

EPC-1-M

◆ Applications and Instructions ◆

Applications

- The room switch turns on and off both regular and emergency luminaires simultaneously. This is accomplished by having the room switch leg power activate the **Emergency Power Control, EPC-1-M**.
- In the past all emergency lights had to be on 24 hours a day to meet safety codes. However, now you can specify and install a UL 924 listed emergency power control device that can convert and control up to 20 regular light fixtures to approved emergency lights, which can then be turned on and off in the same manner as your regular lights. The emergency power control Model EPC is ceiling mounted in a single gang plaster ring and is usually located in the room or area where the emergency fixtures are.



Patented Automatic Diagnostic Feature

The unique feature of the EPC-1-M is the ability to place the unit in any location because the unit does not require an accessible test switch. Instead, when the room switch is turned off, the emergency luminaires stay on for 2.5 seconds and indicate that an emergency power source was available and that the EPC-1-M, ballast, and lamp(s) are all functioning correctly.

This feature eliminates the need for manual monthly testing and is approved for this purpose.



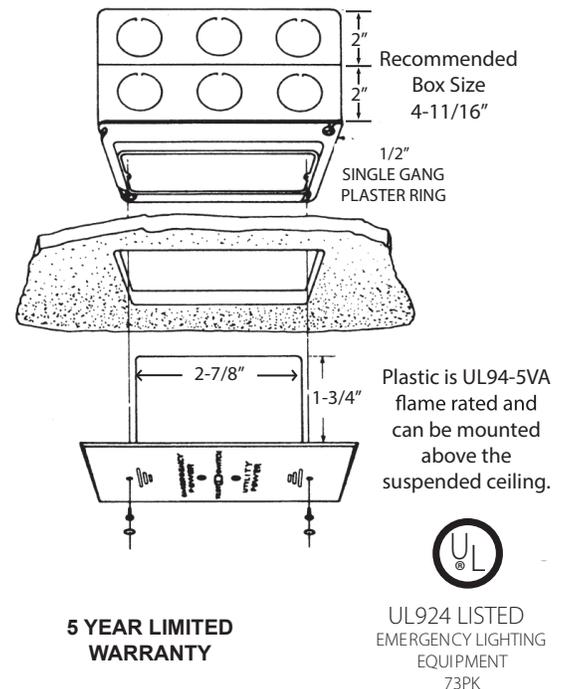
**Fire Alarm, Remote Test &
0-10V Dimming Options Available**

Emergency Power Source and Method of Operation

- The emergency luminaire power is derived from a 24 hour central emergency power source. The local utility power company normally supplies the power through a UL1008 Transfer Switch or equal, but during a utility power failure, the transfer switch automatically switches to the emergency power source.
- The room switch turns on and off both regular and emergency luminaires simultaneously. This is accomplished by having the room switch leg power activate the **Emergency Power Control, EPC-1-M**.
- Wire input #1 or #2 and neutral are connected internally to a sensing circuit. During a power interruption on the sensing input, this circuit causes contact X to drop into a N.C. position and turns on the emergency load(s). Review wiring diagram, on reverse, for details.

