



Improve Safety

The solar-powered R820 will effectively improve driver awareness of pedestrians at uncontrolled crosswalks. This system is an extremely cost-effective solution for providing pedestrian safety at virtually any location where the sun shines.

Complete Solution

The Carmanah R820 is the most compact and efficient solar-powered, push button activated crosswalk warning flasher available. Using solar power and LED modules, the unit is designed to operate reliably with no scheduled maintenance for up to five years.

The solar panels, batteries and all electronics are all integrated in one solar engine at the top of the pole. This eliminates the need for cumbersome battery or control cabinets that are common targets for vandals and potential hazards for pedestrians.

Cost Savings

The R820 installs at a fraction of cost compared to hardwired systems. The R820 communicates wirelessly using advanced RF communication. This means no trenching, cabling or disruption of traffic flow during installation. Even the processes of obtaining power connection permits and underground checks are no longer required.

Quality is Assured

Carmanah manufactures in accordance with ISO 9001:2000 Quality Standards. The R820 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
- Replaceable battery pack to extend unit life
- MUTCD and ITE compliant

The R820 eliminates the need for external wiring, trenching, battery or bulb replacement, and maintenance for five years...



CHANGE THE WORLD WITH US™

Solar-Powered Pedestrian Beacon - R820



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° N / S

ENERGY MANAGEMENT SYSTEM

Battery lifespan	5-8 years (field replaceable)
Capacity without solar charging	30 days
Daily operation profile	300, 20 seconds activations per day (2 hrs cumulative)

WIRELESS ACTIVATION

Activation	Push button activation sends wireless signal to all units
Duration	5-60 second flash duration (adjustable by 5 sec. increments)
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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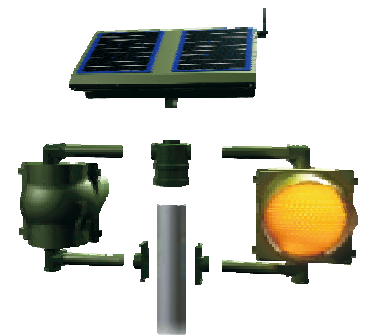
* Actual intensity less than ITE specification
All specifications are subject to change without notice.

REPRESENTED BY

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Contact Carmanah for detailed written specifications on this product.

A flexible design means the R820 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



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