



EMERGENCY VEHICLE CAUTION SYSTEMS

ELTEC's Emergency Vehicle Caution System (EVCS) is designed to alert motorists approaching a station access point when an emergency vehicle is departing.

When an emergency vehicle is preparing to emerge from its station and enter traffic, the EVCS provides either a CAUTION (yellow) or STOP (red) flashing beacon(s). The pole can be configured with one or two signals. The power source may be either AC or solar powered (DC).

Each system is designed to match the project requirements and street layout. Hard-wired systems are available, but wireless radio activation is less complicated; no trenching or boring to connect signals to the activation point. Multiple sites can be triggered simultaneously. There are several ways to activate the flashing beacons wirelessly:

- Wall-mounted Transmitter with Push Button.
- 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 preset period of time. The flashing duration is user adjustable (from 1 second to 100 hours).

For wireless radio systems, each receiver and transmitter are programmed with a unique address code for system isolation. Any number of receivers can be set to a single address code. Advanced warning signal poles can be positioned further down the road from the station exit.

A typical installation consists of a central activation device within the station. Outside, two or more poles support a small cabinet that houses the electronic controls. The components consist of a flasher, receiver and timer. If the unit is solar powered, a charge controller and battery are added inside the cabinet, and a solar panel with a rack is mounted on each pole.



Wall-mounted push button cabinet.



Typical solar powered EVCS.



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

INTERSECTION PRE-EMPTION SYSTEM

ELTEC can provide a receiver that's integrated into an intersection controller cabinet interrupting the normal signal cycle giving a 'green' priority in the direction that the emergency vehicle is traveling.

STANDARD SYSTEM 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.

- AC or Solar Powered.
- System Flexibility: Tailored to Meet Project Requirements.
- Programmable Timed Vehicle Exit.
- CAUTION (amber) or STOP (red) Alerts: No Price Difference.
- 8" or 12" LED Signal Heads: No Price Difference.
- AC: Optional Battery Back-up.
- Solid State Flasher.
- Meets MUTCD and ITE Standards.

When AC power is not available or practical to power the signals, solar power is the answer. ELTEC's solar powered Emergency Vehicle Caution System is sized by geographical location and electrical load for optimal effectiveness guaranteeing sufficient power during the long winter months. Daytime dimming of any signal is not in compliance with FHWA standards.

SOLAR POWERED FEATURES and BENEFITS

- Self-contained: No Electrical Bills.
- No Power Interruption.
- No Trenching or Boring Cable.
- Electrical Contractors: Technicians Not Required for Installation.
- High Efficiency Self-cleaning Solar Modules with 20 Year Warranty.
- Choice of Side-of-Pole or Post Top Panel Mounting Rack.
- Controller with LCD Display Showing: Battery Voltage, Solar Amps, Load Amps.
- Solid State Flasher (FS-2).
- No Maintenance AGM (Absorbed Glass Matt) Battery. Performs better in cold climates.
- 5 Year Pro-rated Warranty.
- Sized by Computer Program: Insures Power Generated Meets/Exceeds Load Requirements.
- Flash Rate is Constant at Selected Rate: Does Not Vary as a Function of Battery Voltage.

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



RUSS BENSON
Sales & Marketing

ph: 704.525.1852
fx: 704.525.1859
mb: 704.236.1885
russ@raiproducts.com
www.raiproducts.com
PO Box 240772
Charlotte, NC 28224



RAI Products
Traffic Control And ITS Solutions