

SOLAR TRAFFIC CONTROLS

“Wireless” Traffic Control Solutions

APPLICATION: *Flashing Beacon Systems for Low-flying Helicopters*

LOCATION: *U. S. Marine Corps Air Station, Miramar, CA U.S.A.*

Description

Traffic control devices range from simple items such as a static, diamond-shaped yellow warning sign to a fully signalized intersection. Roadway flashing beacon systems fall between these two extremes and provide cautionary warnings to motorists or serve as a regulatory device such as a flashing red lamp at a stop sign.

One project recently completed for the U.S. Marines involved flashing beacon systems to warn motorists of low-flying helicopters crossing a road running through an air base. The flasher had to be configured to receive a signal from the communications radio system and turn on for a minimum of one hour. The timer had to be retriggerable yet only after the first 20 minutes of run-time.

The flasher required a display to show the maximum run-time programmed into the unit once it was activated, and the elapsed time since the last trigger. When not operating, the flasher control display had to show a running count of the number of activation commands the unit had received and a built-in test mode activated from a TEST button on the control panel.

For this “smart” traffic system, we chose the IDEC Smart Relay® with the LCD display. The flexibility of 8 digital inputs, two of which can be converted to analog, and the LCD, provide a means of both prototyping and producing solar flashers with the advanced features DoTs are seeking.

We were able to modify our standard flashing beacon designs to accommodate the U.S. Marine project by using a special VHF radio receiver and the Smart Relay. The project was designed, built and shipped in less than one month.



Flashing beacon warns motorists of low-flying helicopters.



For more information

Joe Wise

Solar Traffic Controls, LLC

1930 East Third Street, Suite 21

Tempe, Arizona 85281-2929 USA

Phone: 480-449-0222

Fax: 480-449-9367

Email: joe.wise@solar-traffic-controls.com

Website: www.solar-traffic-controls.com

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Provide Your Requirements to Solar Traffic Controls

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Telephone (____) _____ Fax (____) _____

Cellular (____) _____

e-mail _____

The success of your solar-powered project is based on three things:

- **Location: where your application site is - nearest town and state**
- **Load: number and size of lamps, timers and other controls - anything which draws power.**
- **Duty Cycle: hours per day and number of days per week the load is active (on).**

The above information enables us to provide you with a Sizing Report which forms the basis of your warranty.

Type of System

(please check your requirements)

Solar Flasher

Lamp Size: 12 inches 8 inches Other - Please indicate size _____

Lamps per pole: 1 2 Other - Please indicate quantity _____

Lamp Color: Amber Red

Type: School Zone 24-Hour Sensor Activated

Run time: _____ hours per day _____ # of days per week

Module Option: Vandal Resistant Activation: Timer Pager

DCUPS Flasher

Lamp Size: 12 inches 8 inches Other - Please indicate size _____

Lamps per pole: 1 2 Other - Please indicate quantity _____

Lamp Color: Amber Red

Type: School Zone 24-Hour Sensor Activated

Run time: _____ hours per day _____ # of days per week

Module Option: Vandal Resistant Activation: Timer Pager

Sensor Power System

Sensor load: _____ amps/watts

Communications Load: _____ amps/watts

Location

Application Site (nearest town): _____

State/Province: _____

*Please fill in your requirements with **blue or black pen**. Please **fax** to Solar Traffic Controls at 480-449-9367. **Questions?** Please call us at 480-449-0222. We will contact you with a quote for your system.*