



# RM4 LED Signals Rail

## 94 Series/AC - Wayside 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.LED.com/transportation](http://www.LED.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

	12V AC Module Only
Input Voltage Range	9V to 16V AC
Nominal Input Voltage	12V AC
Minimum Current Draw	0.8A

### Prepare Electrical Wiring



**Electrical Requirements**

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

### Important Information

- Use only with relay-based controllers.
- 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.
- This product is intended solely for the use of rail signaling and is not intended for use in any other application.
- Provisions should be made for periodic functional checks of safety devices and features incorporated into this product.
- Current recommends that primary and secondary surge protection be added additional to the tertiary surge protection in the lamp. Arema 11.3.3

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

If testing before installation, be sure to use a constant power source rated 12V AC/2A 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 12V AC.
- ④ Color-Coded 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.
- 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.

NOTE: If the lamp is NOT inserted in the correct orientation, the light output of the lamp may not meet specification.

