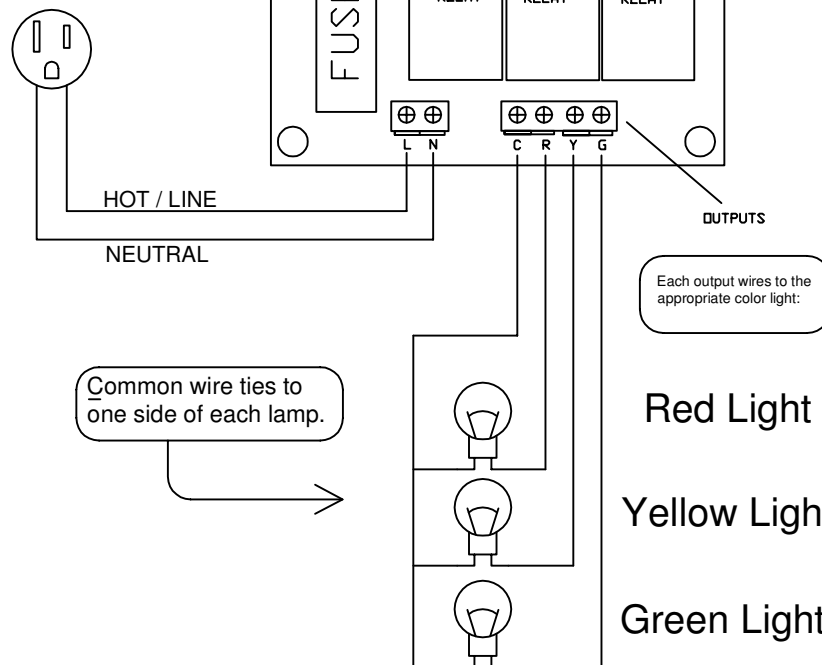


120 VAC POWER



Mount the unit using standard mounting procedures.

When mounting your new board, use #4 size hardware. The smaller that will work, the better. 4-40 screws /nuts / stand-offs work the best.

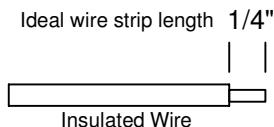
Make sure the screw heads and/or washers/nuts/etc are **CLEAR** of any traces (front AND back) near the holes on the circuit board. These are the lighter green color lines and "patches" on the board.

Make sure the bottom/back of the board (solder side) is clear of any surface by a minimum of 1/4", and does not come in contact with anything metal. This minimizes anything that may short against one of the solder pads on the bottom of the board, damaging the electronics components.

When stripping the insulation off the wires to be attached to the screw-terminals, make sure there is no bare wire exposed to short against each other accidentally, **especially the C and R terminals**. See recommended strip length in the instructions.

Before wiring the lights to the controller, each light should be manually tested by applying power to the common wire and each lamp-wire to confirm there are no shorts and that each bulb is wired correctly and functioning.

Make sure **all screw terminals are securely tightened** so wires are not loose in screw-connections.



PROGRAMMING THE REMOTE

The Universal IR remote comes pre-programmed and tested. If the code has been lost, the instructions are as follows:

Make sure control board is powered up and correctly wired to lights.

Step 1> Press the TV button on the remote.

Step 2> Press and hold SET button until led on remote blinks twice.

Step 3> enter code: 0 1 7 8

If performed correctly, the LED will blink twice.

Make sure 'IR SENSOR' can "see" the remote for effective reception of the IR light signals.

SET-LIGHT-TIMES PROCEDURE for AUTO-SEQUENCE MODE

To set the auto sequence times, aim the remote at the IR pick-up located at the end of the pig-tail and press the "0" button three times.

The signal will turn off for 2 seconds and then begin the time-set procedure with the GREEN light lit.

Allow the desired time for the green light to pass, and then press the CH+ button (channel UP). The yellow light will come on.

Allow the desired time for the yellow light to pass, and then press the CH+ button. The red light will come on.

Allow the desired time for the red light to pass, and then press the CH+ button.

The three unique time settings are then stored in "safe" memory, and time setting is complete. The light will begin to sequence in AUTO-SEQUENCE mode, repeating the time durations that were preset.

Auto-sequence mode

Auto-sequence mode is when the signal sequences automatically from green to yellow to red. The board always starts in this mode with the green cycle active when power is first applied to the board.

Manual Mode

Manual mode allows the user to manually turn on any of the three outputs (red, yellow or green), or set one of three Caution-modes:

- Button #1 turns on the GREEN light output
- Button #2 turns on the YELLOW light output
- Button #3 turns on the RED light output

Caution modes:

- Button #4 starts Flashing Red Caution mode
- Button #5 starts Flashing Yellow Caution mode
- Button #6 starts Alternating RED and YELLOW back and forth

Pressing any of these buttons puts the board in Manual-Mode which means the light will stay lit (or flashing if in a caution mode) and not change to the next light automatically. It will stay like this until the board is put back into AUTO SEQUENCE mode by pressing the CH+ (channel UP) button.

Pressing the red PWR (power) button turns the controller ON and OFF

Once the times are set, the remote is no longer needed if operating in AUTO-SEQUENCE MODE. The remote is only needed to change the various MANUAL MODES, or to program/set sequence times.