R838

Wireless Beacon Controller

Local wireless beacon control for fire stations, emergency vehicle warnings, inspection and weigh stations, snow and chain-up service signs, and more.

Vehicle warning systems improve safety by increasing driver compliance and yield rates to station-exiting emergency vehicles.

- ✓ Alert drivers on demand with remote flashing beacon activation
- ✓ Compact, out-of-the-box designed to simplify installation
- Momentary or latching ON/OFF pushbutton activation with flash pattern (yellow) and power (red) confirmation lights
- ✓ Highest intensity beacon output in the industry
- ✓ MUTCD and Buy America compliant



Multiple configurations and methods of activation make the R838 controller an effective solution for a wide range of applications and environments.

Easy Installation

With its compact and robust design, installation is quick and easy. The R838 system ships ready to install with preconfigured activation and flash duration settings. The controller can easily be wall-mounted with common tools or used portably.

Advanced Controller Interface

The R838 controller comes with an on-board user interface for quick configuration and status monitoring. Beacon flash duration, night dimming, and ambient auto-adjust for overcast days can be configured in the field. Settings are automatically sent wirelessly to all beacon units in the system.

Reliable Operation

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.





R838 CONTROLLER wirelessly controls beacons from up to 1000 ft away



R820-E FLASHING BEACONS

warn drivers of stationexiting emergency vehicles

R838

Wireless Beacon Controller

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FLASHING BEACON ENGINES



R820-E Compact, 15w integrated solar engine

R820-F Large, 30w integrated solar engine

R820-G

Cabinet-based, 20w, 50w, and 80w solar and AC systems

SOLAR ENGINE MOUNTING

2.0"- 2.5" Perforated Square Pole Mount 2.38" - 2.88" Diameter Round Pole Mount 4.0" - 4.5" Diameter Round Pole Mount Side Pole Mount









EXAMPLE CONFIGURATIONS OF R838 BEACON

R820-E Engine, Dual Horizontal Beacons, WC-25 Sign R820-E Engine, Dual Horizontal Beacons, W11-8 and WB-102AT Signs



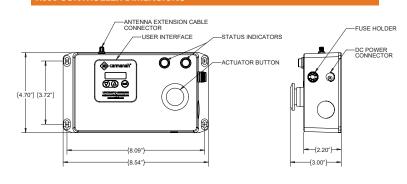




FLASHING BEACON SPECIFICATIONS		
Optical	MUTCD compliant: 2009 MUTCD, Chapter 4L, Flashing Beacons, Manual on Uniform Traffic Control Devices (MUTCD)	
	ITE VTCSH-LED Circular Signal Supplement compliant: meets ITE or 1.7x ITE intensity when used as recommended	
	12 in (305 mm) or 8 in (203 mm) diameter LED modules, yellow or red	
	High-power LEDs: +90% lumen maintenance (L90) based on IES LM-80	
	Yellow, black, or green signal heads in UV-resistant polycarbonate or aluminum	

CONTROLLER SPECIFICATIONS		
On-Board User Interface (OBUI)	Adjustable system settings with auto-scrolling LED display on our latest EMS	
	System test, status, and fault detection: button, radio	
	Flash patterns: 5 sec. to 1 hr.	
	Calendar: internal time clock function	
	Flash duration: 5 sec. to 1 hr.	
	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	
Connectivity	Encrypted, wireless radio with 2.4 GHz 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	
	Communicates with all other GenIII-U and GenIII radio-enabled systems including our R820-E, R820-F, and R820-G beacons	
	Instantaneous wireless activation: <150 ms	
	Wireless range: 1000 ft (305 m)	
	Integrated, vandal-resistant antenna	
	Extension antenna available	
Power System	AC: 15 VDC	
Power Supply	AC: 120 VAC to 15 VDC wall adapter (included)	
Controller Construction	Corrosion-resistant aluminum with stainless steel hardware	
	Raw aluminum finish or black powder coated	
	Prewired to minimize installation time	
	High-efficiency optics and EMS = the most compact, lightweight system	
	4.7" H x 8.54" W x 3" D (11.9 x 21.7 x 7.6 cm)	
Mounting Options	Wall mount or vehicle-mounted	
Environmental	-40 to 140° F (-40 to 60° C) system operating temperature	
Activation	Momentary pushbutton	
	Latching pushbutton	
	8 flash patterns available	
Warranty	5-year limited warranty	

R838 CONTROLLER DIMENSIONS













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.