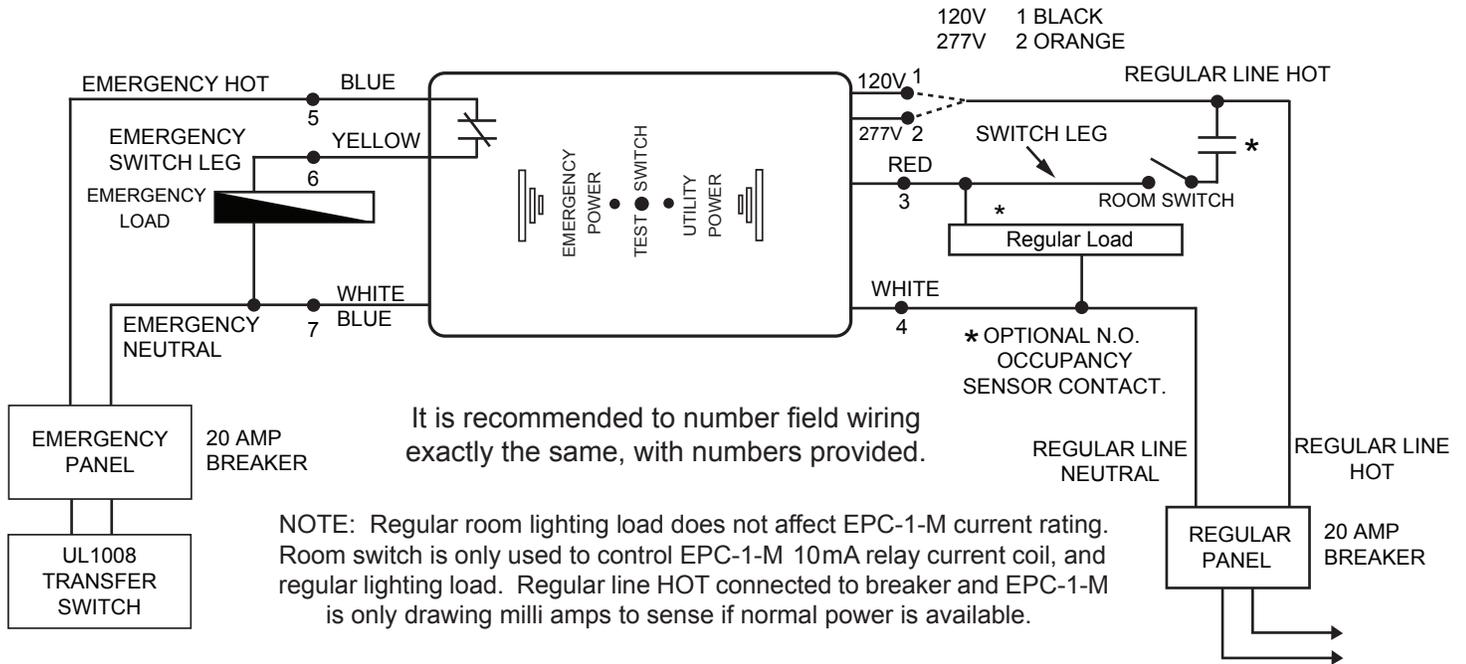


EPC-1-M Flush Mount Ceiling Installation



Mule Lighting, Inc. 46 Baker Street, Providence, RI 02905
Phone: (800) 556-7690 | Fax: (401) 941-2929
www.mulelighting.com

Model EPC-1 Wiring



Installation

In order to install the EPC-1-M in accordance with national/local code requirements, a qualified electrician should review and understand the installation instructions: Check voltage and current requirements. Verify and lock out circuit breakers on both normal power and 24 hours emergency circuit. Install a self-adhesive 2" x 3" caution label in each fixture or load controlled by an EPC-1-M unit cautioning that this load is supplied from 2 different power sources, regular and emergency. Review wiring diagram and connect wires, one group at a time, in accordance with the numeric identification.

In order to provide a safe light level, when regular power is interrupted, it is recommended that a minimum of two 4' fluorescent tubes providing approximately 5000 lumen are controlled by a 24 hour emergency circuit and are spaced no farther than 24' in any direction from each other in a normal 9' white ceiling environment.

Electrical Specifications

Model EPC-1-M-120/277
120V or 277V Sensing Input
120V or 277V Load
20 Amp Ballast Load Rating
1800W Incandescent Load Rating at 120V
1500W Incandescent Load Rating at 277V
N.C. Contact
UL924 Listed

Mechanical Specifications

Mounts in 4-11/16" Junction Box
with single gang plaster ring
UL94-5VA Rating
Shipping Weight: 8 oz
Temperature: 32°F - 140°F | Color : White
Flush Mounted Size: 4-3/4" x 2-3/4" x 1/4"
Body Size: 2-7/8" x 1-3/4" x 1-3/4"

**5-Year
Limited Warranty**

Initial Testing and Troubleshooting of EPC-1-M

In a new installation, where 10 or 100 separate devices may be used, each having as many as 14 wires to be correctly connected, it is important that a fast convenient method is used to check the connections. In order to test that the wires are connected correctly, without any inconvenience to other occupants, do not turn off regular utility supplied power or turn on the emergency generator until you have checked each EPC device and light fixtures using the following methods.

