

Installation Instructions

Square Transit Rail LED Signals– 92 Series / Wayside Colorlight

(DS6-WFDV-01B-92, TS6-WFTA-01B-92, LS6-WFA3-01B-92)



BEFORE YOU BEGIN

Read these instructions completely and carefully.

Prepare Electrical Wiring



Electrical Requirements

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

⚠ 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).

Risque de choc électrique. 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).

⚠ CAUTION

Risk of Improper Installation.

If the lamp is NOT inserted in the correct orientation, the light output of the lamp will not meet Specification.

Operating Specifications:

12V Module Only

Voltage Range:	8 to 16V DC
Input Voltage Range:	10 to 12V DC
Current Draw:	Minimum of 1.35 A

- Use only with approved microprocessor-based controllers (refer to label on module cover) as follows:
 - GETS: EL2, VHLC, EC4, EC5
 - US & S: MICROLOCK II VERSION 8
- Vital programmable control systems or relay flashers are the only approved means of flashing the LED signal.
- LED module fits into most standard railway signal heads.
- LED module is self-contained – no assembly is required.

Testing:

- If testing before installation, be sure to use a **constant power source rated 10V / 2 A minimum** to ensure proper operation of the LED signal.

NOTE: Failure to do so will activate the light-out safety detection feature of the LED signal and disable the lamp's operation.

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 back of the LED module to ensure the voltage corresponds to the system voltage. The recommended voltage at the signal head is 10 to 12V.
4. **Wiring:** The module wires have been color-coded to help identify the color of the signal when it is off. For example, red signals have red wires.
Care should be taken to route wiring away from the heat sink, which may get hot.

NOTE: Some older versions of the 92-series had one white and one coloured wire. There is no significance to the different colors with respect to the input voltage polarity.

5. **Insertion of LED module into signal head:** Insert the LED module into lens slot and tighten metal tabs, or insert LED module into the external ring holder.



Installation Instructions (cont'd)

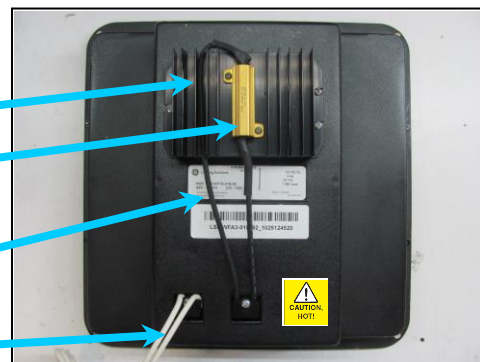
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⚠ CAUTION
Risk of Electric Shock
Install unit in enclosure tested to be suitable for wet locations only.

⚠ CAUTION
Surface may be hot!
Do not touch the heatsink or the resistor.

Check label for required voltage

Wire color indicates LED signal color



GE 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 applications.

NOTE: If you prefer to have this Installation Instructions document in **other languages**, visit our official website at:
www.currentbyge.com/transportation

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.

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