



TR3 LED Signals

Wayside 5.5" (140 mm) - Transit Colorlight



BEFORE YOU BEGIN

Read these instructions completely and carefully. If you prefer to have this Installation Instructions document in other languages, visit our official website at: www.gecurrent.com/transportation

⚠ WARNING / AVERTISSEMENT

RISK OF ELECTRIC SHOCK

Disconnect Before Servicing or installing product. The LED module must be installed into a signal head with adequate ingress protection for the location (protection from the weather).

RISQUES DE DÉCHARGES ÉLECTRIQUES

Couper l'alimentation avant le dépannage ou avant l'installation du produit. Le module DEL doit être installé dans une tête de signal avec une protection adéquate d'entrée pour l'emplacement (protection contre les intempéries).

Operating Specifications

	10V Modules	12V Modules
Nominal Input Voltage	12V AC 10V AC	110V AC
Voltage Range	8V to 16V AC 8V to 20V DC	85V to 135V AC
Nominal Power Consumption	See product label	

Prepare Electrical Wiring



Electrical Requirements

- Follow all National Electric Codes (NEC) and local codes.

Important Information

- Always use a sun shielding apparatus such as a visor or hood if installed outdoors.
- Do not attempt to open the LED module. No assembly is required.
- Relay flashers are the only approved means of flashing the LED signal.
- Current recommends that primary and secondary surge protection be added additional to the tertiary surge protection in the lamp. Arema 11.3.3
- This product is intended solely for the use of rail signaling and is not intended for use in any other application.



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAN ICES-005 (A)/NMB-005(A)

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

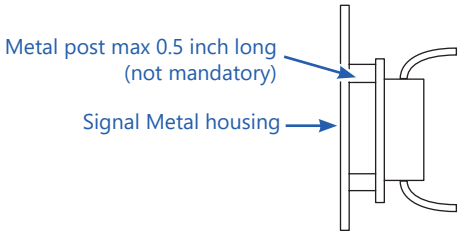
Testing

When testing the lamp before installation, first check the electrical characteristics on the label on the side of the lamp to avoid damaging the lamp.

Installation Steps

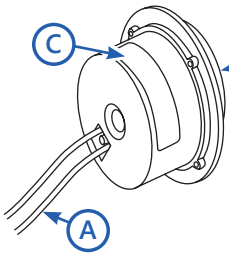
NOTE: Failure to properly follow these instructions may cause signal to malfunction.

- ① **Existing signal head in the field:** Remove lens and incandescent bulb assembly from housing.
- ② **Existing in-line rheostat in the field:** Set rheostat (variable resistor) to zero (0) or remove completely.
- ③ **Voltage settings:** Check the label on the side of the LED module to ensure the voltage corresponds to the system voltage.
- ④ **Color-Coded Wiring:** The module wires have been color-coded to identify the color of the signal when it is off. For example, green signals have green wires.
- ⑤ **Alignment:** If the module has a sloped front lens, rotate the module until the thick part of the lens is **(A)** on top, and the slope faces downward.
- ⑥ **Fastening:** Tighten metal tabs or ring over module rim. For Models -92/-96 with external resistor. If the module has a flat lens, no alignment is necessary. load, see the following installation instruction recommendations.

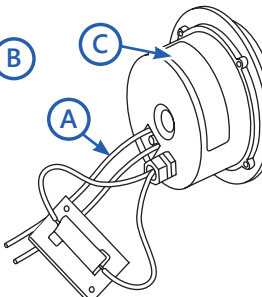


NOTE: The Hanging resistor plate is a Hot surface that must be kept away from plastic or wires. It is recommended to mount the resistor plate on the signal metal head using metal hardware. See suggested mounting picture above. Contact Current for more information.

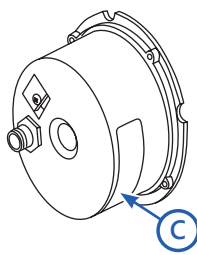
TR3-xxFBx0xx(-70AU)



TR3-xxFBx0xB-92



TR3-xxFBx0xA-80M4



(A) Wire color indicates LED signal color

(B) Ensure thick part of sloped lens is on top for best results

(C) Check label for required voltage

⚠ CAUTION

RISK OF ELECTRIC SHOCK
Install unit in enclosure tested to be suitable for wet locations only.

⚠ CAUTION

HOT SURFACE
The hanging Resistor plate on the -92/96 model can get hot. Allow to cool down before handling.