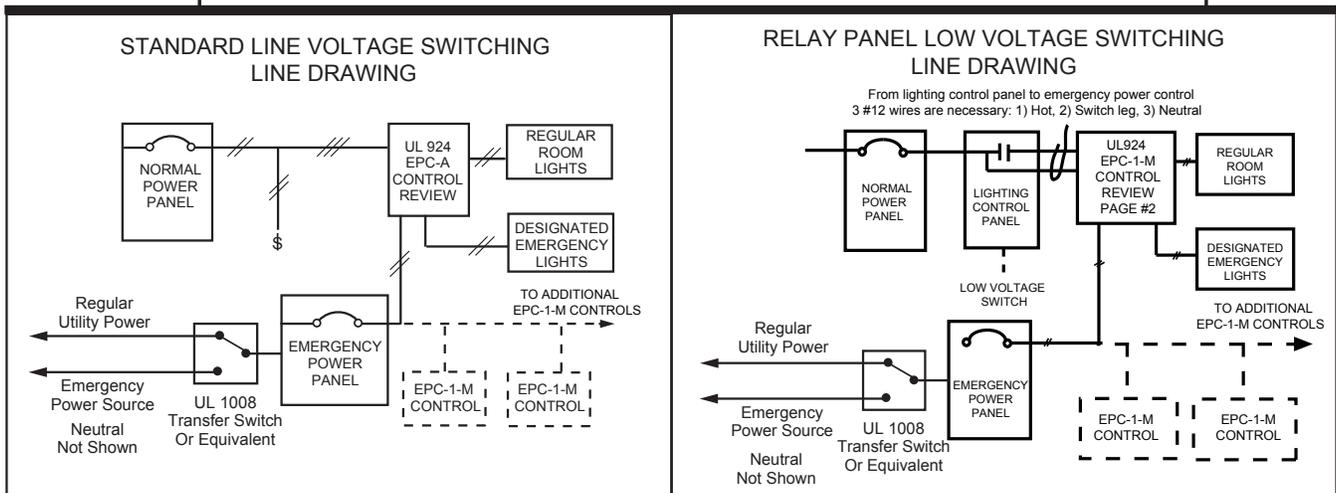
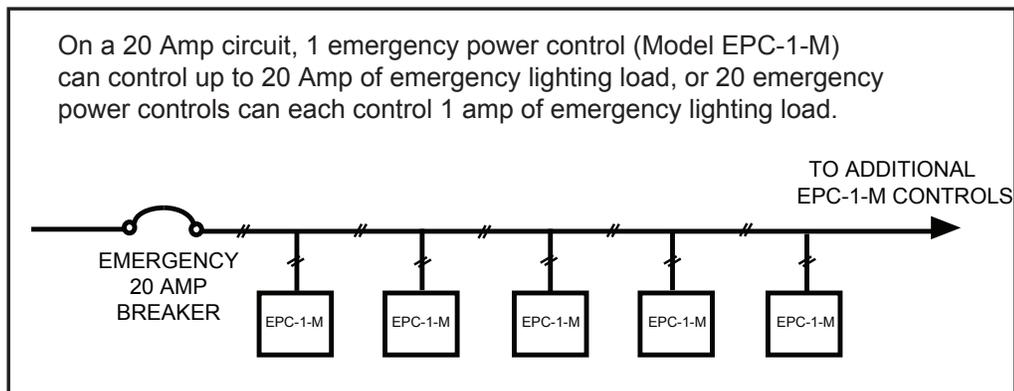
Troubleshooting & Maintenance of EPC-1-M

When the normal room or area switch is on, emergency load and regular load fixtures should all be illuminated. If EPC-1-M does not function properly on startup perform the following tests:

- 1) To test normal operation, ensure branch circuit breaker is connected and utility power is available. If green LED is not illuminated, confirm wiring connections and continuity to branch panels.
- 2) To test emergency operation, ensure emergency source is connected and red LED is illuminated. Turn room switch to "OFF" position, and ensure that emergency lights stay illuminated for at least 2.5 seconds. If emergency lights do not stay on for at least 2.5 seconds, confirm wiring connections and perform testing on emergency panel and emergency power source.

No maintenance is required to keep the EPC-1-M functional. However, regular testing should be performed when the lamps or ballasts have been replaced or when facility remodeling has taken place.

Single Line Drawings



Common Wiring Scenarios

