MODEL LP3M

INSTALLATION AND SERVICE INSTRUCTIONS
FOR STREAMLINE™ LP3M STROBE LIGHTS

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INSTRUCCIONES PARA LA INSTALACIÓN
Y MANTENIMIENTO DE LAS LUCES
ESTROBOSCOPICAS LP3M STREAMLINE™

MODELE LP3M

INSTRUCTIONS D'INSTALLATION ET DE RÉPARATION
DES LAMPES STROBOSCOPIQUES STREAMLINE™ LP3M

Address all communications and shipments to:
Dirija todos la correspondencia y envíos a:
Adressez toutes les communiations et expéditions à:

FEDERAL SIGNAL CORPORATION
Electrical Products Division
2645 Federal Signal Drive
University Park, IL 60466-3195

INSTALLATION AND SERVICE INSTRUCTIONS FOR STREAMLINE™ LP3M STROBE LIGHTS

SAFETY MESSAGE TO INSTALLERS, USERS AND MAINTENANCE PERSONNEL

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/Canadian Electrical Code and will follow the NEC/CEC Guidelines as well as local codes.

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

- Read and understand all instructions before installing or operating this equipment.
- Disconnect light from the power supply before any installation or maintenance is performed.
- After installation, test the light system to ensure that it is operating properly.
- 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.
- The product nameplate, which may contain cautionary or other information of importance to maintenance personnel, should not be obscured in any way.

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

I. INSTALLATION

A. Unpacking

After unpacking the light, examine it for damage that may have occurred in transit. If the equipment has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of the damage. Carefully check all envelopes, shipping labels and tags before removing or destroying them.

B. Mounting

The Model LP3M lights are designed for mounting on a flat surface or in a 1/2" NPT hub.

1. Hub Mounting

a. Locate gasket on mounting surface and align light with hub opening.

b. Thread light into hub by turning clockwise.

c. Refer to section D for information on making electrical connections.

2. Panel Mounting

a. Drill or punch 7/8" (22.2 mm) diameter hole in mounting surface.

b. Locate gasket on mounting surface and set light on top of gasket. Tighten supplied locknut to secure the light.

c. Refer to section D for information on making electrical connections.

C. Specifications

Operating Voltage	12-48 VDC	120 VAC 50/60 Hz	230-240 VAC-50/60 Hz
Operating Current	0.44-0.10 A	0.10 A	0.07A
Energy Output	2.0 Joules	2.0 Joules	2.0 Joules
Flash Rate	65-95 FPM	65-95 FPM	65-95 FPM
Operating Temperature	-31°F to 150°F (-35°C to 66°C)		
Approvals	UL, cUL		
Additional Approvals	CE (excluding all 120/240VAC models)		
Environmental Ratings	Indoor/Outdoor Use, Type 4X, IP66		

D. Electrical Connections

The model LP3M comes assembled from the factory. Models are supplied with a two position terminal block for making electrical connections.

WARNING

To avoid electrical shock hazards, do not connect to supply circuit when power is applied.

1. Remove the lens from the housing by turning counter-clockwise.
2. Remove the printed circuit board assembly by depressing the two snap tabs inside the housing and lifting the board assembly upwards.
3. Route supply wires (14 AWG to 18 AWG) into the housing through the hole in the housing.
4. Strip a maximum of 0.25” (6.4 mm) of wire insulation from the ends of the power leads. Connect wires to terminal block by inserting the stripped ends of the wire into the connector as far as they can travel and tightening the clamping screw.

NOTE

Be sure to observe polarity on the 12-48 VDC printed circuit board assembly. The terminals are designated by a “+” and “-” on the terminal block for the positive and negative supply leads, respectively.

The maximum tightening torque is 5 in-lb (.6 Nm) for field wiring connections on the terminal block. Make sure power supply lead insulation is flush with connector. If stranded wire is used, be sure that there are no loose strands outside the connector that could touch the adjacent lead to cause a short circuit.

5. To reassemble, snap printed circuit board assembly into housing making sure that the board rests on its’ mounting platforms. Take care not to pinch supply wires when inserting board.
6. Thread lens onto housing by turning clockwise until lens is fully seated.
7. Install supplied locking screw on lens to secure.
8. Energize the supply circuit and test strobe light for proper operation.

II. STROBE TUBE REPLACEMENT

After extended operation, occasionally check for flash tube degradation. Should the flash tube misfire, have a noticeable decrease in light output, glow continuously or darken-replacement is necessary.

WARNING

High voltages are present inside the light assembly. Wait at least 5 minutes after shutting off the power before servicing the unit.

A. Disconnect power from the supply circuit and wait five minutes before opening unit to allow all capacitors to discharge.

