RG6 LED Level Crossing Signal Modules

12 inch (300mm)

Outstanding Reliability
- Self-contained design provides protection against moisture and dust
- Designed for retrofit into existing housings

Excellent Appearance & Visibility
- Robust LED system design enables high luminous intensity over long product life
- Optional sidelights

Meets Rigorous Certification & Testing Standards
- Meets AREMA standards
- All lamps undergo comprehensive testing in the manufacturing plant
- Lens withstands 100 mph baseball impact as per NOCSAE Impact Test

GE Lighting Solutions
RG6 LED Level Crossing Signal Modules

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### Operating Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Uniform Rating</th>
<th>Pixelated Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +70°C (-40 to +158°F)</td>
<td>-40 to +70°C (-40 to +158°F)</td>
</tr>
<tr>
<td>Operating Voltage Range</td>
<td>8 to 20V DC 8 to 16V AC (50-60Hz)</td>
<td>8 to 14 V AC 8 to 14 V DC</td>
</tr>
<tr>
<td>Voltage Turn-Off (VTO)</td>
<td>4V</td>
<td>-</td>
</tr>
<tr>
<td>Power Surge</td>
<td>45Vrms for 80µs</td>
<td>42Vrms for 80ms 1000 Vrms for 1.8µs</td>
</tr>
<tr>
<td>Nominal Current Draw</td>
<td>1.5A</td>
<td>0.85A (DC) 1.05A (AC)</td>
</tr>
</tbody>
</table>

### Design Compliance

- **Environmental Limits**: AREMA Part 11.5.1 – Class B
- **Electronic Noise**: AREMA Part 11.5.1 – Class B
- **Transient Immunity**: AREMA Part 11.3.3
- **Photometric Requirements**: Transport Canada 3.2.35, Type 30-15 and 20-32
- **Impact Resistance**: 100 mph baseball

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**RG6 - Uniform Look**

- Meets AREMA Class B Standards
- Transport Canada Compliant
- Optional sidelights provide additional visibility
- Efficient optical system delivers uniform color

**RG6 - Pixelated Look**

- Meets AREMA Class B Standards
- Low power consumption for long battery back-up life
- Designed to ensure that sidelights are on only when the front signal is flashing
- Surge and over voltage protection protects LEDs
Mechanical Outline

Dimensions in inches. (mm) indicates metric equivalent

Figure A - Uniform Look

Figure B - Pixelated Look

Typical Current Draw

Uniform look

![Uniform Current Draw Graph]

Pixelated Look

![Pixelated Current Draw Graph]

Product Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Sidelight Color</th>
<th>Lamp Appearance</th>
<th>Dominant Wavelength (nm)</th>
<th>Nominal Power (W) ¹</th>
<th>Typical Beam Angles (50% of peak intensity)</th>
<th>Typical Field Angles (10% of peak intensity)</th>
<th>Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG6-RTFB-48BV1-H7</td>
<td>Red</td>
<td>Uniform</td>
<td>630</td>
<td>12W AC / 12W DC</td>
<td>20°H x 7.5°V</td>
<td>45°H x 17.5°V</td>
<td>A</td>
</tr>
<tr>
<td>RG6-RTFB-01BV1-H7</td>
<td>Red</td>
<td>Pixelated</td>
<td>623</td>
<td>10.5W AC / 8W DC</td>
<td>30°H x 30°V</td>
<td>46°H x 46°V</td>
<td>B</td>
</tr>
<tr>
<td>RG6-RTFB-01BV1-GH7 ²</td>
<td>Red</td>
<td>Pixelated</td>
<td>623</td>
<td>10.5W AC / 8W DC</td>
<td>30°H x 30°V</td>
<td>46°H x 46°V</td>
<td>B</td>
</tr>
<tr>
<td>RG6-RTFB-01BV3-H7</td>
<td>White</td>
<td>Pixelated</td>
<td>623</td>
<td>10.5W AC / 8W DC</td>
<td>30°H x 30°V</td>
<td>46°H x 46°V</td>
<td>B</td>
</tr>
<tr>
<td>RG6-RTFB-01BV3-GH7 ²</td>
<td>White</td>
<td>Pixelated</td>
<td>623</td>
<td>10.5W AC / 8W DC</td>
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<td>B</td>
</tr>
</tbody>
</table>

All values are design or typical values when measured under laboratory conditions at T=25°C.

¹ For gasket options, please contact your sales agent.

² Resists concentric impact from a baseball (NOCSAE DOC 072) projected per NOCSAE DOC 021 Section 5.2, 6, 12.

³ Applicable to uniform look only.

⁴ Applicable to pixelated look only.

⁵ Based on nominal voltage of 10V.

⁶ With gasket option.
The Greatest Signals Stand the Test of Time.™