RG6 LED Level Crossing Signal Modules

12 inch (300 mm)

Project Name _____

Date _____ Type _____

Notes _____

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
- Efficient optical system delivers uniform color

MEETS RIGOROUS CERTIFICATION & TESTING STANDARDS

- Meets AREMA standards*
- Transport Canada Compliant*
- All lamps undergo comprehensive testing in the manufacturing plant Lens
- Withstands 100 mph baseball impact as per NOCSAE Impact Test[1]

AVAILABLE IN THREE CONFIGURATIONS

Uniform Look Type A

Uniform Look Type B

Pixelated Look

* See Design Compliance tables on product spec pages.

[1] -H7 SKUs resist concentric impact from a baseball (NOCSAE DOC 072) projected per NOCSAE DOC 021 Section 5.2 & 12.

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RG6 LED Level Crossing Signal Modules

Uniform Look Type A - for Solid State Controllers

Project Name _____

Date _____ Type _____

Notes _____

Design Compliance

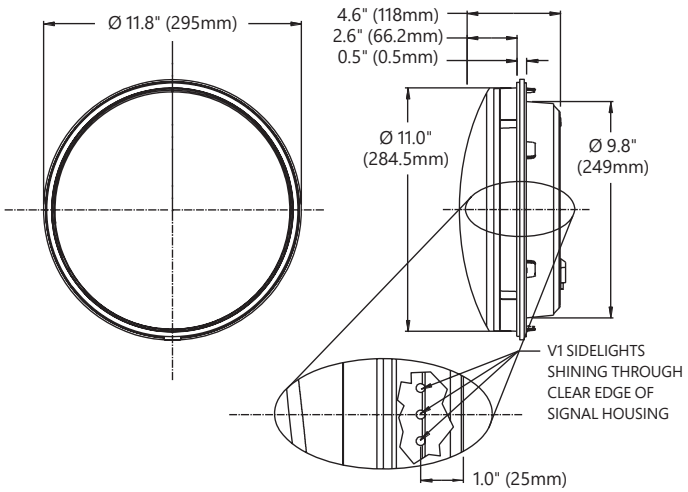
Parameter	Compliance
Environmental Limits	AREMA Part 11.5.1 – Class B
Electronic Noise	AREMA Part 11.5.1 – Class B
Transient Immunity	AREMA Part 11.3.3
Photometric Requirements	Transport Canada[1] AREMA Part 3.2.35, Type 30-15 and 20-32
Impact Resistance	100 mph baseball[2]

Operating Specifications

Parameter	Type A
Operating Temperature Range	-40 to +70 °C (-40 to +158 °F)
Nominal Operating Voltage	12V AC/DC
Operating Voltage Range	8 to 20V DC 8 to 16V AC (50-60 Hz)
Voltage Turn-Off (VTO)	4V
Power Surge	45 Vrms for 80ms
Nominal Current Draw[3]	1.2A
Inrush Current Nominal	0.0128 A^2s

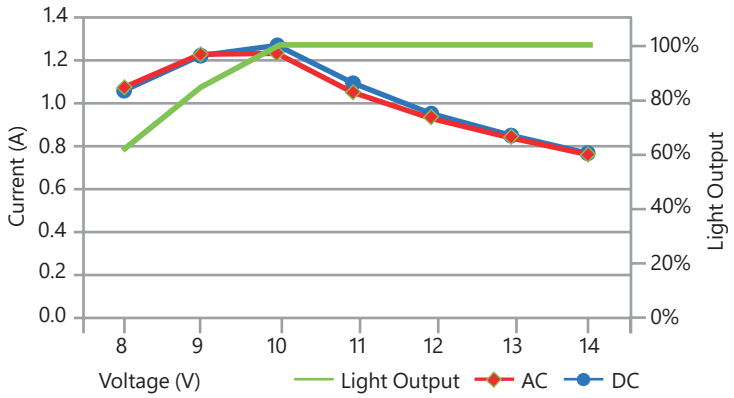
Mechanical Outline

Dimensions in inches (mm)



I-V Curve

Type A



Product Information

Model Number	Sidelight Color	Type	Dominant Wavelength	Nominal Power	Typical Beam Angles (intensity)	Typical Field Angles
RG6-RTFB-48BV3-H7[2]	White	A	630	12W AC/12W DC	20°H x –7.5°V	45°H x –17.5°V
RG6-RTFB-48BV1-H7[2]	Red	A	630	12W AC/12W DC	20°H x –7.5°V	45°H x –17.5°V
RG6-RTFB-48BV1	Red	A	630	12W AC/12W DC	20°H x –7.5°V	45°H x –17.5°V

All values are design or typical values when measured under laboratory conditions at T=25°C, with a nominal 50% duty cycle rate @ 1 Hz.

