SIGNAL SERVICE INC. **Signal Service, Inc**., 43 Franklin Street, East Hartford, CT 06108, (860) 289-8033 phone/ (860) 289-8035 fax

Silicon Constellations

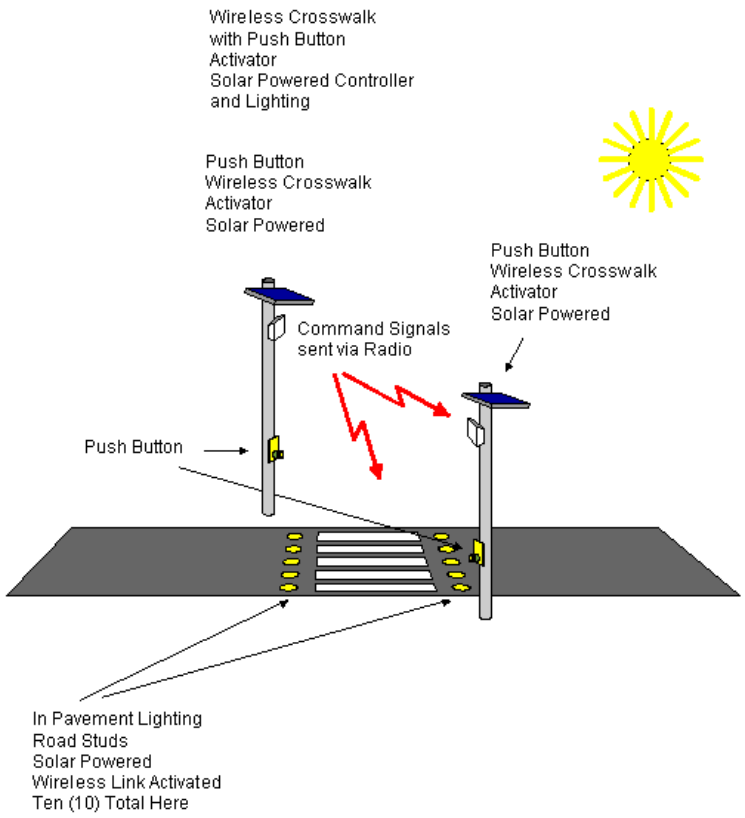
Luminescent in-roadway warning system

Fully Integrated Wireless Crosswalk System

Silicon Constellations can provide you with a fully operational wireless crosswalk system for easy installation at your selected site. We offer push button and motion detection activation with wireless communication to each Road Star™. An intuitive management software interface allows ample flexibility in configuring flash cycles, flash durations, and time-of-day programming at both a per marker or per system level. Several other energy saving features are provided such as the ability to configure the light to flash on the side of oncoming traffic only. The software also gives the user the ability to acquire statistics information on the crosswalk usage periods.

Installation Procedure

The wireless crosswalk is simple to install, a two-lane street can take less than 4 hours to complete. A 2 inch hole must be drilled into the pavement where a LumiStar™ will be placed. We provide a set of 4.75 diameter baseplates that are inserted into each hole and adhered to the pavement with epoxy. The LumiStar can then be screwed into the baseplate using the two tamper proof screws provided. At each side of the crosswalk a pre-assembled 2-3/8" x 12ft round-cap pole is mounted. This includes the LumiStar activator, solar panel and pushbutton for crosswalk activation. The final steps involve configuring the crosswalk to your specifications using our simple software tool.



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General Description

LumiStar™ is solar powered, wirelessly controlled, in-pavement, lighting marker. Ten high brightness LEDs are there to warn the drivers of pedestrian presence or hazardous road conditions. LumiStar™ luminescent markers are self powered and controlled via digital radio link.

No external wiring is required during installation. Installation is as simple as coring a 2-inch deep hole and adhering the marker socket into the road surface.

Applications

- Lighted Crosswalks
- Reversible Traffic Lanes
- Road Delineation
- Airport Runway Lighting
- Pedestrian Safety

Solar Power

LumiStar™ markers use high efficiency solar cells to charge their batteries for backup power. When fully charged this solar battery can power the LumiStar™ marker for up to 90 days.

Wireless Control

No trenching or saw cutting of the roadway is required since LumiStar™ markers use wireless radio control. LumiStar™ marker is controlled by the transceiver operating in the 2.4 GHz frequency range. Our proprietary protocol ensures reliable interference-free operation. MS Windows program and wireless programmer is used for convenient configuration of LumiStar™ markers. Pedestrian counts and status information may be gathered wirelessly onto a PC laptop. New flashing patterns may be easily created using the LumiStar™ Configurator software.

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IronStar™

Snowplow Compatible In-Pavement Lighting Marker

IronStar™ is snowplow friendly in-pavement lighting marker. IronStar™ kit includes one LumiStar™ lighting marker and the base socket specially designed for snow country. The base socket allows IronStar™ to be installed flush with the surface of the road. The stainless steel fixture is hardened to Rc 60 to withstand direct impact of the snowplow blade. Protective steel shield may be easily replaced if necessary. IronStar™ is solar powered, wirelessly controlled, in-pavement lighting marker for harsh winter conditions.

Figure 1. Stainless Steel Fixture

Specifications

LIGHTING FIXTURE

Outside Diameter
- 8.80 Inches

Visibility Range
- 400 ft day
- 1500 ft night

Lighting Fixture Type
- LumiStar 10 LED
- LumiStar 6 LED

INSTALLATION

Core Diameter
- 9.00 Inches

Core Depth
- 1.75 Inch

Fastening Methods
- Anchoring Epoxy
- Quickset Concrete

Height Above Pavement
- Flush Mounted
- Fully Adjustable