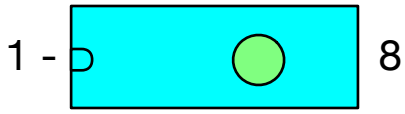
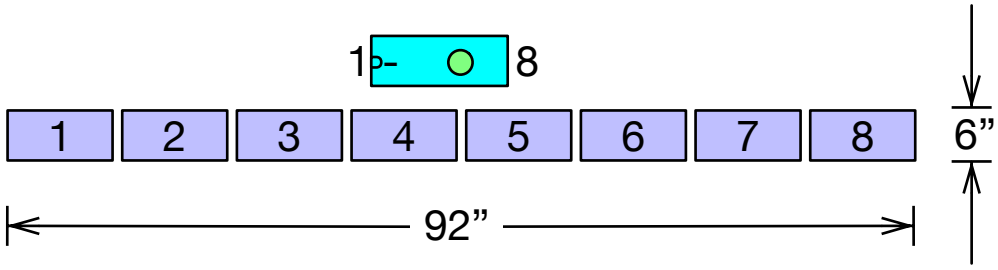
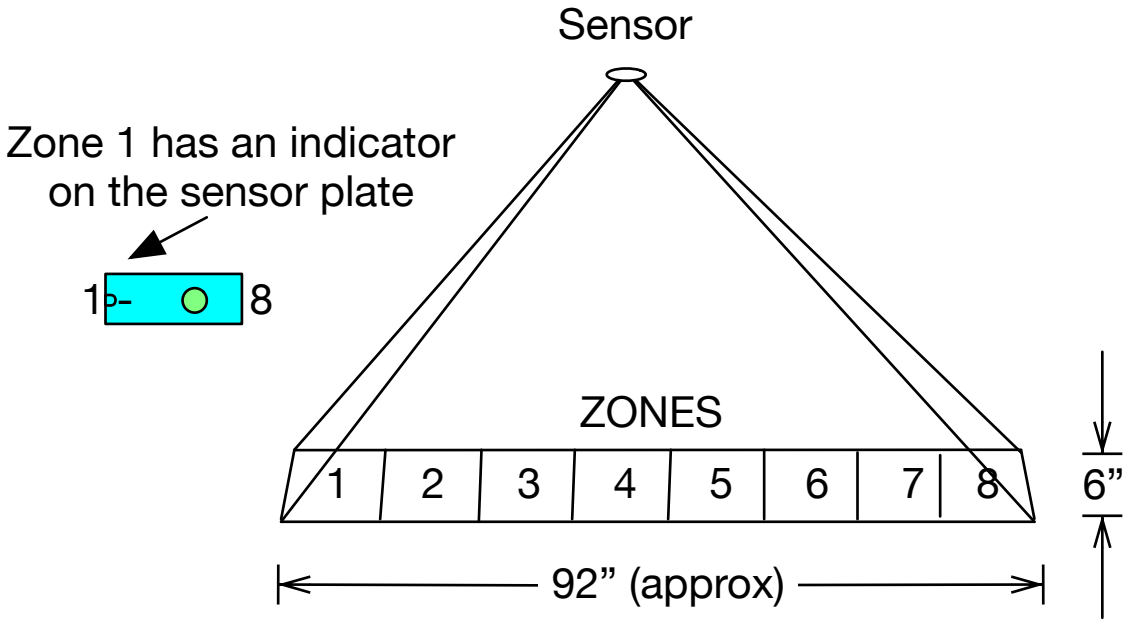
DADO DOOR
Ceiling Mount Motion/Safety Sensor

