



Signal-Tech TCIL LED Series Traffic Control Instruction Manual

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Low Voltage ONLY!

This sign operates within an input range of 12VDC to 24VDC.

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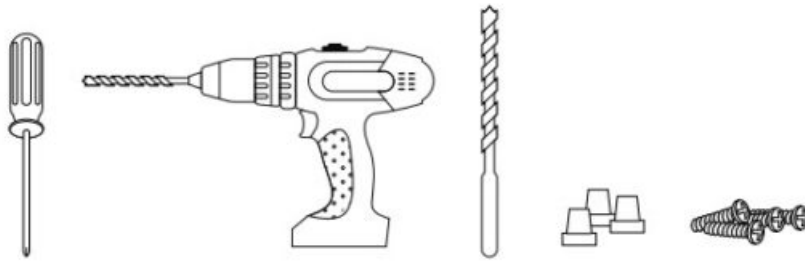
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What You Need:


Phillips Head Screw Driver
Drill with a 5/16" and 7/8" drill bit (not supplied)
(4) Appropriate Wall Fasteners (not supplied)

Wire Connectors
(not supplied)

Control Switch
(ordered separately)

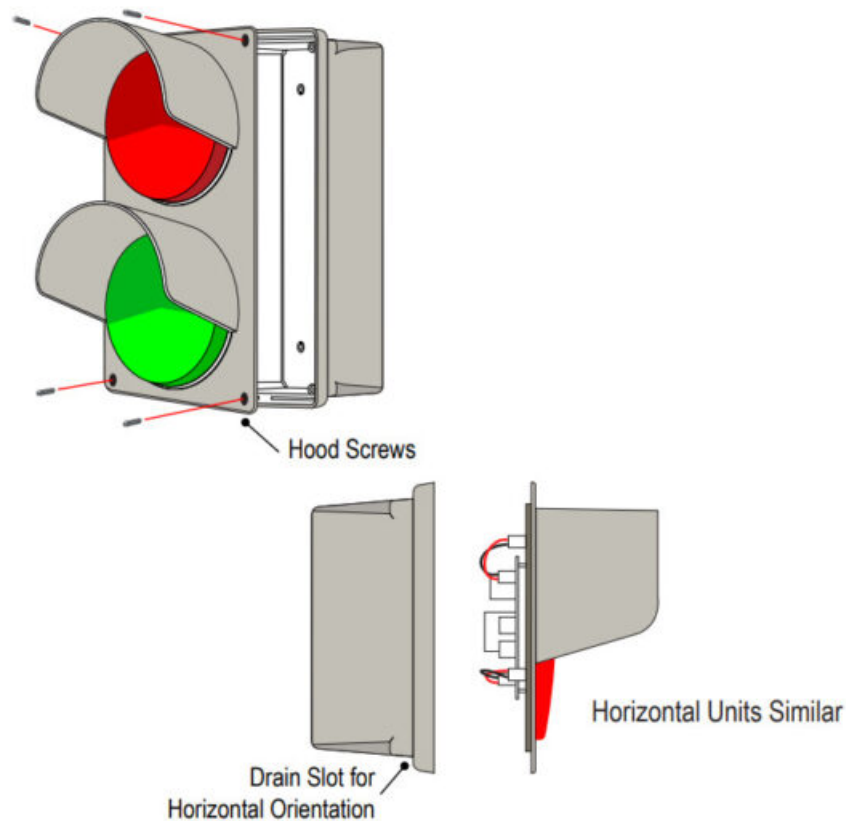


 Always turn off the power prior to installation.

 Be sure any metal debris cleared out of the cabinet.

