



The Illuminator™ (EVFT) Fluorescent Lighting Fixture with S658 Fusing Option

SAVE THESE INSTRUCTIONS
FOR FUTURE REFERENCE

IF1191

Installation & Maintenance Information

APPLICATION

Fluorescent ballasts are not necessarily fused for the same reasons as other electrical equipment.

Fire protection, and protection of equipment and wiring are the principle reasons for individually fusing electrical equipment. Other reasons are to prevent release of vapors or objectionable liquids or to isolate the faulty equipment before it trips a branch circuit breaker.

Ballasts for fluorescent lamps are generally constructed so malfunctioning of the lamp - even a short circuit lasting indefinitely -

would not destroy the ballast. Fusing, in an attempt to avert ballast damage, is therefore unnecessary.

The principle reason for fusing fluorescent ballasts is to remove the faulty fixture(s) from the circuit before it results in a branch circuit outage, possibly causing an area to be in darkness. Fuses are installed in each ungrounded conductor supplying AC power to the fixture. A fuse is not installed in the neutral conductor.

For 120 and 277 volt AC systems one fuse is installed in the ungrounded supply line.

WARNING

Electrical power must be OFF before and during installation and maintenance.

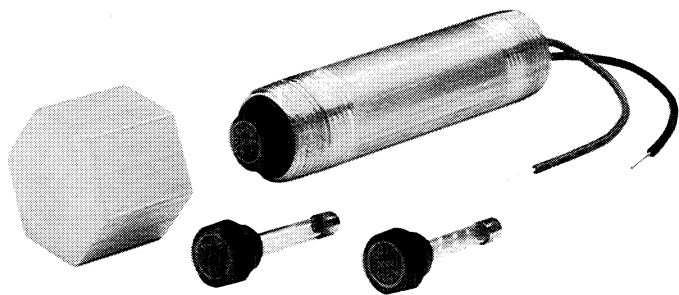
- For The Illuminator series fixture suitable for Class I, Group B & C applications, the in-line fuse is factory installed in the ungrounded supply line. No fuse holder installation procedure is required. Follow fixture installation per Installation & Maintenance Information IF1143 (provided).

NOTE: Illuminator fixtures suitable for Class I, Groups B & C are marked with the catalog number suffix "-GB" on the fixture nameplate.

- For The Illuminator series fixture suitable for the following applications:

Class I, Group D
Class II, Groups E, F, G
Class III
Marine
Simultaneous Presence
Paint Spray

An EVFT-KIT1 in-line fusing kit has been provided as an accessory.



EVFT-KIT1

The EVFT-KIT1 assembly consists of a factory sealed in-line fuse holder with two pigtail leads for connection to the ungrounded supply line. The proper fuse is selected from the three "GLR" type fuses provided based upon the electrical requirements of the fixture purchased.

Fixture	Fuse Rating
EVFT22320 2 lamp, 120V	3.0 Amp
EVFT24320 4 lamp, 120V	5.0 Amp
EVFT22370 2 lamp, 277V	1.5 Amp
EVFT24370 4 lamp, 277V	3.0 Amp

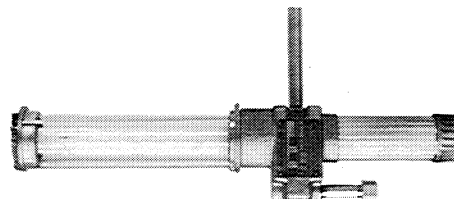
Fuse Installation into EVFT-KIT1 Assembly

- Select the properly rated fuse from table above.
- Remove threaded end cap from in-line fusing housing.
- Install fuse by turning knob of the fuse holder clockwise 1/4 turn until snug.
- Replace the threaded end cap until tight. A minimum of five full threads must be engaged.

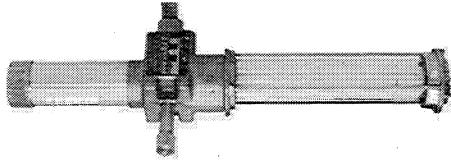
Installation of the EVFT-KIT1 Assembly

- Remove the threaded wiring chamber cover (fixture center section). For four lamp fixture, remove the wiring chamber cover located closest to the nameplate.
- Select the desired mounting configuration and choose a conduit entry which will not be used. If the fixture is to be pendant mounted, remove the 3/4 inch PLG plug from the ballast side ceiling hub.

If the fixture is to be ceiling or wall mounted, remove the 3/4 inch PLG plug from the pendant hub.



Pendant mounted fixture
w/EVFT-KIT1 installed.

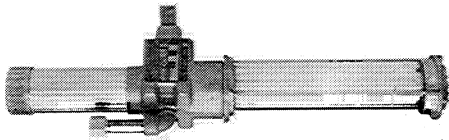


Ceiling (or wall) mounted
fixture w/EVFT-KIT1 installed.

3. Install the EVFT-KIT1 assembly into the unused conduit entry, and pull the pigtail leads into the wiring chamber. EVFT-KIT1 must be engaged until tight, a minimum of five full threads. Place all wire connections well within the wiring chamber away from the threaded opening area, so as not to interfere with the factory completed ballast wiring.

WARNING

All unused conduit openings must be plugged. Plug must engage a minimum of five full threads. Use PLG explosion-proof plugs supplied with fixtures.



Ceiling (or wall) mounted fixture
w/EVFT-KIT1 installed using EL296.

NOTE: If fixture is to be ceiling or wall mounted, the EVFT-KIT1 assembly will be threaded into the unused pendant hub. To eliminate possible obstruction to nearby personnel or fixture light output, it is recommended that the EVFT-KIT1 be attached so its position will be parallel to the ballast housing of the fixture.

This parallel positioning can be accomplished with an explosion-proof 90 degree, male and female elbow, Crouse-Hinds catalog number EL296.

4. Continue with fixture installation per Installation & Maintenance Information IF1143 (provided with fixture) and connecting EVFT-KIT1 leads to ungrounded black supply line and black fixture line lead.

Fuse Replacement

WARNING

Electrical power must be OFF and fixture COOL to touch before and during fuse replacement.

Replacement fuses, "GLR" type, are available from Bussman, a Division of Cooper Industries, and other fuse holder manufacturers.

1. Remove threaded end cap from EVFT-KIT1 assembly.
2. Turn knob of the fuse holder counterclockwise 1/4 turn and remove fuse/knob assembly.

NOTE: Fuse and knob are a permanent assembly. DO NOT attempt to disassemble.

3. Install new fuse/knob assembly and replace end cap. End cap must be engaged until tight, a minimum of five full threads.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.



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