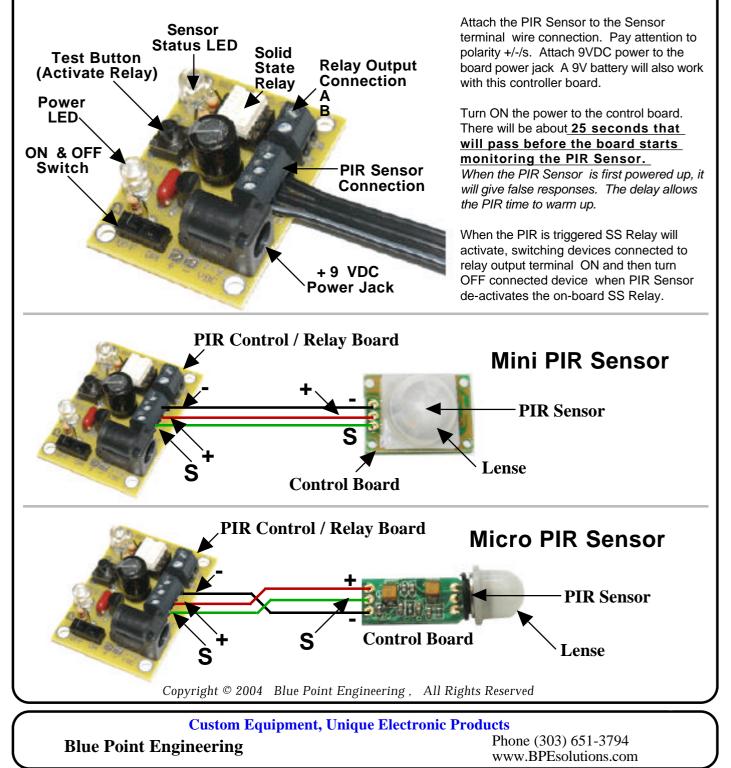


# **PIR Sensor Adapter Board**

Controller

#### Description:

This board was designed to allow the control of a solid state relay with a PIR sensor. When the PIR is activated, the on-board microSS relay will come ON and turn OFF when the PIR Sensor is de-activated.







### **PIR Sensors**

#### Controller

#### **General Description:**

The PIR element is a pyroelectric sensor module (PIR), developed for human body heat detection. The PIR detector sensor combine with a fresnel lens is mounted on a compact PCB together with an analog IC, and limited electronic components to form the control circuit.

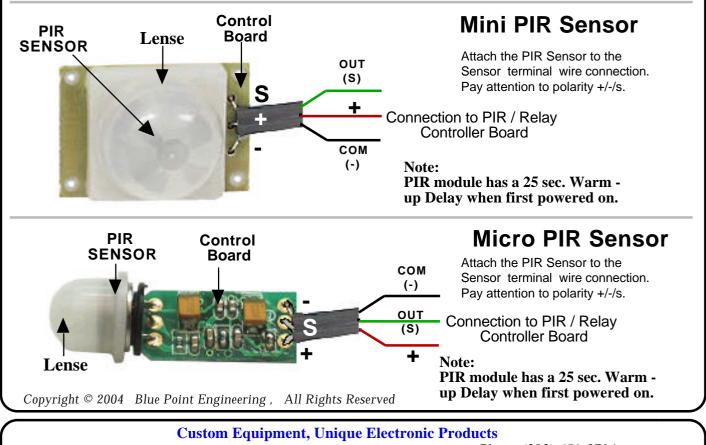
Power, (+), (-) Sensor / Relay connections. (5vdc Sensor Power)

9 Vdc power required for control board electronics. Solid State micro Relay built-on board .(Com. N.O. Contacts - wire outputs) Relay Contact Outputs rated at 2 Amp @ 1-24 Vdc.

#### Note: PIR module has a 25 sec. Warm - up Delay when first powered on.

#### Sensor Data:

Operation Voltage 5Vdc @ 300 mAmp. Operation Current 400mA at 5V Output TTL. PIR Input Gain 68dB. Output Pulse Width 0.5 sec min. - Pulsed Operation Temperature -20 Deg C to +50 Deg C.