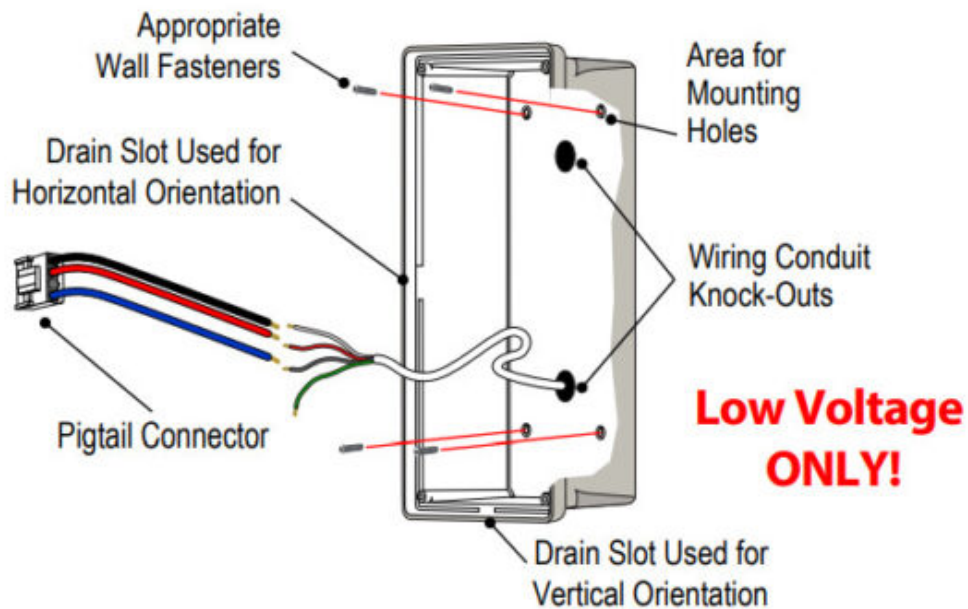
Installation Steps

1. Remove the hood from the housing by unscrewing the four retaining screws on the front of the unit.
2. Use a 5/16" drill bit to drill (4) four holes in the housing for mounting fasteners and a 1/4" drill bit for the conduit.

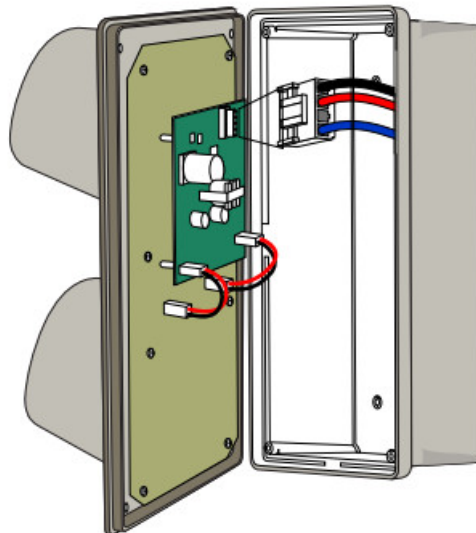


3. For Surface Mounting

The housing **MUST** be oriented correctly, molded into the back of the housing locate the HORIZONTAL TOP or the VERTICAL TOP, and orient accordingly. There are drain slots molded into the bottom of each orientation. Mount the housing securely to the surface using four appropriate fasteners (not supplied).



4. Disconnect the wiring pigtail from the circuit board to make wiring connections, see the diagram on the back
5. Plug the pigtail into the circuit board and replace the hood and the four retaining screws removed in step 1.

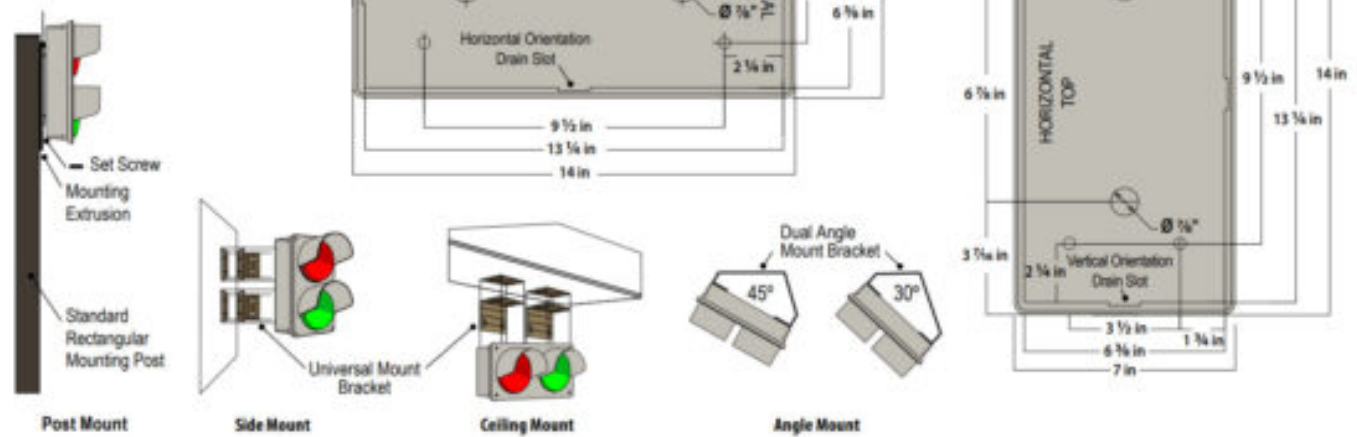


Note: Do not overtighten fasteners or distort the back panel.

Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electric Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

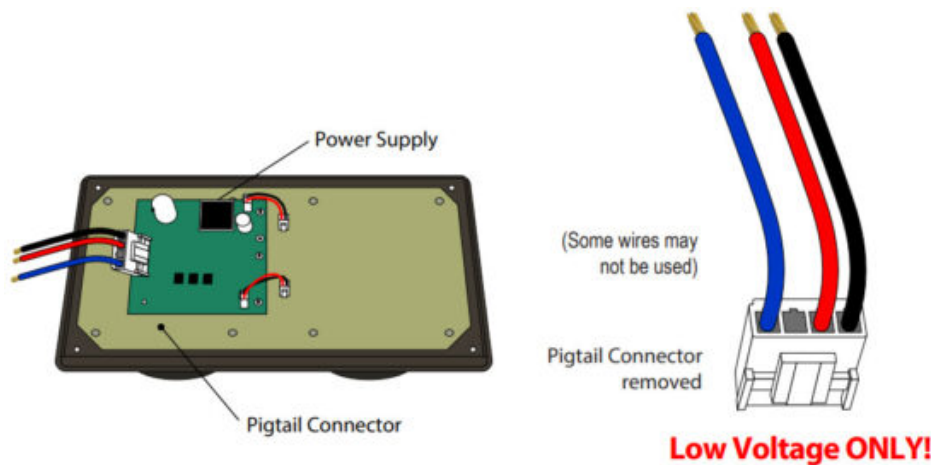
Wall Mounting Dimensions

Mounting Options



Making your Wiring Connections

1. To make your electrical connections easier, gently unplug the supplied wired pigtail connector from the power supply.

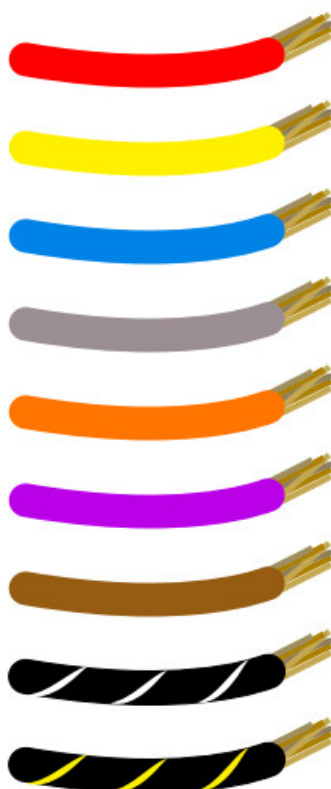


2. With your incoming power already running through the mounted back you can easily make all connections to the pigtail using wire connectors. (See table below for general wiring guidelines)
3. Plug the pigtail connector back into the power supply to finish off the electrical part of your installation. The connector is “keyed” and can only be installed in one orientation
4. You’re done with the electrical! Time to close up the sign by pushing the cabinet closed and replacing the two screws you removed from the bottom of the cabinet.

Note: Make appropriate wiring connections per local code.