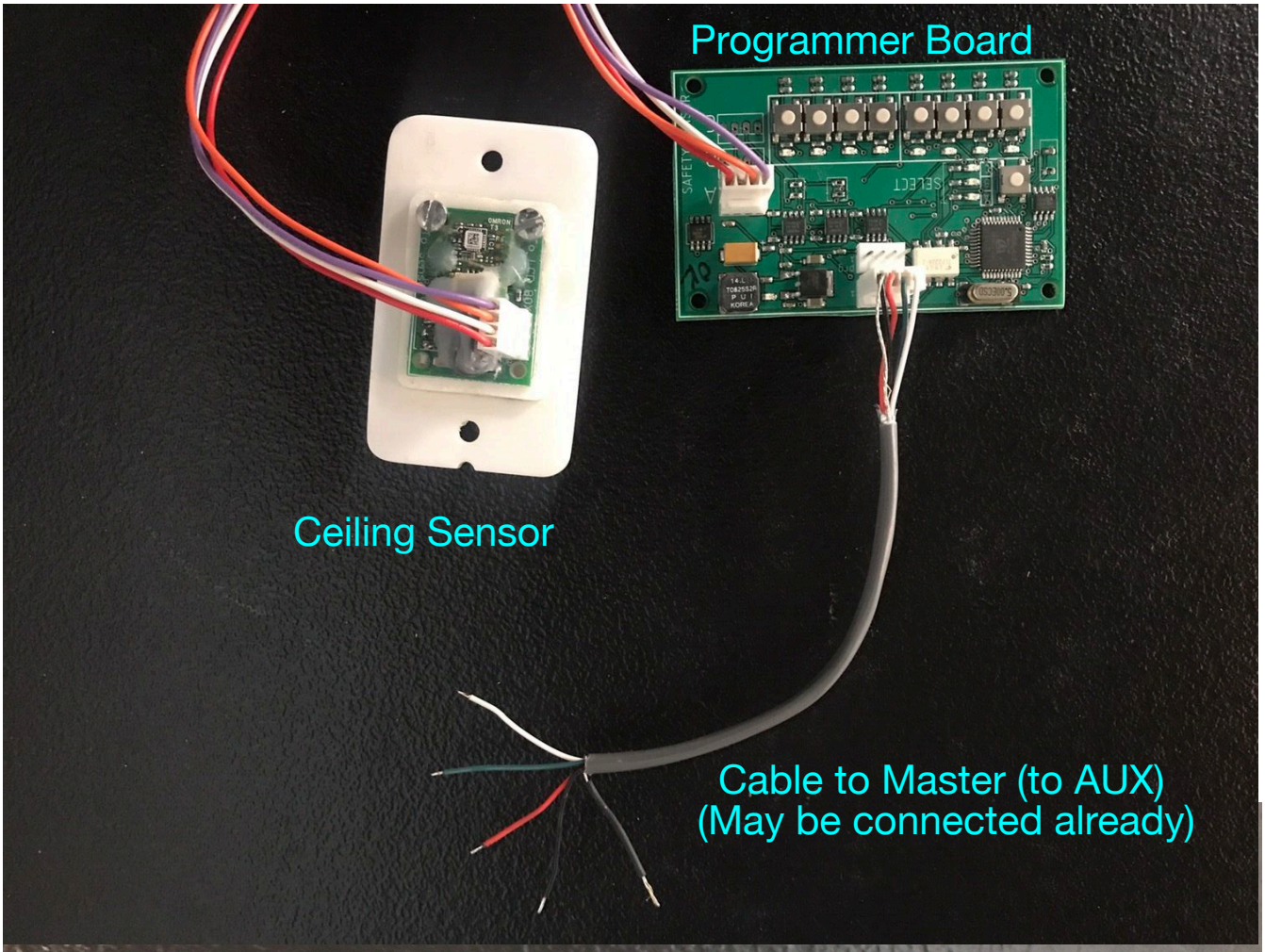


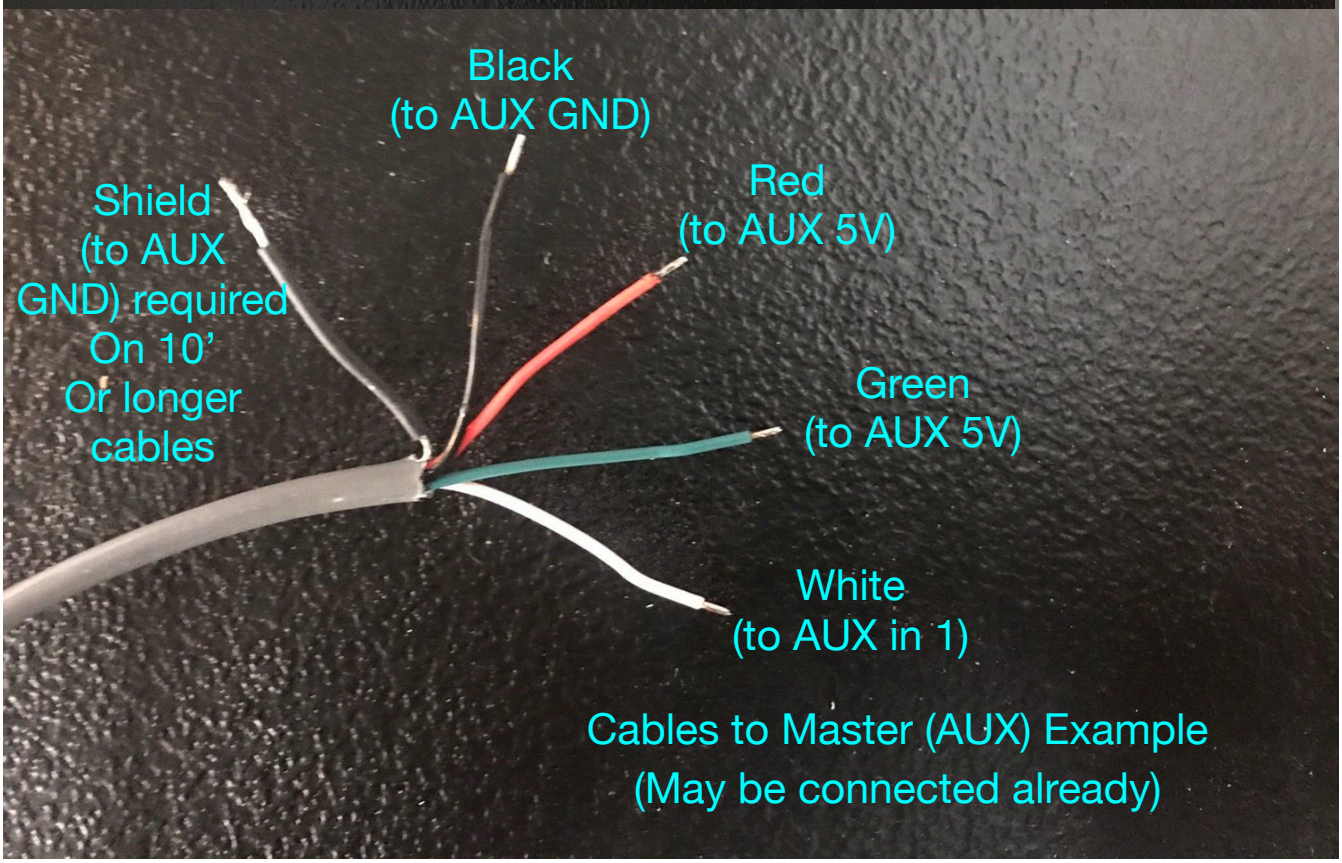
The Safety Sensor detects changes in 8 zones on the floor. The Programmer Module allows you to select any of the 8 zones for triggering. The Sensor can be used a as a motion sensor to trigger the door to open, or as a safety sensor to cause the door to retract if someone passes through a zone while the door is closing. The faceplate has an indicator which Marks Sensor 1 for easy reference. Mount the sensor based On how you want to detect motion/safety foot traffic.

