

Intelligent Flashing Yellow Arrow

Overview

The Intelligent Flashing Yellow Arrow monitors and responds in real time to traffic at intersections in order to prevent dangerous crashes. The permissive left turn is one of the most dangerous conditions for road users, and although the deployment of the flashing yellow arrow has improved safety by making drivers more cautious when turning left across approaching traffic, more can be done.

Like the current standard operation, the Intelligent Flashing Yellow Arrow shows the flashing yellow arrow by default to advise drivers to be cautious. Unlike the current standard, however, the Intelligent Flashing Yellow Arrow is equipped with trajectory radar and connected vehicle technologies to detect when a vehicle is approaching from the opposite direction.

In these situations, the Intelligent Flashing Yellow Arrow changes the signal to a red arrow to indicate to the driver that they cannot turn safely. Once the approaching vehicle has passed and the intersection is no longer unsafe to cross approaching traffic, the signal reverts to the normal flashing yellow arrow.

The system uses trajectory radar, the TravelSafely connected road user app and future connected vehicle technology to monitor the speed, position, and direction of all vehicles approaching the intersection. The whole system is managed by the award-winning Glance Smart City Supervisory System, making monitoring and maintenance of the system easy.



Features

- ✓ Future proof with “over the air” software updates for new features and enables new flash patterns to be downloaded as required
- ✓ Glance System remotely monitors the reliability of the system
 - Including batteries, solar panels, AC voltage, and visual elements
- ✓ Text messages and email alerts whenever anything goes wrong

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Hardware Specification



AI-500-075

Connectivity

Cell Modem	Yes
Ethernet Port (10/100Base-T)	Yes

Industrial I/O

Analog Inputs	AC Power, Solar Batteries, Temperature
Digital Inputs	Beacon Status, Door Open Switch
Digital Outputs	2 X Beacon/Flasher Circuits 15 Amp

Miscellaneous

Operating Systems	µC/OS-II
GPS	Yes
Operating Temperature	-37°C to 74°C
Humidity	5-95% non-condensing
Dimensions	8" x 5" x 2"
Input Voltage	10-30v DC, 120V AC
Power Consumption DC	idle - 149mA avg; active - 212mA avg
Power Consumption AC	idle - 17mA avg; active - 24mA avg
Battery Backed Memory	Yes

Optional

Digital Message Sign	Yes
Lamp Monitoring	Yes
Scheduling	Yes
Radar Speed Detection	Yes

Solar Engine

Solar Panel	20W
Batteries	35 Ah
Solar Charger	Sun Saver 10 Amp
Circuit Breaker	

AC Engine

Circuit Breaker	
Wiring Points	