



SC315-G CABINET-BASED RECTANGULAR RAPID FLASHING BEACON

Rectangular rapid flashing beacons (RRFBs) improve pedestrian safety by increasing yield rates to 72-96% at crosswalks.*

- The benchmark for RRFBs, the SC315-G meets MUTCD requirements, including IA-21, and is Buy America compliant
- Audible pushbutton or passive pedestrian activation
- Solar or AC-powered
- Energy Balance ReportTM (EBR) prepared for every location to ensure battery longevity

SUPERIOR DESIGN AND TECHNOLOGY

The SC315-G is a cabinet-based system with a separate, high-power solar panel. This design enables the SC315-G to work with audible pushbutton stations, passive activation sensors, and remote monitoring, as well as operate at higher intensities and increased activations in challenging environments. MUTCD interim approval IA-21 flash pattern and multiple configurations enable the SC315-G to handle all crosswalk applications.

EASY INSTALLATION

All components, including the battery or AC power supply, Energy Management System (EMS) and optional audible pushbutton controller are housed in a compact, lockable, purpose-built enclosure. It also incorporates a wire routing and termination system, and all components are wired at the factory for an efficient installation.

ADVANCED USER INTERFACE

The SC315-G comes with an on-board user interface for quick configuration and status monitoring. It allows for simple in-the-field adjustment of flash pattern, duration, intensity, ambient auto adjust, night dimming, and many more. Settings are automatically sent wirelessly to all units in the system.

COMPATIBILITY

Compatible with Carmanah RRFBs and the R820-E, R820-F, and R820-G circular beacons. Interchange solar and AC power models within the same application.

RELIABLE

Designed with Carmanah's industry-leading solar modeling tools to provide dependable year-after-year operation. We prepare an Energy Balance Report (EBR) for every location.

TRUSTED FOR 20+YEARS

With thousands of installations, Carmanah's systems are the benchmark in traffic applications and other transportation applications worldwide.



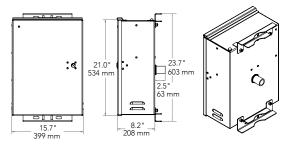
* U.S. Department of Transportation Federal Highways Administration, Publication No. FHWA-HRT-10-043 -"Effects of Yellow Rectangular Rapid-Flashing Beacons on Yielding at Multilane Uncontrolled Crosswalks"





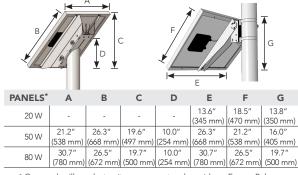
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CABINET DIMENSIONS



SOLAR PANEL MOUNTING

4.5" Diameter Round Top of Pole Mount Side of Pole Mount



* Carmanah will conduct a site assessment and provide an Energy Balance Report™ to determine the correct solar panel and battery size.

LIGHT BAR CONFIGURATION

Uni-directional Configuration Bi-directional Configuration

ACTIVATION OPTIONS

Standard Pushbutton Audible Pushbutton Station Passive Activation Sensor



BEACON SPECIFICATIONS		
Optical	MUTCD interim approval IA-21 and MUTCDC compliant	
	Purpose-built light bar optics = maximum efficiency and no stray light Exceeds SAE J595 class 1 intensity by 2.5 to 3x when used as recommended Meets SAE J578 chromaticity	
	3 in (76 mm) x 7 in (178 mm) clear, UV-rated polycarbonate lens with yellow LEDs	
	High-power LEDs: +90% lumen maintenance (L90) based on IES LM-80	
	Side-emitting pedestrian confirmation LEDs	
	Independent, stainless steel mounting brackets make back-to-back installation simple and enable in-field aiming for maximum effectiveness	
	Yellow, black, or green powder coated light bar covers	

On-Board User Interface (OBUI)	Adjustable system settings with auto-scrolling LED display on our latest EMS
	System test, status, and fault detection: battery, solar, button, beacon, radio, day night
	Flash patterns: RFB (WW+S), RFB1 (WW+S legacy), RFB2 (WSDOT), 0.5 sec.
	alternating (MUTCD), 0.5 sec. unison (MUTCD), 0.5 sec. x3 alternating (MUTCD),
	0.1 sec. unison, 0.25 sec. unison, 0.1 sec. x3 quick flashes unison, 0.1 sec. x3
	quick flashes alternating, steady on
	Input: momentary for pushbutton activation, normally open switch, normally clos switch
	Flash duration: 5 sec. to 1 hr.
	Intensity setting: 20 to 1400 mA for multiple RRFBs, circular beacons, or LED enhanced signs
	Nighttime dimming: 10 to 100% of daytime intensity
	Ambient Auto Adjust: increases intensity during bright daytime
	Automatic Light Control: reduces intensity if the battery is extremely low
	Temperature correction: yellow beacons
	Calendar: internal time clock function
	Radio settings: enable/disable, selectable channel from 1 to 14
	Output: enabled when beacons flashing daytime and nighttime, or nighttime on E.g., for relay control of overhead lighting
	Activation counts and data reporting via OBUI or optional USB connection
	Encrypted, wireless radio with 2.4 GHz mesh technology
	Wireless update of settings from any unit to all systems on the same radio chann
	User-selectable multiple channels to group different beacons and ensure a robus wireless signal
Beacon Communication	Communicates with all other Gen III radio-enabled systems including our R820-E, -F, and -G circular beacons
	Instantaneous wireless activation: <150 ms
	Wireless range: 1000 ft (305 m)
	Integrated, vandal-resistant antenna
	Solar or AC-powered
Power	
System	AC: 100-240 VAC input, 6-14 AWG Replaceable AC-DC power supply, circuit breaker, terminal block wiring
	20, 50, or 80 W high-efficiency photovoltaic solar panel
Energy	45 deg tilt for optimal energy collection
Collection	
	Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) bat charger for optimal energy collection in all solar and battery conditions
	12 V battery system with multiple sizes: 35, 55, 100 Ahr.
Energy Storage	Replaceable, recyclable, sealed, maintenance-free, best-in-class AGM batteries offer the widest temperature range and longest life
	Battery design life: +5 yrs.
	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)
	Lockable, hinged door with #2 lock Optional padlockable latch
Cabinet	Corrosion-resistant aluminum with stainless steel hardware
Construction	Raw aluminum finish or yellow, black, or green powder coated
	Prewired to minimize installation time
	High-efficiency optics and EMS = the most compact, lightweight system -35 to 165° F (-37 to 74° C) system operating temperature
Environmental	-40 to 140° F (-40 to 60° C) battery operating temperature
	150 mph (241 kph) wind speed as per AASHTO LTS-6
Activation	Pushbutton: ADA-compliant, piezo-driven with visual LED and two-tone audible confirmation
	Audible pushbutton station: ADA-compliant, piezo-driven with visual LED and customizable voice message confirmation
	Passive activation: microwave-based sensor detects pedestrian
Warranty	5-year limited warranty, excluding batteries

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