

Signal-Tech TCIL Series AO-200966 LED Traffic Control Indicator Signals Instruction Manual

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TCIL LED SERIES



Installation Instructions

Voltage

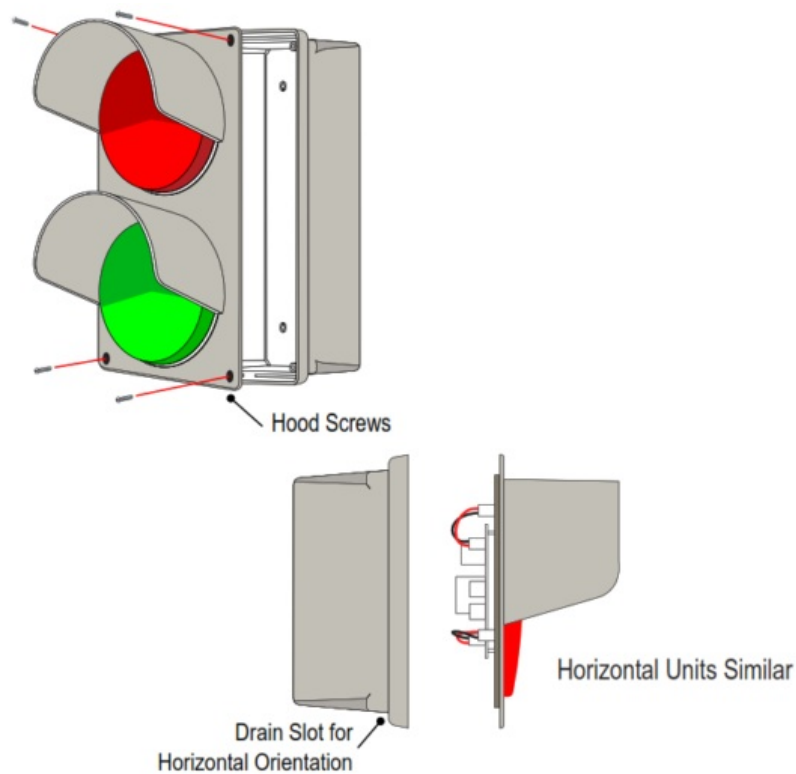
This sign operates within an input range of 120VAC to 277VAC.

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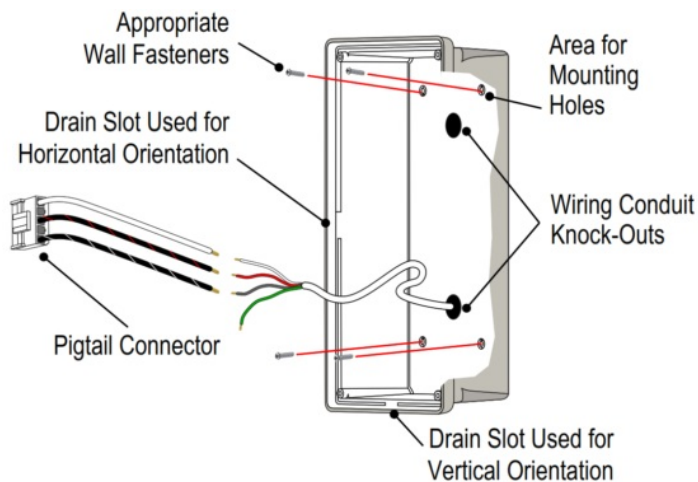
Installation Steps

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 7/8" drill bit for conduit.

