



Smart Crosswalk™ Wireless Solar RRFB System

LightGuard Systems Part Number: LGS-WRRFB-F

Description: Wireless Solar Powered Rectangular Rapid Flashing Beacon

Application Notes:

The MUTCD compliant LGS-WRRFB-F system is sold as a pair and used at pedestrian and school crossings, roundabouts, trails, mid-block crosswalks, and multi-lane crosswalks. The RRFB system is installed at both sides of the crosswalk and alerts motorists when pedestrians are in, or about to enter, the crosswalk. The system activates when a pedestrian pushes the ADA compliant push button. Each RRFB will flash for the cross time duration setting and uses FCC approved matched transceivers to securely communicate pedestrian activation from either crosswalk entrance up to 250 ft/75m apart.

Each solar panel is designed to support one LGS-RRFB-F up to 500 daily activations (30 seconds each) for 7 days without requiring a battery recharge. The controllers and transceivers are factory installed, assembled into a NEMA 4 rated cabinet. Installation consists of connecting the battery, solar panel, RRFB-F and push button to the enclosure mounted behind the static sign.

System Components:

2 pre-wired electronics enclosures; 2 wireless transceivers; 2 solar panels with side mount brackets; 2 batteries; 2 ADA compliant push button stations; 2-30" W11-2 or S1-1 diamond FYG static warning signs; and 2-12" x 24" static W16-7p diagonal down pointed arrow signs. **Not included:** Poles and Wire.

Available upgrades: front & side-facing LGS-RRFB-FS; automatic/passive LGS-T6 sensor bollard activation; LGS-RAD remote activation device.

Features/Benefits:

- Highly visible
- high-intensity LEDs
- Scalable solar power
- Low maintenance
- Wireless operation of RRFB system
- Simple electrical connections
- Internal branch circuit protection



LGS-WRRFB-F system with push button, W11-2-B sign, and solar panel

General Performance Specifications (Solar sizing based on estimated load.)		Operating Diagram
Parameter	Value	
Output Power	1 Watt (standby mode) 5 Watts (while flashing) 12 VDC nominal, 1 Amp	
Operating Temp	0°C to 50°C	
AWB Battery	12 VDC nominal, 35 AH sealed	
AWB Solar Panel	12 VDC nominal, 30 Watts min	
Current Protection	2 Amps circuit breaker – Solar Panel 2 Amps circuit breaker – Battery 2 Amps circuit breaker – RRFB	
Frequency	900 MHz	
Enclosure Type	NEMA 4 fiberglass 18" x 16" x 8", White	