



Wireless Solar RRFB School Crossing Sign System

Part Number: LGS-WRRFB-F-S1

Description: Wireless Solar Powered Rectangular Rapid Flashing Beacon with S1-1 School Crossing and W16-7p Down Arrow Signs

Application Notes:

The MUTCD compliant LGS-WRRFB-F-S1 system is sold as a pair and used at unsignalized school crossings, or mid-block 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 user-adjustable cross time duration, which is factory set to 20 seconds. The system 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-S1 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 RRFB-F; 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" S1-1 FYG static warning signs; and 2-12" x 24" static W16-7p diagonal down pointed arrow signs. **Not included:** Poles and Wire.

Alternate Activation Methods: LGS-T6 automatic (passive) activation bollard; LGS-RAD remote activation device.

Features/Benefits:

- Highly visible
- High-intensity LEDs
- Scalable solar power
- Low maintenance
- Wireless operation
- Simple electrical connections
- Internal branch circuit protection



RRFB-F with push button; S1-1 and W16-7p signs; 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		