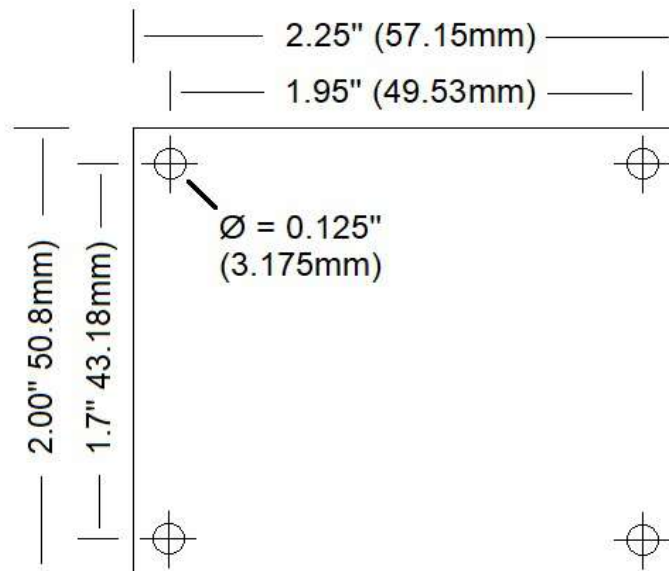


The traffic signal controller unit is designed for hobbyists who wish to give a lifelike appearance to traffic signals, whether it be a desktop display or a fixed model in a diorama such as a model railroad. The unit will function properly on a DC power supply providing at least 6 volts but no more than 16 volts. Ideally, the unit is intended to be powered off the Auxiliary DC power supply available with most model railroad supply controllers, but it can also be powered by a simple DC power pack, 9-volt battery or similar DC source.

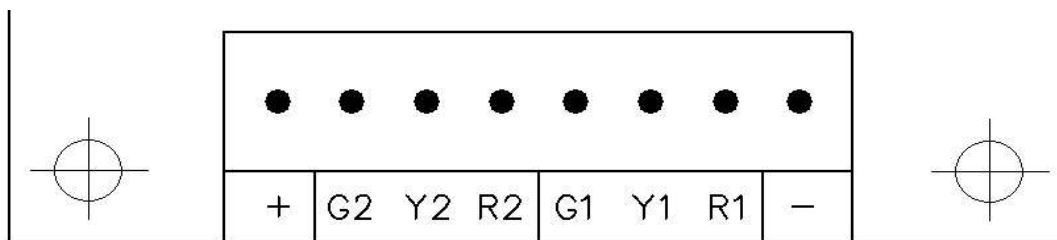
The unit's board dimensions are 2 inches (50.8mm) by 2 ¼ inches. (57.15mm)

The unit is also equipped with non-conductive stud mounting holes at each corner for the purpose of securing the controller unit to a control panel or any location suitable for secure placement.

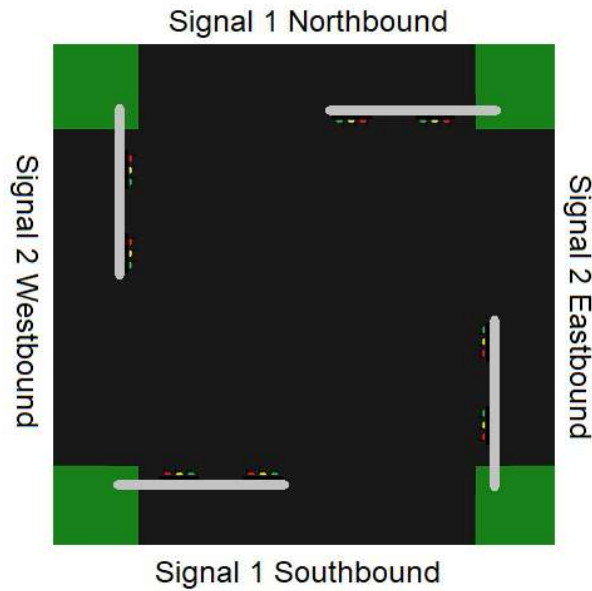
The stud holes are 1/8 inch (3.175mm) in diameter and are spaced 1.95" (49.53mm) in length by 1.7" (43.18mm) in width center-to-center, which is 0.15" (3.81mm) within the edges of the unit.



The wire terminals are positioned on the edge of the unit. They are capable of securing a single wire up to AWG 14, two wires up to AWG 18, three wires up to AWG 22. The unit has markings indicating their designation. The power supply inputs are on the far ends of the terminals, while the outputs are placed in between them.



The device output is intended to supply power to a model traffic signal with a Common Cathode. If the signal device uses LEDs, you will be required to include a current-limiting resistor in series with each LED. However the device will also power incandescent bulbs, up to 250 mA (3 watts at 12 volts) each. Ideally, you can power multiple LEDs or incandescent lamps in parallel in each channel, for multiple lanes and for opposing traffic lanes.



The following schematic exhibits the suggested connection between the Unit and the signals.