B. Loosen locking screw on lens and remove lens from housing by turning counter-clockwise.

C. Carefully remove the old strobe tube by grasping the connector and lifting upwards.

D. Replace lamp with Federal Signal part number K149130A. Install new strobe tube by fully seating it into the receptacle on the printed circuit board.

E. Attach lens to housing by turning clockwise until seated.

F. Tighten locking screw on lens to secure.

III. SERVICE

The Federal factory will service your equipment or provide technical assistance with any problems that cannot be handled locally.

Any units returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization. This R.M.A. can be obtained from a local Distributor or Manufacturer's Representative.

At this time a brief explanation of the service requested, or the nature of the malfunction, should be provided.

Address all communications and shipments to:

FEDERAL SIGNAL CORPORATION
Electrical Products Division
Service Department
2645 Federal Signal Drive
University Park, IL 60466-3195

IV. REPLACEMENT PARTS

Description	Part Number
Strobe tube	K149130A
Lens, Amber	K8589006A
Lens, Blue	K8589006A-01
Lens, Clear	K8589006A-02
Lens, Green	K8589006A-03
Lens, Red	K8589006A-04
Gasket, LP3M	K8589029A
Gasket, Lens	K8589012A
Printed circuit board assy, 120VAC	K2001317A
Printed circuit board assy, 240VAC	K2001317A-01
Printed circuit board assy, 12-48VDC	K2001316B

V. UNDERWRITERS LABORATORIES WARNING EXPLANATION.

“Warning-Not to be used as a visual public mode alarm notification appliance”

WHAT DOES THIS MEAN?

Underwriters Laboratories uses two different standards to investigate and List visual signal appliances. The first UL Standard for Safety is UL1971 - Signaling Devices for the Hearing Impaired. This standard covers visual signaling devices intended for fire alarm systems to alert the hearing impaired. The second UL Standard for Safety is UL1638 - Visual Signaling Appliances-Private Mode Emergency and General Utility Signaling. While this standard may also cover visual signal appliances, it does not include the determination of adequacy relative to alerting hearing-impaired individuals in a fire alarm system.

To prevent misapplication of a visual signal appliance Listed to UL1638, UL determined it is the manufacturer’s responsibility to warn the installer in the field and Authority Having Jurisdiction (AHJ) of what would be an inappropriate use of the product. Therefore, manufactures whose products Listed to UL1638 are required by Underwriters Laboratories to bear the warning, *“Warning - Not to be used as a visual public mode alarm notification appliance”*.

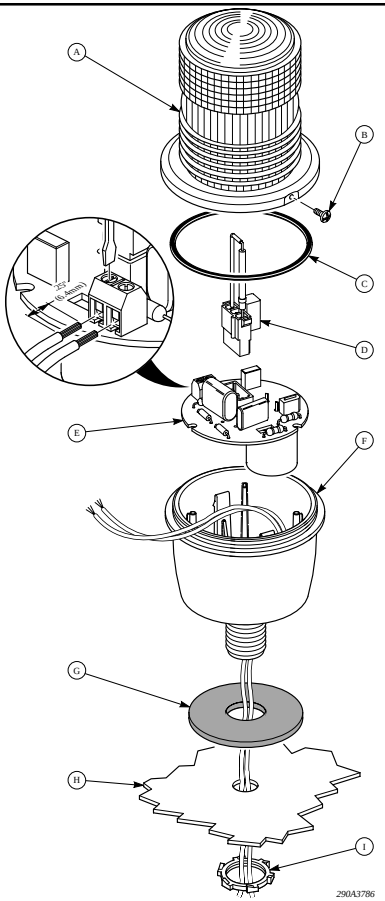
“Public Operating Mode” and “Notification Appliance” as defined in the National Fire Alarm Code, NFPA 72 is as follows:

Public Operating Mode - Audible or visible signaling to occupants or inhabitants of the area protected by the fire alarm system.

Notification Appliance - A fire alarm system component such as a bell, horn, speaker, light, or text display that provides audible, tactile, or visible outputs, or any combination thereof.

In other words, this device **should not** be used as a component of a commercial fire alarm system.

1



English

A. Lens
B. Screw
C. Lens gasket
D. Strobe tube
E. Printed circuit board assembly
F. Housing, LP3M
G. Gasket, LP3M
H. Mounting surface
I. Locknut

Español

A. Lente
B. Tornillo
C. Junta plana del lente
D. Tubo estroboscópico
E. Ensamblaje de placa de circuito impreso
F. Caja, LP3M
G. Junta plana, LP3M
H. Superficie de montaje
I. Tuerca de fijación

Français

A. Lentille
B. Vis
C. Joint d'étanchéité de lentille
D. Tube stroboscopique
E. Montage de plaquette de circuits imprimés.
F. Boîtier, LP3M
G. Joint d'étanchéité, LP3M
H. Surface de montage
I. Contre-écrou