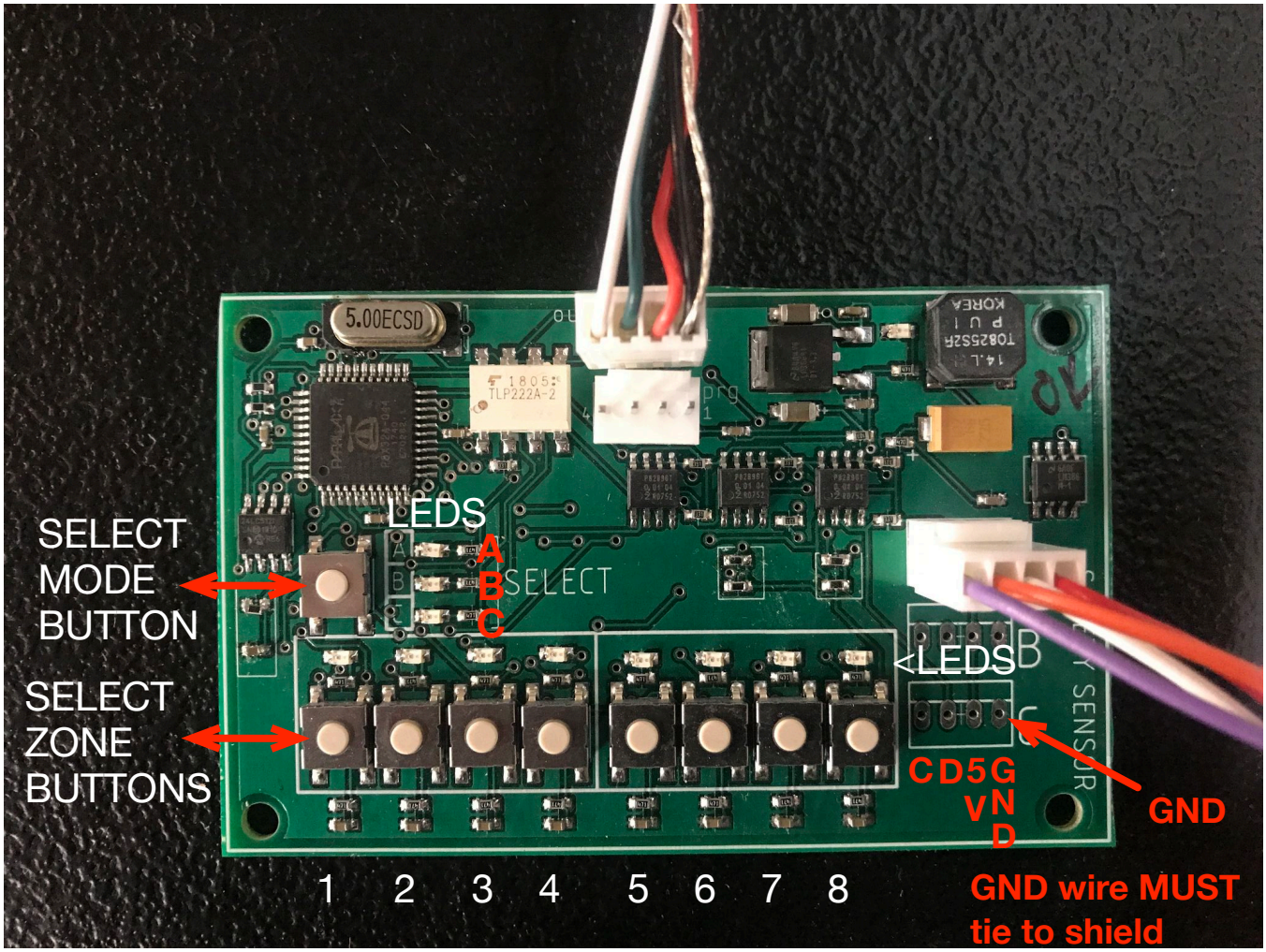




Zone sizes are approximate based on 8’ Ceiling

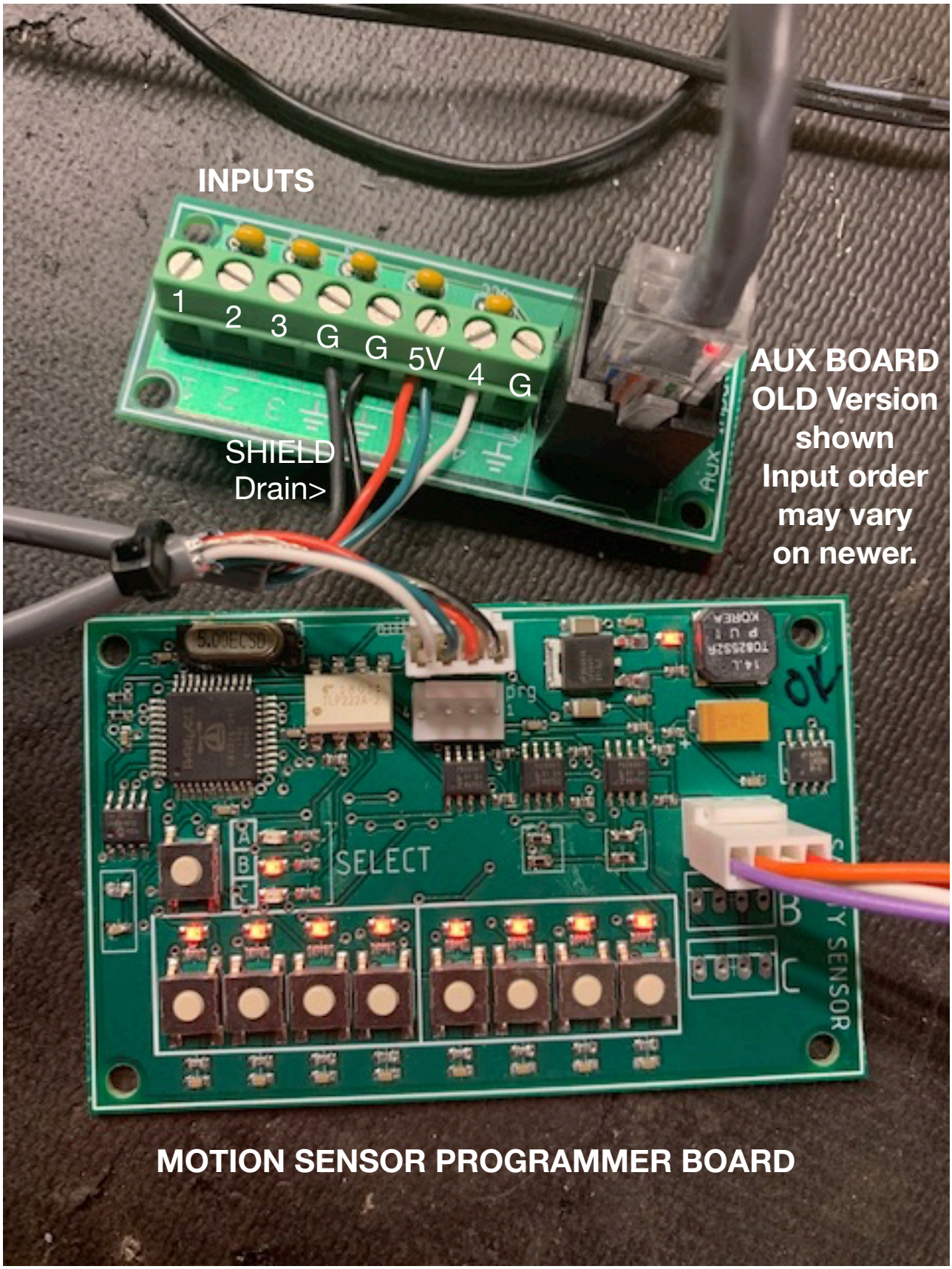

Programmer Board
Ceiling Sensor
Cable to Master (to AUX)
(May be connected already)


Black
(to AUX GND)
Red
(to AUX 5V)
Shield
(to AUX
GND) required
On 10'
Or longer
cables
Green
(to AUX 5V)
White
(to AUX in 1)
Cables to Master (AUX) Example
(May be connected already)

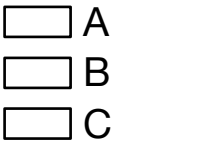


To view activity only on Sensor A, press the SELECT MODE button to make the A LED turn on solid.
To Select the zones to use for detection, Press the SELECT MODE button again so that the Select LED “A” Flashes. Press Any of the 8 Zone Buttons to choose the zone(s) you want to use As triggers(1 - 8)
Repeat the Mode Select Button To move to Sensor B, and C. Finally, when all 3 select LEDS are lit up, this is the sensor ON/OFF mode.
Press button 1 to select/deselect if sensor A is on or off.
Press button 2 to select/deselect If sensor B is on or off.
Press button 3 to select if sensor C is on or off.
*Turn off any Sensor that is not in connected.

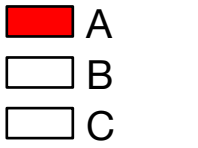
If none of the 3 Select LEDs are lit, you can view ALL 3 sensor activity On the 8 LEDs at once.


