



**K&K Systems, inc.**  
Traffic Safety Products Manufacturer

## TRUCKS ENTERING HIGHWAY ADVANCED WARNING SYSTEM

K&K Systems' Solar Sign Alert™ Advanced Warning System utilizes the CrossTalk Advanced Controller and our Radar Sensor to trigger the *Trucks Entering Highway Sign Alert*. When the radar detects movement the CrossTalk wirelessly communicates with the Sign Alert to activate the ultrabright LEDs. Setup in the field is easy with the CrossTalk's onboard rotary switches set the Sign Alert's flash rate and duration. This Advanced Warning System easily retrofits to any existing system for a cost efficient solution.



*CrossTalk Advanced  
Lighting Controller*

### FEATURES

- ▶ On-board long range 900MHz local-area wireless (node)
- ▶ Inputs for low-power radar and other triggering systems
- ▶ Programmable rotary switches for simplified field configuration
- ▶ Built-in solar controller with Maximum Power-Point Tracking (MPPT) and 3-stage battery charging
- ▶ Low-voltage disconnect (LVD) battery management
- ▶ Optional GPS: concurrent reception of up to (3) GNSS services (GPS, Galileo, GLONASS, BeiDou)
- ▶ Real-Time Clock / Calendar (RTCC).
- ▶ Digital / PWM LED outputs (x4)
- ▶ RS-232 serial port
- ▶ Dry-contact / switch input - radar, rain sensor, etc.
- ▶ Digital inputs (x2) - radar, rain sensor, optical sensor, etc.
- ▶ Extended temperature operation: -40 to +85 deg C

# ADVANCED WARNING SYSTEM WITH RADAR SENSOR ACTIVATION

**SOLAR POWERED TECHNOLOGY** allows this system to operate virtually anywhere. It is extremely efficient and budget-minded compared to wired systems. K&K solar panels utilize the most up to date solar technology and electronics that maintain power levels through rain, sleet, heavy snow, or strong winds. The built-in blocking diode prevents the reverse flow of electricity. The panel is framed with heavy-duty aluminum for weather-resistant performance. The Control Box located under the solar panel is constructed of aluminum and designed to securely hold the solar panel and protect its contents from the elements.

**RADAR SENSOR** detects moving objects in a wide area. It has a heavy duty waterproof enclosure. Solar powered and simple installation allows this system to be used virtually anywhere.

**REFLECTIVE SIGN MATERIAL.** We use high intensity signage this is MUTCD compliant. Diamond Grade material is available.

**ULTRA BRIGHT LED LIGHTING** is the brightest in the industry. The LEDs will adjust brightness according to available light in order to conserve energy and battery life and maximize brightness. Adjust the flash rate from 50/50 to 90/10 duty cycle. They are completely weatherproof, also.

**CROSSTALK CONTROLLER** is an Advanced, Solar-Powered Lighting Controller. On-board cellular technology provides a secure cloud server connection offering real-time access with any internet connected device. Designed for multiple applications, CrossTalk controllers are used for a variety of traffic & safety applications. Utilizing solar power and both cellular and short-range wireless connectivity, CrossTalk applications can be setup quickly and provide more functionality and flexibility than traditional "wired" systems. A single CrossTalk can control multiple nodes across an entire campus and provide web connectivity for schedules, status monitoring, diagnostics, and real-time control.



## BENEFITS

- ▶ All controls are enclosed in a protective aluminum control box located under the solar panel.
- ▶ All wiring is concealed inside the sign to ensure protection.
- ▶ Wireless, radar trigger activation
- ▶ LED lighting for low energy consumption, but maximum light output.
- ▶ CrossTalk provides for control of multiple sign alerts in multiple locations from a desktop and/or mobile device.
- ▶ Replacement battery can be purchased "off the shelf"
- ▶ Multi-stage battery charger included.
- ▶ Lightweight design
- ▶ Easy Installation and setup
- ▶ Easily retrofits to existing system



The **Radar** detects a vehicle and triggers the **Sign Alerts** to flash for a set amount of time to warn drivers of vehicles entering the highway.



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