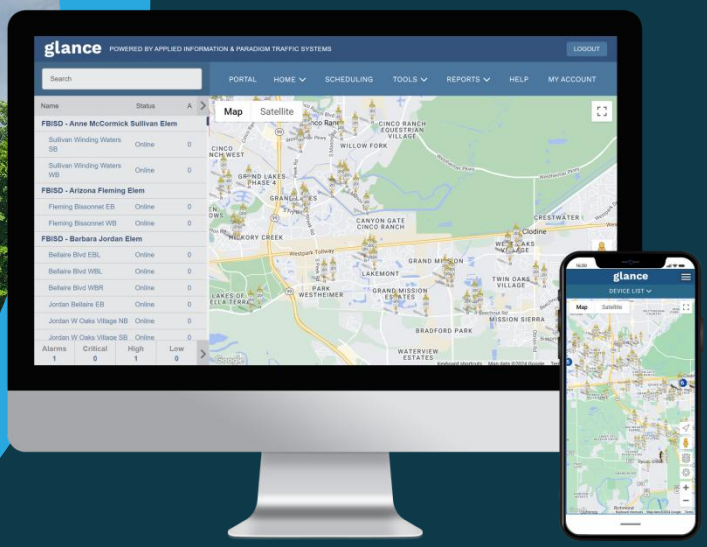


APPLIED® INFORMATION



AI-500-070-CV

School Beacon Timer Switch with C-V2X Communication

OVERVIEW

The AI-500-070-CV is the first ever solar-powered school beacon timer switch with built-in Cellular Vehicle to Everything (C-V2X) communication. This device equips School Beacon Flashers with C-V2X communications over 5.9 GHz direct radio and 4G LTE cellular network. The unit can be easily retrofitted into existing school beacon cabinets, making it a cost-effective way to upgrade beacons with the latest technology while providing future-proofing capabilities and a robust design.

The unit works with Glance®, providing a cloud-based school beacon solution. With C-V2X enabled, active school zone alerts can be sent through the Waze and HAAS Alerts applications, giving motorists advanced in-vehicle notifications. The unit also adds remote monitoring and control to school beacon equipment, allowing remote schedule configurations from Glance.

Glance provides 24/7 monitoring of school beacon status and health. Equipped with a self-calibrating knockdown detection device, the AI-500-070-CV can detect when a pole has been knocked down. Additionally, as soon as a problem is detected in the field, email and text alerts are sent to notify the necessary personnel of the exact fault.

FEATURES & BENEFITS

- Dual C-V2X communications
- C-V2X Direct 5.9 GHz (PC5)
- C-V2X Network (Uu)
- Solar powered
- Works with Glance
- Low power consumption
- Local manual override switch
- Monitor beacon lamps current
- GPS enabled for self-locating
- Built-in knockdown detection sensor
- Low-cost Internet connectivity solution
- Remotely change schedules to multiple devices

HARDWARE SPECIFICATION

AI-500-070-CV	
Connectivity	
Cell Modem	Yes
RS-232 Port	Yes
Ethernet Port (10/100 Base-T)	Yes
GPS	Yes
C-V2X Radio – 5.9 GHz	Yes
Knockdown Sensor	Yes

I/O	
Digital Outputs	2 X Beacon Control Circuits
Digital Inputs	Door Status
Analog Inputs	AC Voltage, Solar Battery Voltage, Solar Panel Voltage and Temperature

Miscellaneous	
Operating Systems	FreeRTOS Systems
Beacon Activated Light	Yes
Operating Temperature	-37°C to 74°C
Humidity	5–95% non-condensing
Dimensions	8" x 5" x 2"
Input Voltage	10–30 V DC, 120 V AC
Power Consumption	Idle - 3 W, Active - 3.5 W
Battery Backed Memory	Yes

Suitable for Monitoring	
Solar/Battery Power	Yes
Lamp Monitoring	Yes
Scheduling	Yes
Voltage Status (V DC or V AC)	Yes
Knockdown Detection	Yes

WORKS WITH glance™



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