

Solar-Powered School Zone Flasher - R829



Improve Safety

Carmanah's programmable solar school zone flasher is the most advanced solar LED system available. The Model R829 system will effectively improve driver awareness and reduce vehicle speeds in marked school zones.

Innovative Solar Design

The R829 is built using Carmanah's core energy management system, a technology proven in more than 250,000 installations in 110 countries.

This ultra-compact, self-contained system powers an industry standard LED module for reliable, maintenance-free operation. The R829 has been designed to work reliably under all environmental conditions throughout North America with no maintenance for five years.

Complete Solution

The R829 assembly includes the solar panel and electronics, all housed in a compact solar engine located above the ITE and MUTCD compliant LED module, so a separate battery or control cabinet is not required. The entire unit can be installed easily with no hardwiring needed.

Programmable Operation

The R829 is controlled using an intuitive Windows-based software program that can be scheduled to turn a system on and off several times per day in accordance with when children are going to and leaving the school grounds. Programs for multiple units can be easily set up once and then copied to all systems, avoiding repetitive and time consuming programming of each unit.

Quality is Assured

Carmanah manufactures in accordance with ISO 9001:2000 Quality Standards. The R829 is backed by a 12-month limited warranty.

Typical Applications include:

- Completely self-contained with no control or battery cabinet
- Flexible design enables any configuration of single, dual or bi-directional dual flashers
- Patented Energy Management System (EMS) optimizes system performance and ensures reliable operation
- MUTCD and ITE compliant

The R829 eliminates the need for external wiring, trenching, battery or bulb replacement, and maintenance for five years...



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SPECIFICATIONS

OPERATION

Flash pattern	MUTCD compliant
Activation	MUTCD compliant

LED SIGNAL MODULE

Standard	ITE VTCSH LED circular signal supplement*
Size	12" (300 mm) diameter 8" (200 mm) diameter

ENVIRONMENTAL

Optimal ambient range	-4 to 77 °F (-20 to 25 °C)
Maximum ambient temperature range	-40 to 176 °F (-40 to 80 °C)
Solar requirements: maximum installation latitude	55° North / South

ENERGY MANAGEMENT SYSTEM

Battery lifespan	5-8 years (field replaceable)
Operation capacity without solar charging	30 days
Daily operation profile	up to 12 hours per day

WIRELESS COMMUNICATIONS

Activation	Upload activation schedule for up to 500 days Download schedule for verification
Frequency	900 Mhz FHSS (frequency hopping spread spectrum)
Effective range	165 ft / 50 m line of sight

MOUNTING HARDWARE

Standard	Pelco traffic signal mounting hardware
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QUALITY STANDARDS

Quality certification	ISO 9001:2000 Certified Manufacturer
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WARRANTY

Term	12-month limited warranty (including batteries)
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* Meets all requirements for flashing beacons required by MUTCD, chapter 4D.18
All specifications are subject to change without notice.

A flexible design means the R829 can be configured as required:

- Bi-directional
- Vertical dual flasher
- Horizontal dual flasher

For extra clearance, security and flexibility, the top solar housing can be mounted on any length pole, independent of the signal heads



REPRESENTED BY

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Contact Carmanah for detailed written specifications on this product.