

LED Transit Colorlight Signal Modules

5.5 inch (140 mm) - 12V DC

-96 Series



TR3 Transit

Outstanding Reliability

- Compatible with most controllers with light-out-detection circuits
- Self-contained design provides protection against moisture and dust
- Backed by a 48 month limited warranty
- Over 210,000 wayside signals sold worldwide

Excellent Appearance & Visibility

- Robust LED system design enables high luminous intensity over long product life
- Sun Phantom reducing features have been incorporated in our design¹
- Easy to install and align
- Customizable front lens using Lens Kits²

Meets Rigorous Certification & Testing Standards

- Meets selected AREMA recommended practices, as detailed in the Design Compliance Table
- All lamps undergo comprehensive testing in the manufacturing plant
- Meets key failure rate criteria as per EN 50129*

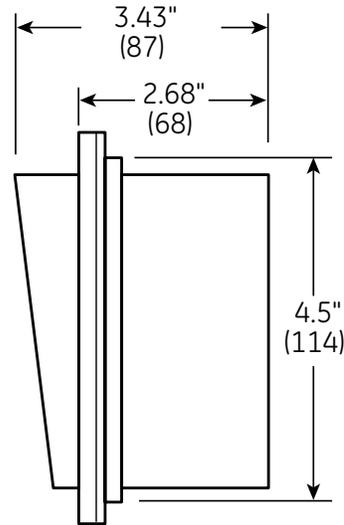
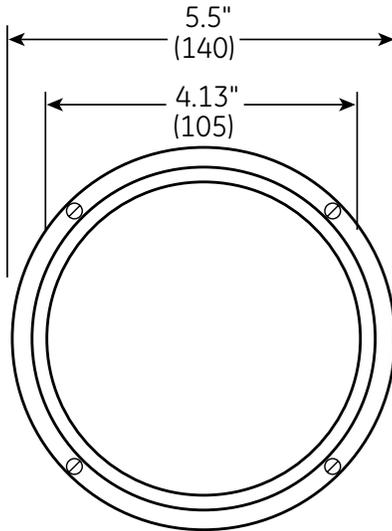
* Detailed rating table with duration and operating conditions available upon request.

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Mechanical Outline

Dimensions in inches. (mm) indicates metric equivalent



Design Compliance

| Characteristic | Compliance |
|---|------------------------------------|
| Impact Resistance of Front Shell | IR3 |
| Mechanical Vibration & Shock | AREMA 11.5.1.D.4/D.5, Class B |
| Water/Dust Ingress Protection (in typical Rail Housing) | EN 60529 IP65 |
| Dielectric Strength | AREMA 11.5.1.D.7, Class B |
| Electrical Surge Protection | EN61000-4-5, Class 3, AREMA 11.3.3 |
| Electromagnetic Compatibility (EMC) | FCC Part 15, Subpart B EN55011 |

Operating Specifications

| Parameter | Rating |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 to 70°C (-40 to 158°F) |
| Nominal Operating Voltage | 10 VDC |
| Operating Voltage Range | 8 - 16 VDC |
| Voltage Turn-Off | 3.5 VDC |
| Turn-On/Turn-Off Time | < 75ms |

Product Information

| Model Number | Aspect Color | Nominal Watts | Number of LEDs |
|--|--------------|---------------|----------------|
| Mid-Range and Outdoor Applications ¹ | | | |
| ● TR3-GCFB501B-96 | Green | 14.3 | 90 |
| ○ TR3-WCFB501B-96 | White | 15.2 | 90 |
| ● TR3-YCFB501B-96 | Yellow | 14.4 | 88 |
| ● TR3-RCFB501B-96 | Red | 14.8 | 88 |

Notes:

¹ Signal performance when exposed to external light (ex. sun, head lamp) is dependant on each application field testing is recommended.

² Sold separately. Refer to datasheet RAIL144.

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RAIL130 (Rev 07/25/16)