[1] Compliant at voltages greater than or equal to 10V AC/DC.
[2] -H7 SKUs resist concentric impact from a baseball (NOCSAE DOC 072) projected per NOCSAE DOC 021 Section 5.2 & 12.
[3] Based on nominal voltage.

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RG6 LED Level Crossing Signal Modules

Uniform Look Type B - for Relay-based and Solid State Controllers

Project Name _____

Date _____ Type _____

Notes _____

Design Compliance

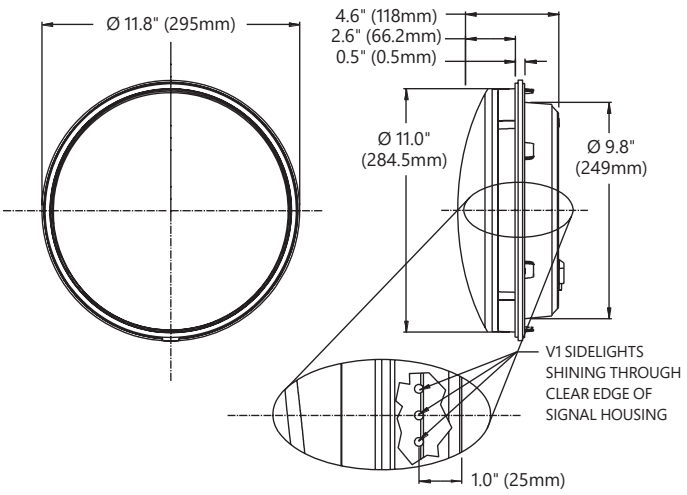
Parameter	Compliance
Environmental Limits	AREMA Part 11.5.1 – Class B
Electronic Noise	AREMA Part 11.5.1 – Class B
Transient Immunity	AREMA Part 11.3.3
Photometric Requirements	Transport Canada[1] AREMA Part 3.2.35, Type 30-15 and 20-32
Impact Resistance	100 mph baseball[2]

Operating Specifications

Parameter	Type A
Operating Temperature Range	-40 to +70 °C (-40 to +158 °F)
Nominal Operating Voltage	12V AC/DC
Operating Voltage Range	8 to 14V DC 8 to 14V AC
Voltage Turn-Off (VTO)	-
Power Surge	42 Vrms for 80ms 1000 Vrms for 1.2/50µs
Nominal Current Draw[3]	1.6A
Inrush Current Nominal[4]	0.00005 A^2s

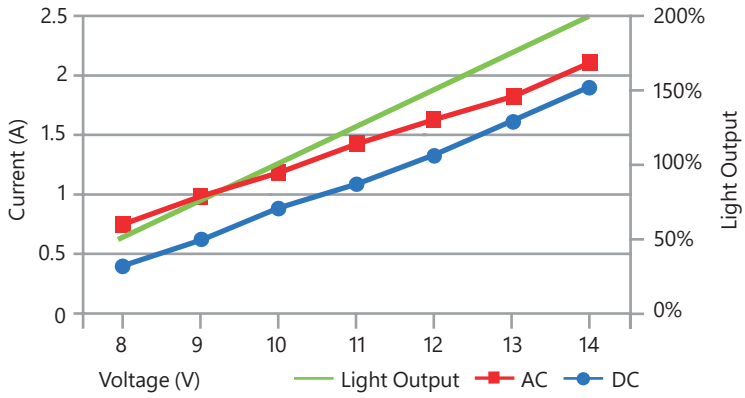
Mechanical Outline

Dimensions in inches (mm)



I-V Curve

Type A



Product Information

Model Number	Sidelight Color	Type	Dominant Wavelength	Nominal Power	Typical Beam Angles (intensity)	Typical Field Angles
RG6-RTFB-48BV1-H7U[1]	Red	B	630	18W AC/18W DC	20°H x –7.5°V	45°H x –17.5°V
RG6-RTFB-48BV3-H7U[1]	White	B	630	18W AC/18W DC	20°H x –7.5°V	45°H x –17.5°V

All values are design or typical values when measured under laboratory conditions at T=25°C, with a nominal 50% duty cycle rate @ 1 Hz.

[1] Compliant at voltages greater than or equal to 10V AC/DC.
[2] -H7 SKUs resist concentric impact from a baseball (NOCSAE DOC 072) projected per NOCSAE DOC 021 Section 5.2 & 12.
[3] Based on nominal voltage.
[4] Above nominal current.