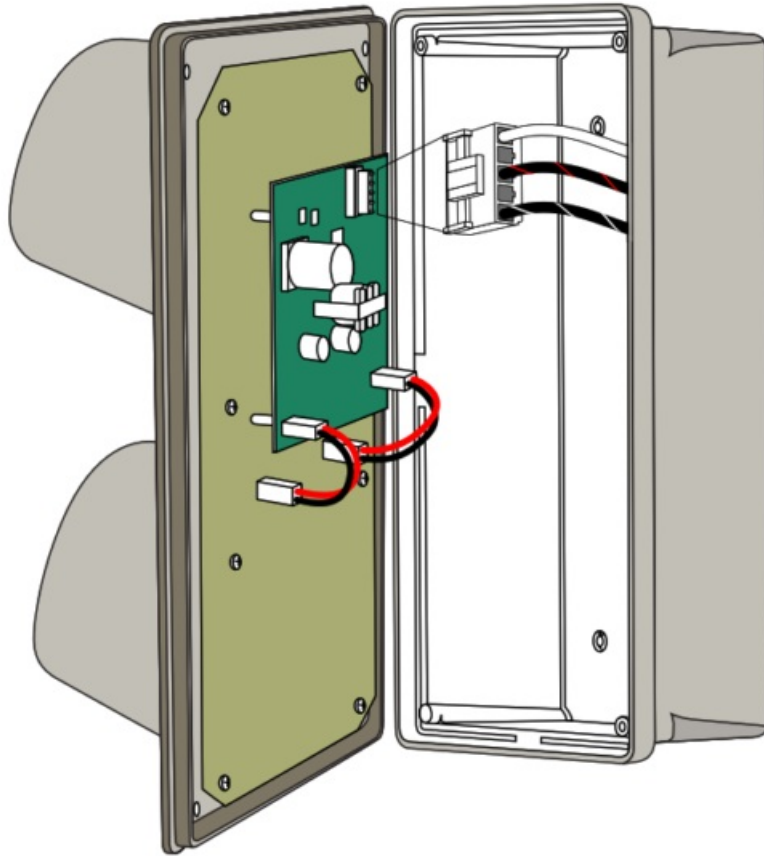


3. For Surface Mounting

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 diagram on back
5. Plug pigtail into the circuit board and replace the hood and the four retaining screws removed in step 1.

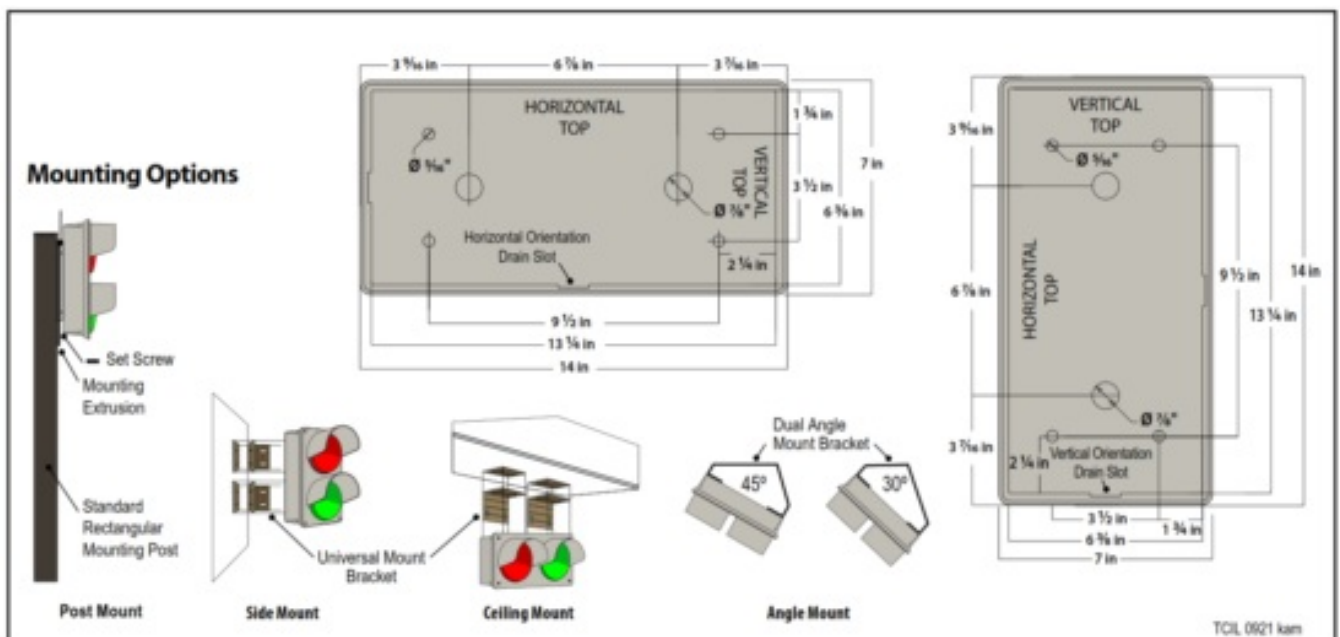


Note: Do not overtighten fasteners or distort back panel.



