

# FEDERAL SIGNAL

## Safety and Security Systems

### Model FB2LED

### Fireball® LED Warning Light

UL and cUL Listed for Type 4X, IP66 environments.  
IP69K-compliant enclosure  
25500560 Rev A3 0124

**Limited Warranty:** This product's limited warranty can be found at [www.fedsig.com/SSG-Warranty](http://www.fedsig.com/SSG-Warranty).

#### SAFETY MESSAGES TO INSTALLERS AND USERS

It is important to follow all instructions shipped with this product. This device is to be installed by a trained electrician who is thoroughly familiar with the National Electrical Code and/or Canadian Electrical Code and will follow the NEC and/or CEC Guidelines as well as all local codes. This device should be considered a part of the warning system and not the entire warning system.

The selection of the mounting location for the device, its controls, and the routing of the wiring are to be accomplished under the direction of the facilities engineer and the safety engineer. Listed below are some other important safety instructions and precautions you should follow:

- Read and understand all instructions before installing or operating the equipment.
- To avoid electrical shock hazards, do not connect wires when power is applied.
- In order to be an effective warning device, this product produces bright light that can be hazardous to your eyesight. The possibility exists that rapid flashing lights could induce photosensitive epilepsy. Do not stare directly at the light.
- Keep the unit tightly closed when in operation.
- After testing is complete, provide a copy of this instruction sheet to all operating personnel.
- Establish a procedure to routinely check the light installation for integrity and proper operation.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you or others.

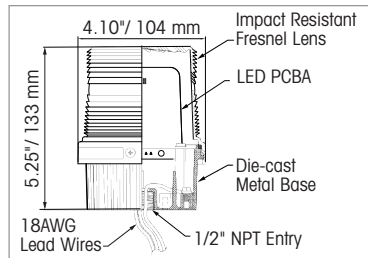
**OVERVIEW** – FB2LED is a high-powered LED signal that can be programmed to produce one of three light patterns: steady, 60 FPM, and 120 FPM (preset to 60 FPM). Unit is available in 12-24VDC or 120-240VAC UL/cUL Listed. Type 4X, IP66 enclosure. Electrical ratings: 0.48A - 0.24A (12-24VDC) or 0.03A (120-240VAC 50/60Hz). Suitable for indoor or outdoor use. IP69K compliant. Certified operating temperature: -49°F to 150°F (-45° to 66°C).



**Unpacking the Device** – After unpacking the device, examine it for damage and verify parts. The unit comes with (1) FB2LED assembled unit with flying leads, (1) Panel mount gasket, and (3) No. 8 x 1/2" panel mounting tapping screws. If a part is missing or appears to be damaged, do not attempt to install. Contact Federal Signal Customer Support at +1 708-587-3587 or [iorsdersup@fedsig.com](mailto:iorsdersup@fedsig.com).

## Mounting the device

Figure 1 Parts and measurements



The Model FB2LED comes standard to mount on a flat (horizontal or vertical) surface or 1/2" NPT threaded pipe. Vertical wall (LWMB2) or corner (LCMB2) mounting accessories are sold separately. Type 4X rated LSWB is also available for wall mounting.

- **Pipe Mounting:** Model FB2LED can be pipe mounted on a 1/2" NPT pipe. Feed wires through pipe and turn clockwise to tighten. The recommended tightening torque is 5 ft-lb (6.8 N-m).
- **Surface/Panel Mounting:** Using the provided gasket as a template, mark three mounting holes and a center hole for wiring. Drill or punch 0.188" (5.0 mm) diameter holes for mounting and a 0.88" (22.0 mm) hole for wiring. Set the base on the gasket, feed the wires through the center hole, and attach the unit to the mounting surface using the provided No. 8 tapping screws from the underside.

## Making the electrical connections

### **⚠ WARNING**

**WARNING – SHOCK HAZARD:** To avoid electrical shock, do not connect wires when circuits are energized.

#### 12-24 Vdc models

Connect the power source positive (+) lead to the red wire and connect the power source negative (-) lead to the black wire.

#### 120-240 Vac 50/60 Hz models

Connect the line (L or L1) power source lead to the black wire and connect the neutral (N or L2) power source lead to the white wire. Connect ground to the green/yellow wire if required.

#### Changing the light pattern with Power Select®

FB2LED is factory set to 60FPM, change to 120FPM or steady on by cycling the power.

1. Enter programming mode by turning the input power on and off three times at a rate of one cycle per second. This timing cycle must be adhered to or the programming request will be ignored.
2. To switch to the next light pattern, cycle the power from off to on. Repeat this step until you arrive at the desired flash pattern.
3. To exit programming mode and set the pattern in memory, let the light operate for at least 15 seconds or turn power off for more than 5 seconds.

#### Testing/Operating

After installation, test the system to verify that each signal operates, and establish a program for periodic testing of the device. Provide a copy of these instructions to all operating personnel.

## Maintenance and Service

**Technical Assistance:** Contact our Technical Support Team at +1 708-587-3587 or [signalsupport@fedsig.com](mailto:signalsupport@fedsig.com).

**Repair Service:** A return authorization is required. Contact your Authorized Distributor or Federal Signal Customer Support. Defective products under warranty will be repaired or replaced at Federal Signal's discretion.

**Product Returns:** Returns require authorization from Federal Signal. Contact your Authorized Distributor for more information on our return policy or to request a return.

## Ordering Replacement Parts

If your unit requires a part not listed below, it must be either replaced or repaired.

Table 1 Replacement parts

Description	Part Number
12-24 Vdc PCBA, Amber, Red, Green	K20000401A
12-24 Vdc PCBA, Clear, Blue, Magenta	K20000401A-01
120-240 Vac PCBA, Amber, Red, Green	K20000426A
120-240 Vac PCBA, Clear, Blue, Magenta	K20000426A-01
Corner Mount Bracket Assembly	LCMB2
Wall Mount Bracket Assembly	LWMB2
Wall Mount Type 4X Bracket Assembly	LSWB



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Additional translations available at [signaling.fedsig.com](http://signaling.fedsig.com)

Traducciones adicionales disponibles en [signaling.fedsig.com](http://signaling.fedsig.com)

Customer Support 1-800-344-4634+1-708-534-4756, [iordersup@fedsig.com](mailto:iordersup@fedsig.com)

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