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RG6 LED Level Crossing Signal Modules

Pixelated Look - for Relay-based and Solid State Controllers

Project Name _____

Date _____ Type _____

Notes _____

Design Compliance

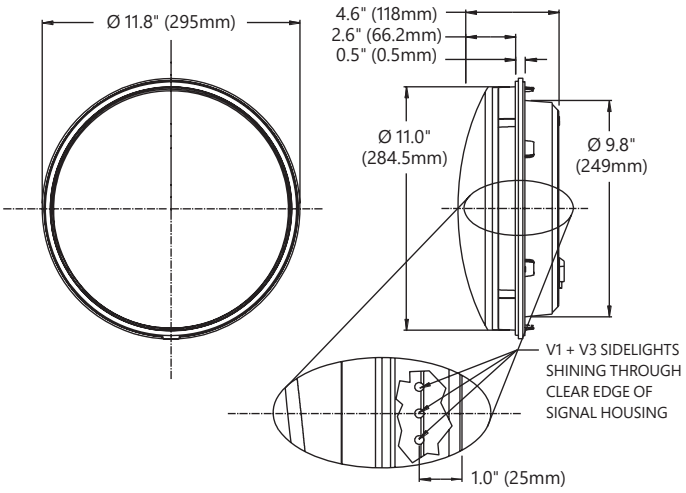
Parameter	Compliance
Environmental Limits	AREMA Part 11.5.1 – Class B
Electronic Noise	AREMA Part 11.5.1 – Class B
Transient Immunity	AREMA Part 11.3.3
Photometric Requirements	Transport Canada[1] AREMA Part 3.2.35, Type 30-15 and 20-32
Impact Resistance	100 mph baseball[2]

Operating Specifications

Parameter	Type A
Operating Temperature Range	-40 to +70 °C (-40 to +158 °F)
Nominal Operating Voltage	10V AC/DC
Operating Voltage Range	8 to 14V DC 8 to 14V AC
Voltage Turn-Off (VTO)	-
Power Surge	42 Vrms for 80ms 1000 Vrms for 1.8µs
Nominal Current Draw[3]	0.85A (DC) 1.05A (AC)
Inrush Current Nominal	0.00005 A^2s

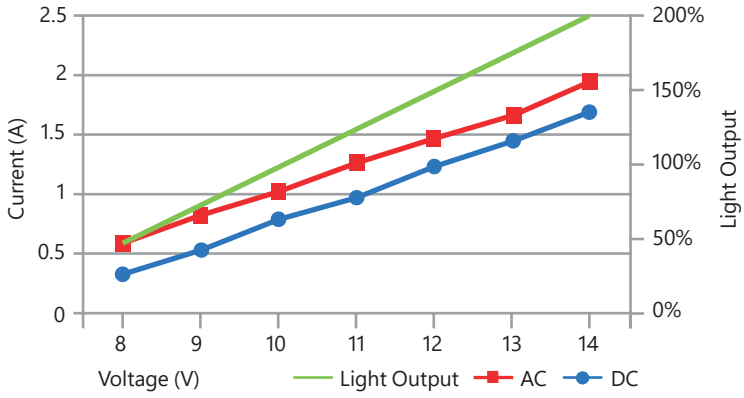
Mechanical Outline

Dimensions in inches (mm)



I-V Curve

Pixelated



Product Information

Model Number	Sidelight Color	Type	Dominant Wavelength	Nominal Power	Typical Beam Angles (intensity)	Typical Field Angles
RG6-RTFB-01BV1-H7	Red	-	623	10.5W AC/8W DC	30°H x 30°V	46°H x 46°V
RG6-RTFB-01BV1-GH7[4]	Red	-	623	10.5W AC/8W DC	30°H x 30°V	46°H x 46°V
RG6-RTFB-01BV3-H7	White	-	623	10.5W AC/8W DC	30°H x 30°V	46°H x 46°V
RG6-RTFB-01BV3-GH7[4]	White	-	623	10.5W AC/8W DC	30°H x 30°V	46°H x 46°V

All values are design or typical values when measured under laboratory conditions at T=25°C, with a nominal 50% duty cycle rate @ 1 Hz.

[1] Compliant at voltages greater than or equal to 10V AC/DC.
[2] -H7 SKUs resist concentric impact from a baseball (NOCSAE DOC 072) projected per NOCSAE DOC 021 Section 5.2 & 12.
[3] Based on nominal voltage.
[4] With gasket option.

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