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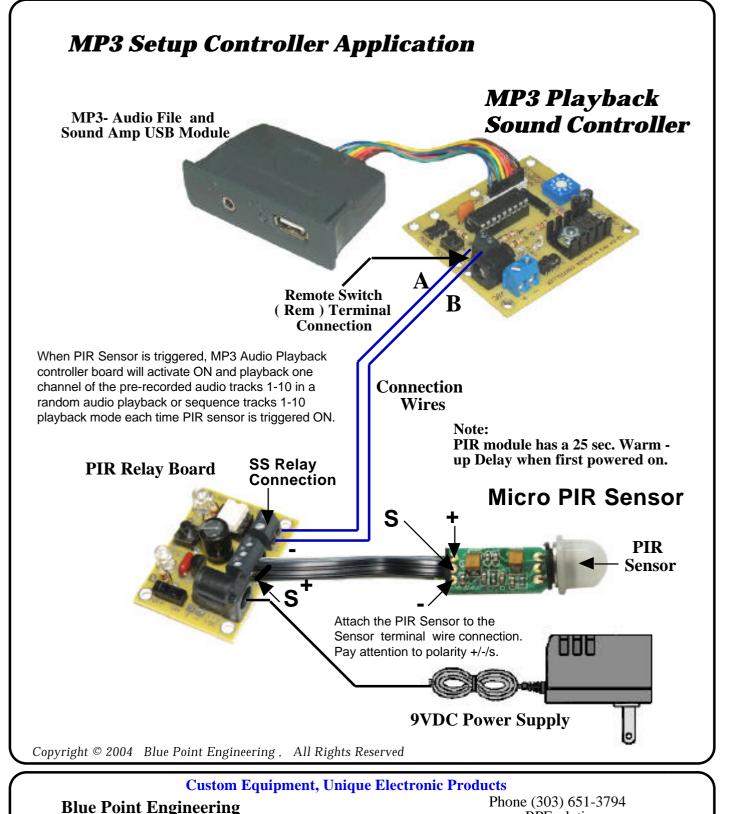




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**PIR Sensor Application** 

Controller



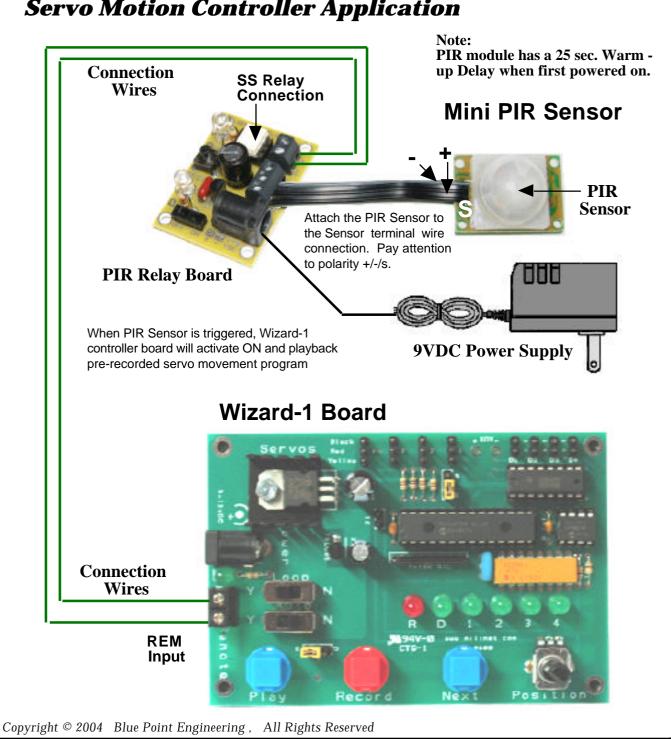




Controller

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# **PIR Sensor Application**



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### **Servo Motion Controller Application**





Controller

# Adjustment: Use black paint across the PIR dome to control the sensativity. **PIR Sensor** Adjustment: Place the PIR sensor behind a slot for sensitivity control. **PIR Sensor Black Paint** Window Adjustment: Place the PIR sensor inside a black tube for sensitivity control. PIR Sensor Black Tube Adjustment: Place the PIR sensor behind a cover to hide it **Sensor View Window** Window size for sensitivity control. Copyright © 2004 Blue Point Engineering, All Rights Reserved

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