Pedestrian-actuated warning system for uncontrolled marked crosswalks

Available in both AC and solar power models, the SC315 brings new capabilities to the Carmanah RRFB product line:

- Passive activation: microwave-based sensor detects pedestrian
- Audible push button support
- Solar-power performance even in partial-shaded applications
- Use both solar and AC power models in the same application

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*.

Advanced User-Interface
The SC315 features an On-Board User Interface (OBUI) and display for quick configuration and status monitoring. It allows for simple in-the-field set-up and adjustment to flash duration, ambient settings, and night intensity. Settings are broadcast automatically to all units in the network.

Simplified Installation
All components, including the battery or AC power supply, Energy Management System (EMS) and optional audible push button controller are housed in a single, compact, purpose-built enclosure. It also incorporates a wire routing and termination system for clean and efficient installation.

Compatibility
Compatible with the Carmanah R920 RRFB. Interchange solar and AC power models within the same application.

Trusted
With thousands of installations, Carmanah solar flashing beacons and solar LED products have become the benchmark in traffic and signaling 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*. 
**CABINET DIMENSIONS**

Side View

Front View

3D View

**PANEL MOUNTING OPTIONS**

Top of Pole Configuration:
4 1/2" Diameter Round Post Mount

Side of Pole Configuration:
4" - 4 1/2" Diameter Round Post Mount

**SYSTEM CONFIGURATION**

Uni-directional Configuration

Bi-directional Configuration

**IN THE FIELD AIMING**

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

**RRFB CAPACITY CALCULATOR**

Calculate the performance of our Rectangular Rapid-Flashing Beacon in your location with our RRFB Capacity Calculator.

carmanah.com/RRFB-calculator

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

Specifications subject to local environmental conditions. Specifications may be subject to change.

US Patent No 6,573,659, Other patents pending. “Carmanah” and Carmanah logo are trademarks of Carmanah Technologies Corp. © 2018, Carmanah Technologies Corp.

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**SC315**

RECTANGULAR RAPID-FLASHING BEACON

Adjustable, auto-scrolling LED display

Field-configurable flash duration in one second increments

Ambient auto-adjust configuration

Night dimming configuration

Wireless update of configurable settings from any unit to all systems in local network

Channel selection

System test, status and fault detection

Activation data reporting

MUTCD compliant

Lens: 3” x 7”, durable polycarbonate
Lightbar Aperture: 2.6” x 5.8”
LED Color: Amber

Side emitting pedestrian confirmation lights

Exceeds SAE J595 Class 1 intensity

Meets SAE J578 chromaticity

High-power LEDs meet 90% lumen maintenance (L90) based on IES LM-80

Wireless 2.4GHz mesh technology

Cable management bracket

90-264 VAC input

On-board AC-DC power supply

50 watt high-efficiency photovoltaic cell with bypass diodes

Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) for optimal energy collection in all solar conditions

Replaceable, recyclable best in-class 12V dual battery system (sealed, maintenance-free)

Designed for minimum 5-year battery life

Aluminum housing with lockable tamper-proof hinged door

Integrated mounting for optional voice message push button controller

Side of pole and top of pole mounting to 4" diameter or larger poles

Premium, UV-resistant polycarbonate lenses

Waterproof LED indications (NEMA 3R)

Two-piece mounting bracket to facilitate mounting back-to-back lightbars

Horizontal rotation adjustment for in-the-field aiming of lightbar

Dimensions: 24” L x 1.5” W x 4.5” H

(61.0 cm L x 3.8 cm W x 11.4 cm H)

Rated for 660, 20 second activations per day, year-round operation with a minimum of 0.94 sun hours

Wireless activation within 150 mS

Wireless range of 500 ft (152 m)

ADA compliant, Piezo-driven push button with two-tone audible and visual LED confirmation

Passive activation: microwave-based sensor detects pedestrian

Optional push-button with voice message & visual LED confirmation

5-year limited warranty

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carmanah.com/RRFB-calculator