

Model FB2LEDX-QC

Fireball® Hazardous Location

Quad-Color LED Warning Light

UL and cUL Listed for CID2, Type 4X, IP66 environments.
IP69K compliant enclosure.



Installation and Maintenance Instructions

Limited Warranty: This product's limited warranty can be found at www.fedsig.com/SSG-Warranty.

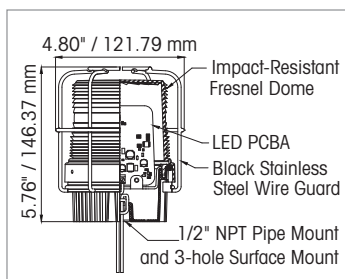
Safety Messages to Installers and Users  This product should be installed to code by a licensed electrician and follow all safety instructions. Failure to do so may result in property damage, serious injury, or death.

- Read and understand all instructions before installing or operating the equipment.
- **WARNING - EXPLOSION HAZARD:** Do not disconnect the equipment unless power has been switched off or the area is known to be non-hazardous. To reduce the risk of ignition due to electrostatic discharge, avoid contact with the unit while an explosive atmosphere is present. Clean only with a damp cloth.
- 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.

Overview: FB2LEDX-QC is a high-powered, multi-colored, and multi-flash pattern LED signal that can produce four different colors and three different flash patterns in one unit. The available colors are amber, blue, green, and red and the available flash patterns include steady, 60 FPM, and 120 FPM. It is available in 12-24VDC or 120-240VAC.

Certifications & Ratings:

- UL and cUL Listed for Class I, Division 2, Groups A, B, C, and D (T5); Class II, Division 2, Groups F and G (T6); Class III (T6); or non-hazardous locations only.
- Type 4X, IP66
- IP69K Compliant
- Electrical ratings: 0.32A-0.17A (12-24VDC) or 0.055A (120-240VAC)
- Certified Operating Temperature: -40°F to 150°F (-40° to 66°C).



Unpacking the Device: After unpacking the device, examine it for damage and verify parts. The unit comes with: (1) FB2LEDX-QC 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 damaged do not attempt to install. Contact Federal Signal Customer Support at +1 708-587-3587 or ordersup@fedsig.com.

Mounting the Device: Model FB2LEDX-QC comes standard to mount on a flat (horizontal or vertical) surface or 1/2" NPT threaded pipe. Wall mounting bracket (LHWB) sold separately.

- **Pipe Mounting** – Model FB2LEDX-QC can be pipe mounted on a 1/2" NPT pipe. Feed wires through pipe and turn clockwise to tighten. Recommended tightening torque is 5-ft-lbs (6.8 N-m).
- **Surface/Panel Mounting** – Using provided gasket as a template, mark three mounting holes and center hole for wiring. Drill or punch 0.188" (5.0mm) diameter holes for mounting and a .88" (22.0mm) for wiring. Set base on gasket, feed wires through center hole, and attach to the mounting surface using provided No. 8 tapping screws from the underside.

Electrical Connections ⚠ To avoid electrical shock, do not connect wires when circuits are energized.

- **12-24VDC Models** – Connect the power source positive (+) lead to the solid-colored red wire and connect the power source negative (-) lead to the solid-colored black wire.
- **120-240VAC 50/60Hz Models** – Connect the line (L or L1) power source lead to the solid-colored black wire and connect the neutral (N or L2) power source lead to the solid-colored gray wire. Connect ground to the green/yellow wire if required.

Electrical Connections for Color/Flash Pattern Combinations: Model FB2LEDX-QC can produce 16 different color/flash pattern combinations. The color/flash pattern wires are white striped and are distinct from the solid-colored power wires. Use the table below to achieve desired color/flash pattern combination.

PATTERN	WIRE COMBINATIONS				PATTERN DESCRIPTION
0					BLUE - 120FPM
1				Y	AMBER - 60FPM
2			B		BLUE - SIMULATED STROBE
3			B	Y	AMBER - STEADY-ON
4		G			GREEN - STEADY-ON
5		G		Y	AMBER - 120FPM
6		G	B		GREEN - 60FPM
7		G	B	Y	BLUE - STEADY-ON
8	R				RED - 120FPM
9	R			Y	AMBER - SIMULATED STROBE
10	R		B		RED - 60FPM
11	R		B	Y	BLUE - 60FPM
12	R	G			RED - STEADY-ON
13	R	G		Y	RED - SIMULATED STROBE
14	R	G	B		GREEN - 120FPM
15	R	G	B	Y	GREEN - SIMULATED STROBE

Examples of How to Use the Color/Flash Pattern Combination Table:

- To select BLUE-120FPM. No connection of the color flash pattern wires is necessary. Leave all wires unterminated.
- To select AMBER-60FPM. Connect the yellow/white wire to the input power wire (red + or black Hot/Line). Leave all other wires unterminated.
- To select BLUE-STEADY-ON. Connect the green/white wire, blue/white wire, and yellow/white wires to the input power wire (red + or black Hot/Line). Leave all other wires unterminated.
- To select GREEN-SIMULATED STROBE. Connect the red/white wire, green/white wire, blue/white wire, and yellow/white wire to the input power wire (red + or black Hot/Line). Leave all other wires unterminated.

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

Ordering Replacement Parts and Accessories: Consult product datasheet online for an updated list of replacement parts. If this product requires a part that is not available for purchase, your unit must be repaired or replaced. The product's dome should be regularly inspected for scratches or chips, and if damaged it must be replaced.

Technical Assistance: Contact our technical support team at +1-708-587-3587 or 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. Lamp failures excluded.

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



FEDERAL SIGNAL

Safety and Security Systems

2645 Federal Signal Drive, University Park, Illinois 60484

Additional translations available at signaling.fedsig.com

Traducciones adicionales disponibles en signaling.fedsig.com

Customer Support 1-800-344-4634+1-708-534-4756, iordersup@fedsig.com

Technical Support 1-800-755-7621+1-708-587-3587, signalsupport@fedsig.com