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.

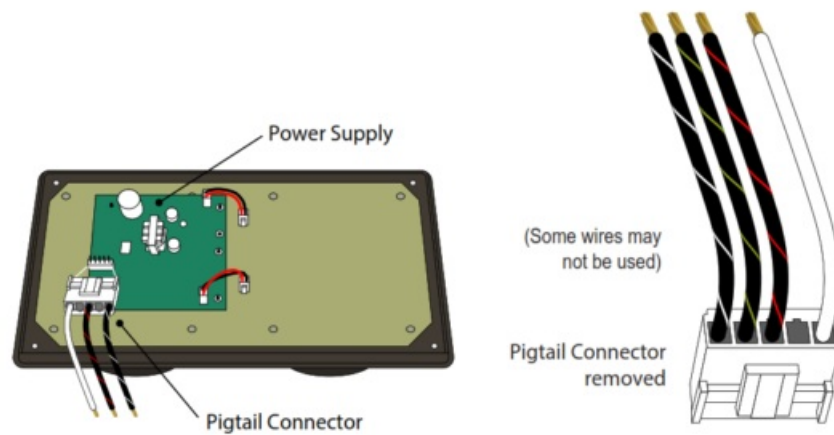
Wall Mounting Dimensions



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 of 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.

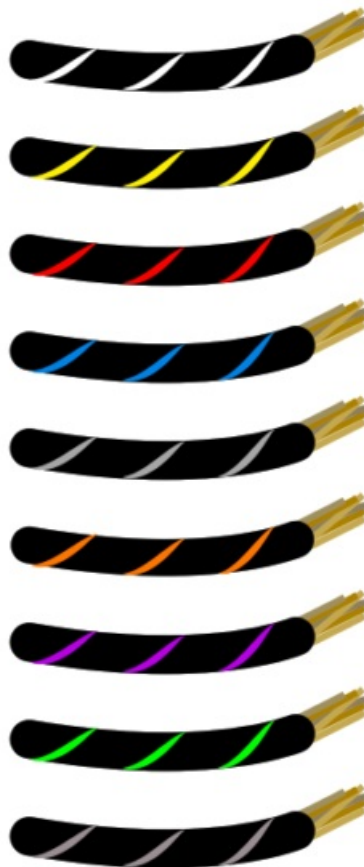


Note: Make appropriate wiring connections per local code.

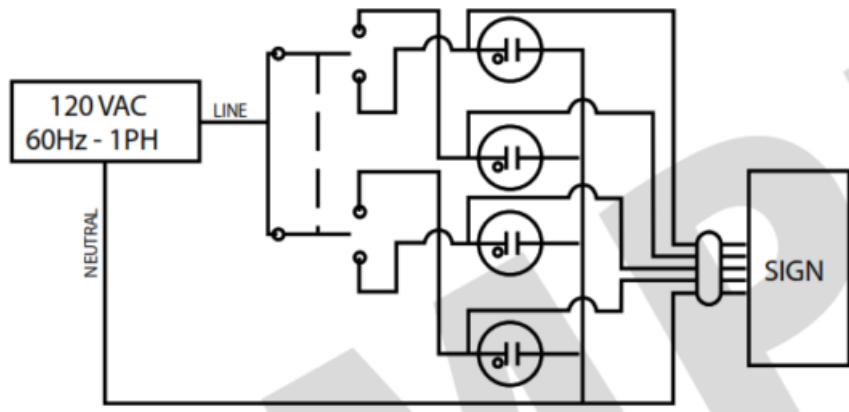
General Wiring Guidelines*

*Neutral is solid White and Ground (if equipped) is solid Green.

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



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



Sign connections are rated for 120-277 VAC Wire colors not listed here are unused.

