SC315-G
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-G is a cabinet-based system with a separate, high-power solar panel. This design enables the SC315-G 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-G 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-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-powered models within the same application.

**Trusted**
With thousands of installations, Carmanah’s beacons 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”
**SC315-G**

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### CABINET DIMENSIONS

- **Top of pole to bottom of panel**: 10.0" (254 mm)
- **Height**: 17.0" (432 mm) [50 W]
- **Width**: 21.0" (538 mm)
- **Depth**: 16.3 cm (603 mm)

### SOLAR PANEL MOUNTING

- **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)

### LIGHT BAR CONFIGURATION

- **Uni-directional Configuration**
- **Bi-directional Configuration**

### ACTIVATION OPTIONS

- **Push Button**
- **Audible Push Button Station**
- **Passive Activation Sensor**

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**Specifications subject to local environmental conditions, and may be subject to change.**

All Carmanah products are manufactured in facilities that are certified to ISO quality standards. US Patent No 6,573,659, Other patents pending.

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**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:** RFB1 (WW+S), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.5 sec. union (MUTCD), 0.1 sec. union, 0.25 sec. union, 0.1 sec. x3 quick flashes union, 0.1 sec. x3 quick flashes alternating
- **Input:** momentary for push button activation, normally open switch, normally closed 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 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**

**Solar Panel Mounting**

- **Purpose-built light bar optics = maximum efficiency and no stray light**
- **Exceeds SAE J578 class 1 intensity by 2.5 to 3x when used as recommended**
- **Meets SAE J578 chromaticity**

**Light Bar Configuration**

- **Uni-directional Configuration**
- **Bi-directional Configuration**

**Activation Options**

- **Push Button**
- **Audible Push Button Station**
- **Passive Activation Sensor**

**Environmental**

- **-40 to 165°F (-40 to 74°C) system operating temperature**
- **150 mph (241 kph) wind speed as per AASHO LTS-6**

**Warranty**

5-year limited warranty