EMERGENCY VEHICLE CAUTION SYSTEMS

Solar Lighting International

Solar Lighting International's Emergency Vehicle Caution System is designed to alert motorists approaching an emergency vehicle egress point.

When an emergency vehicle is about to emerge from its station and enter traffic, our system provides either a CAUTION (yellow) blinking light or STOP (red) light. It can be configured with one or two LED's per pole. The power source may either be AC or solar powered DC.

Each system is designed to match the specific requirements of the municipality. There are several ways to activate the lights, which are all wireless:

- Wall mounted transmitter with push button in building
- On board/console mounted push button transmitter
- Hand held transmitter
- Emitter (light or infrared signal) to receiver

Once activated the signal(s) remain ON for a pre-set period of time. The length the timer stays ON is determined and set by the user (from 1 second to 100 hours).

If the beacons are activated by radio transmission, multiple sites can be triggered instantly. Each receiver and transmitter has an individual address code, activating only receivers with the mathcing code. Any number or receivers can be set to a single address code. Signal poles have the capability of receiving a transmission miles away when positioned with line-of-sight. Because of this feature in some instances the flashing beacons are positioned further down the road away from the actual point of entry.

Because flashing light activation is wireless from the building or emergency vehicle to each pole, no trenching or boring to run wire/cables or a conduit is necessary.

Typical Solar Powered System

Three 3-section signal heads (solar powered).
Lights are green until fire station activates.

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A typical exterior installation consists of two or more poles. Each pole supports a small cabinet that houses the electronic controls. The electronics consist of a flasher, receiver and timer. If the unit is solar powered, inside the cabinet a charge controller and battery are added, and a solar panel with a rack (either side-of-pole or top-of-pole) is mounted on each pole.

Solar Lighting International's systems meet the Federal Highway Administration's MUTCD (Manual on Uniform Traffic Control Devices) and ITE (Institute of Transportation Engineers) standards.

STANDARD FEATURES

A standard system includes a transmitter to activate the system, poles, flashing beacon(s) with visor, and electronics cabinet with pre-assembled wiring for easy installation along with installation documentation.

- AC or DC Solar Powered
- System Flexibility: tailored to meet requirements or needs
- Programmable Timed Vehicle Exit
- CAUTION (amber) or STOP (red) Alerts: no price difference
- 8″ or 12″ LED Signal Heads: no price difference
- No Maintenance Battery: sealed gel or AGM
- AC: optional battery back-up
- Solid State Flasher (FS-2 Flasher)
- Meets MUTCD and ITE Standards

When AC power is not available or practical to power the signals, solar power is the answer. SLI's solar powered systems are sized by geographical location based upon electrical load for optimal effectiveness guaranteeing sufficient power for the flashing beacons—the light intensity never fades! Below are additional features for (DC) solar units.

- Self Contained
- Top or Side-of-Pole Mounting Rack
- No Power Interruption
- No Trenching or Boring for Cable
- No Electrical Bills
- Electrical Contractors Not Required for Installation
- Solid State FS-2 Flasher
- High Efficiency Self Cleaning Solar Modules with 20 Year Warranty
- Solar Charge Controller with LCD Display Showing Battery Voltage, Charge Current, and Load Current
- Maintenance Free AGM Deep Cycle Batteries: 5 Year Pro-rated Warranty
- Sized by Computer Program: Ensures Power Generated meets/exceeds Load Requirement
- LED Light Intensity is NOT Reduced as a function of Battery Voltage During Long Operating Times—signals stay bright!
- Flash Rate is Constant at Selected Rate: Does NOT Vary as a Function of Battery Voltage