INPUTS
1
2
3
G
G
5V
4
G
SHIELD
Drain>
AUX BOARD
OLD Version
shown
Input order
may vary
on newer.
SELECT
A
B
C
MOTION SENSOR PROGRAMMER BOARD

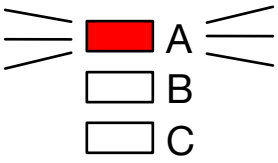
LED Mode Status



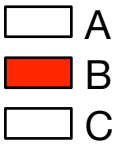
All LEDs OFF = RUN MODE.
View all motion on the LEDS.
Put in this mode for normal operation



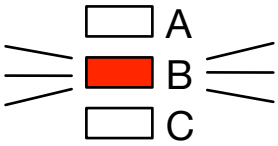
Solid RED = View Activity on A ONLY



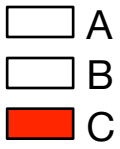
Blinking RED = Select Zones for A using buttons



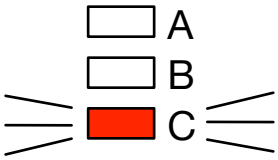
Solid RED = View Activity on B ONLY



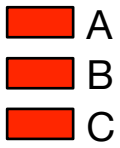
Blinking RED = Select Zones for B using buttons



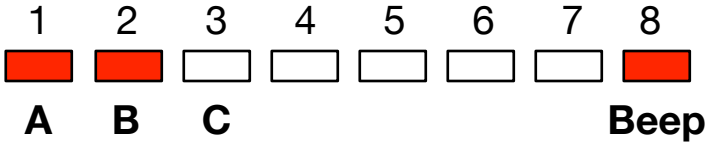
Solid RED = View Activity on C ONLY



Blinking RED = Select Zones for C using buttons

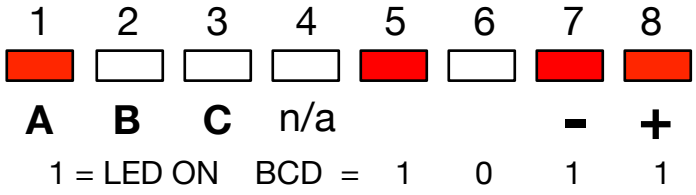


All SOLID RED =
Press Button 1 to Enable/Disable Sensor A
Press Button 2 to Enable/Disable Sensor B
Press Button 3 to Enable/Disable Sensor C
Press Button 8 to Enable/Disable Beeping



Sensitivity Adjustment

(Example Sensor A set to 1011 = 11)



0001 = 1	1000 = 8
0010 = 2	1001 = 9
0011 = 3	1010 = 10
0100 = 4	1011 = 11
0101 = 5	1100 = 12
0110 = 6	1101 = 13
0111 = 7	1110 = 14
	1111 = 15

The sensitivity can be adjusted on all 3 sensors independently. While the SELECT LED's are ALL OFF, press and HOLD button 1, 2, or 3(A/B/C). The LED above the button will light WHILE holding the button. Button 8 is "+" and will increase the sensitivity. Button 7 is "-" and will decrease the sensitivity. The value range is 1-15 and is displayed on LED's 5-8 in BCD (Binary Coded Decimal) format. Sensitivity of 1 means the sensor triggers on very small changes in temperature. Sensitivity of 15 means the sensor requires much greater changes in temperature to count as a trigger.

OPERATION: The sensor operates based on watching the average infrared temperature. The sensor is not suited for outdoor use or areas where the sun may cause the floor to become hot. The algorithm works
by a running average of temperatures scanned in the sensor many times a second. If there is a sudden increase in temperature the controller closes a contact which is connected to the AUX INPUT board and tells the door to open(typical case).

NOTE1: Since the system works by detecting a sudden increase in Temperature, if there is an air vent near the sensor which can blow hot Air over the sensors, you may get false triggers. Likewise, if there is Cold air blowing over the sensors and then the cold air stops abruptly, this can trick the sensor into thinking there was a valid increase. Be sure to mount the sensor so that there can be no directly flow of air from an AC system.

NOTE2: The algorithm takes 15 seconds to average what it is detecting, this means that if a person walks under the sensor and stands for 15 seconds, then persons temperature would become part of the "running average" and the system will ignore the person after 15 seconds until they move again. This prevents a stuck condition.