LED Colorlights Wayside

8 inch (200 mm) - 12V AC
-93 & -94 Series

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
- Efficient optical system delivers uniform color across both wide- and narrow-beam signals
- Sun Phantom reducing features have been incorporated in our design [1]
- Easy to install and align
- Optional dual day/night brightness modes [2]

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.
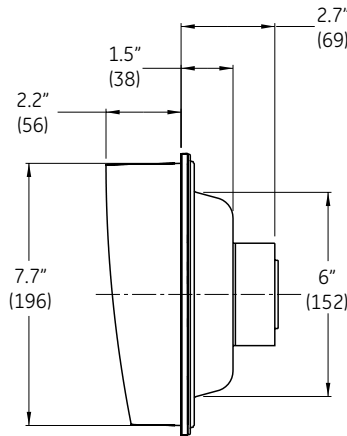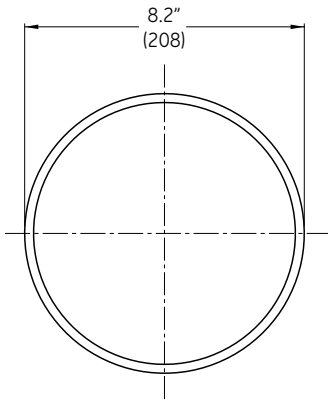
RM4 - Wayside

LED Colorlights - Wayside

• 8 inch (200 mm) - 12V AC • **-93 & -94 Series**

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	-94: AREMA 11.5.1.D.7, Class B -93: EN50121-4
Electrical Surge Protection	EN61000-4-5, Class 3, AREMA 11.3.3
Electromagnetic Compatibility (EMC)	-94: FCC Part 15, Subpart B -93: EN50121-4

Operating Specifications

Parameter	Rating
Operating Temperature Range	-40 to 70°C (-40 to 158°F)
Nominal Operating Voltage	12V AC
Operating Voltage Range	-94: 9 - 16V AC -93: 6.5 - 13V AC
Voltage Turn-Off	5V AC
Turn-On/Turn-Off Time	< 75ms (94 Series) < 200ms (93 Series)

Product Information

	Model Number	Aspect Color	Nominal Watts	Number of LEDs	Approx. Dimming Ratio
	-94 Series: Short and Mid-Range: Visibility to 2000 ft (600 m) [1]				
🟢	RM4-GCFB-28B-94GK	Green	16W	88	N/A
🟡	RM4-YCFB-43B-94GK	Yellow	19W	132	N/A
🔴	RM4-RSFB-43B-94GK	Red	15W	132	N/A
	-93 Series: Long Range: Visibility to 5000 ft (1500 m) [1]				
🟢	RM4-GSFB-75B-93DG	Green	24W	88	50%
🟡	RM4-YSFB-85B-93DG	Yellow	24W	88	50%
🔴	RM4-RSFB-75B-93DG	Red	22W	88	50%

Notes:
[1] Signal performance when exposed to external light (ex. sun, head lamp) is dependant on each application field testing is recommended.
[2] Applicable only to -93 Series lamps.

Distributed by:

RAIL127-R090412