NOTES:

1. SWITCH TYPE MAY VARY THIS IS ONLY A TYPICAL
2. SIGN LEAD COLOR CHART IS SHOWN BELOW
3. INDICATOR LIGHTS ARE OPTIONAL AND WIRED IN PARALLEL TO SIGN MESSAGE

Product ID: 5887

Message	Wire Color
Open	Black with White Stripes
Closed	Black with Yellow Stripes
NEUTRAL	White
GROUND (IF EQUIPPED)	Green



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 sign cabinet ST 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 ncludes proper grounding and bonding of the sign.

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

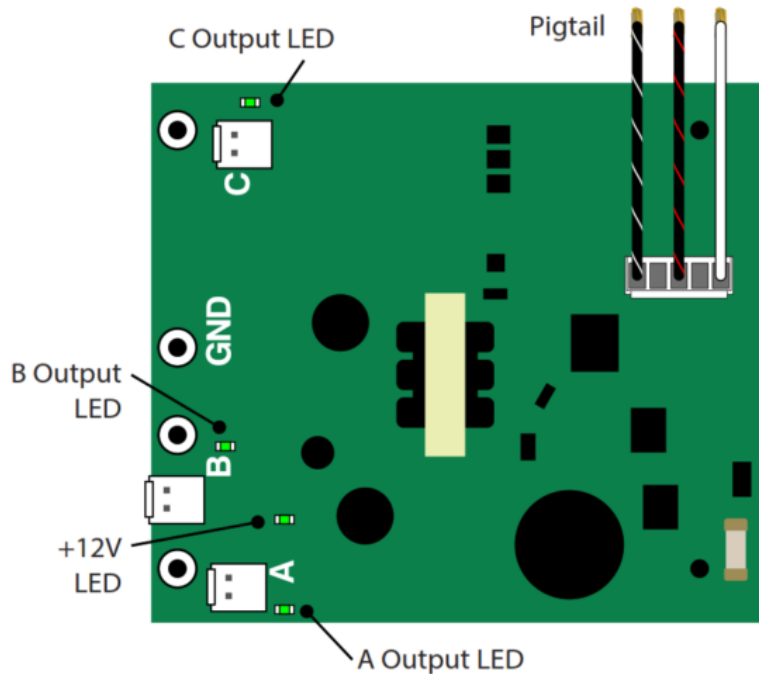
WARNING – Risk of Fire or Electric Shock. Do Not interconnect output terminations.

Normal Operation

There is one (1) LED on the power supply located close to the connector with the Red and Black wires. This LED marked V OUT, will illuminate green when 120 – 277VAC power is applied to the Pigtail. Check the LED on each power supply since there may be more than one power supply per message.



Note: Transformer on power supply converts 120 – 277VAC to 12V.



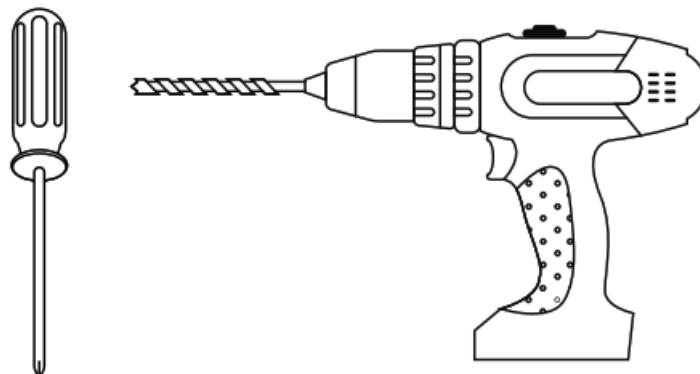
What You Need:

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

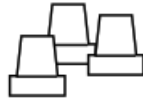
(4) Appropriate Wall Fasteners **(not supplied)**

Wire Connectors **(not supplied)**

Control Switch **(ordered separately)**

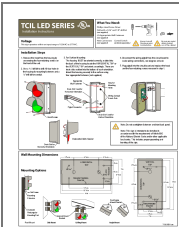


Always turn off the power prior to installation.



Be sure any metal debris clearedout of the cabinet.

Documents / Resources



[Signal-Tech TCIL Series AO-200966 LED Traffic Control Indicator Signals](#) [pdf] Instruction Manual
TCIL Series, AO-200966, LED Traffic Control Indicator Signals