Installation Instructions
RM4 LED Signals Rail – TRICOLOR / Wayside Colorlight

STOP

BEFORE YOU BEGIN
Read these instructions completely and carefully.

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).

Warning / Avertissement. 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 Module Only
  - Voltage Range: 8 to 16V DC
  - Input Voltage Range: 10V 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 10V.
4. Wiring: For wire installation, please follow guidelines specified on the next page
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.

Prepare Electrical Wiring

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

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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).
Installation Instructions (cont’d)
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⚠️ CAUTION ⚠️
If the lamp is **NOT** inserted in the correct orientation, the light output of the lamp output will not meet specification.

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

⚠️ CAUTION ⚠️
Some surfaces may be hot
Ensure arrow “↑” points upward for proper beam
Check label for required voltage
Wire the terminals as shown, use shrink tubing color as a guide
Use wrench to tighten the brass hex nuts
Tighten plastic thumb-nuts by hand
To remove the terminal block, first pivot the latch
The terminal block can then be pulled by hand

As per AREMA guidelines, provisions should be made for periodic functional checks of safety devices and features incorporated into this product.

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 application.

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