SC315 RECTANGULAR RAPID FLASHING BEACON



MUTCD-compliant, pedestrian-activated warning beacon for uncontrolled marked crosswalks

- Improve pedestrian safety by increasing driver yield rates
- Passive activation: microwave-based sensor detects pedestrian
- Audible push button station
- Solar power performance even in partially shaded applications
- Solar and AC-powered models wirelessly communicate and can be used together in the same application
- Meets and exceeds MUTCD requirements, including IA-21

RRFBs have been found to provide vehicle yielding rates between 72 and 96 percent for crosswalk applications, including 4 lane roadways with average daily traffic (ADT) exceeding 12,000*.

Superior Design and Technology

The SC315 is a cabinet-based system with a separate, high-power solar panel. This design enables the SC315 to work with audible push button 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 to handle all crosswalk applications.

Easy Installation

All components, including the battery or AC power supply, Energy Management System (EMS) and optional audible push button 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 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.

Trusted

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



WE SIMPLIFY PLANNING.

Contact us to get your Energy Balance Report and purchase specifications.



1.844.412.8395



traffic@carmanah.com



carmanahtraffic.com

^{*} 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"

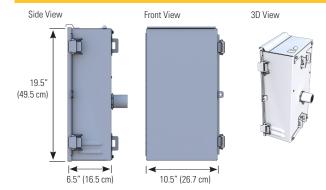
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Adjustable system settings with auto-scrolling LED display on our latest EMS System test, status, and fault detection: battery, solar, button, beacon, radio, day/night Flash patterns: RFB1 (WW+S), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.5 sec. unison (MUTCD), 0.1 sec. unison, 0.25 sec. unison, 0.1 sec. x3 quick flashes unison, 0.1 sec. x3 quick

Input: momentary for push button activation, normally open switch, normally closed switch

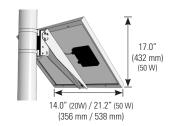
flashes alternating



4.5" Diameter Round Top of Pole Mount (50 W and 80 W panels)

Side of Pole Mount (20 W, 50 W, and 80 W panels)









Rotate the light bar towards the incoming vehicle lane, independent of the wire hole location.









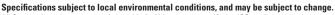












All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

US Patent No 6,573,659, Other patents pending. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.

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On-Board Intensity setting: 20 to 1400 mA for multiple RRFBs, circular beacons, or LED enhanced signs User Interface Nighteting diagnification intensity.
User Interface Nighttime dimming: 10 to 1009/ of douting intensity
Nighttime dimming: 10 to 100% of daytime intensity
(OBUI) Ambient Auto Adjust: increases intensity during bright daytime
Automatic Light Control: reduces intensity if the battery is extremely low
Temperature correction: yellow or red 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 only
Activation counts and data reporting via OBUI or optional USB connection
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
Optical 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
Encrypted, wireless radio with 2.4 GHz mesh technology
Wireless update of settings from any unit to all systems on the same radio channel
User-selectable multiple channels to group different beacons and ensure a robust wireless signal
Connectivity 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-proof antenna
Solar or AC-powered
Power System AC: 90-264 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) battery charger for optimal energy collection in all solar and battery conditions
12 V battery system with multiple sizes: 33, 35 Ahr.
Replaceable, recyclable, sealed, maintenance-free, best-in-class AGM batteries offer the widest temperature range and longest life
Storage Battery design life: +5 yrs.
Tool-less battery change with quick connect terminals and strapping for easy installation
Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)
Lockable, hinged door
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
-40 to 165° F (-40 to 74° C) system operating temperature
Environmental -40 to 162° F (-40 to 72° C) battery operating temperature
150 mph (241 kph) wind speed as per AASHTO LTS-6
Push button: ADA-compliant, piezo-driven with visual LED and two-tone audible confirmation
Activation Audible push button station: ADA-compliant, piezo-driven with visual LED and customizeab voice message confirmation
Passive activation: microwave-based sensor detects pedestrian
Warranty 5-year limited warranty