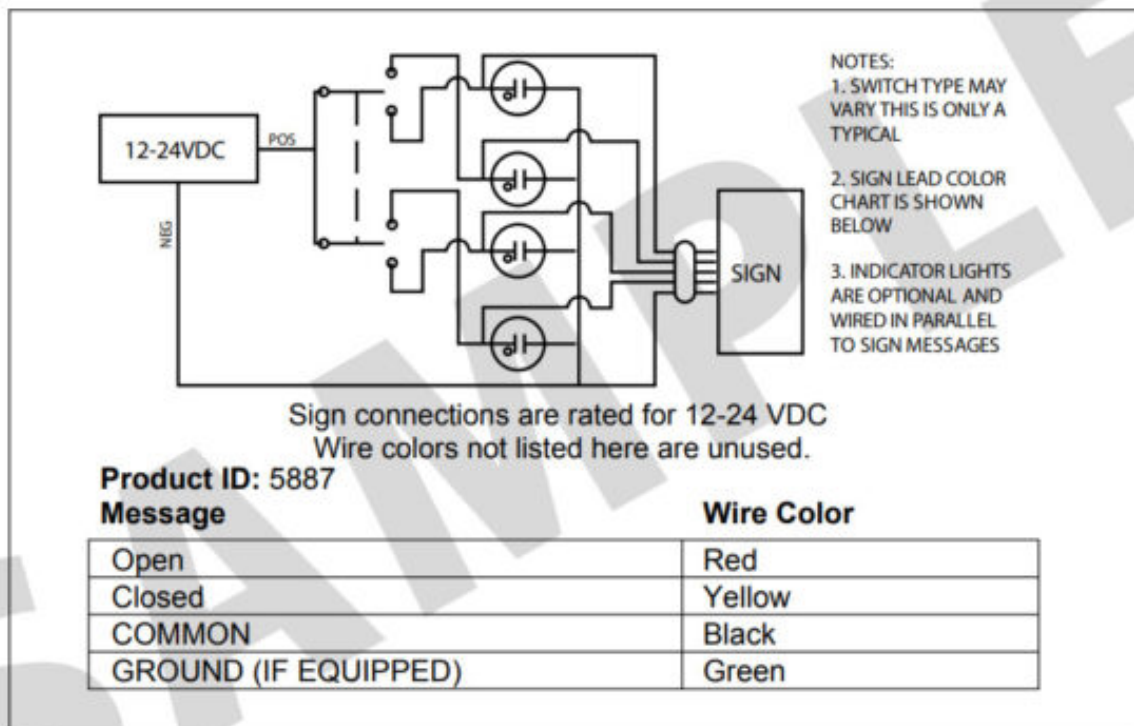
General Wiring Guidelines*

Number of Messages	Typical Wire (Lead) Colors
Message 1	Red
Message 2	Yellow
Message 3	Blue
Message 4	Gray
Message 5	Orange
Message 6	Purple
Message 7	Brown
Message 8	Black with White Stripes
Message 9	Black with Yellow Stripes



*Common is solid Black and Ground (if equipped) is solid Green.

Wiring Label Sample for a typical 2 Message OPEN | CLOSED Sign



Note: Refer to the wiring label inside the sign for the specific instructions on wiring your sign. Some wires may not be used.

Note: Make appropriate wiring connections per local code.

Note: Any holes drilled into the sign cabinet MUST be sealed. Failure to do so may cause a short and void warranty.

Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electric Code and/or other applicable local codes.

This includes proper grounding and bonding of the sign.

Note: This unit contains a built-in CLASS 2 LED driver.

WARNING – Risk of Fire or Electric Shock.

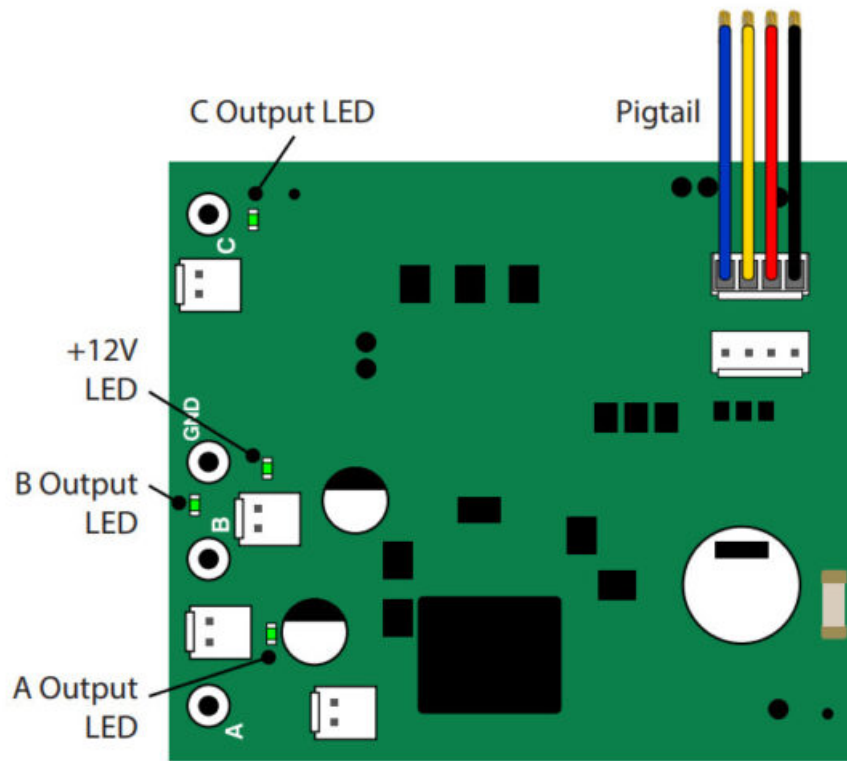
Do Not interconnect output terminations.

AVERTISSEMENT – Risque d'incendie ou de choc électrique. Ne pas interconnecter less terminaisons de sortie.

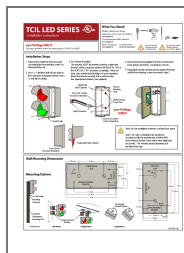
Normal Operation

There are four (4) LEDs on the power supply located close to the connector with the Red and Black wires. These LEDs marked +12V LED, A Output, B Output, and C Output, will illuminate green when 12-24VDC power is applied to the Pigtail.

Check the LED on each power supply since there may be more than one power supply per message.



Documents / Resources



[Signal-Tech TCIL LED Series Traffic Control](#) [pdf] Instruction Manual
 TCIL LED Series Traffic Control, TCIL, LED Series, Traffic Control