



MF40-PLQ



FLUORESCENT EMERGENCY BALLAST
Time delay enhancement to overcome end-of-life circuit protection.

PROJECT:
FIXTURE TYPE:
LOCATION:
CONTACT/PHONE:



PRODUCT SPECIFICATIONS

APPLICATION

The MF40-PLQ fluorescent emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact white case. The MF40-PLQ Operates one 25W-40W T8 through T12, one 13W-42W 4-pin compact or one 18W-40W 4-pin long compact fluo-res-cent lamps. Refer to lamp compatibility chart for a complete list of lamps. It is also compatible with most one-, two-, three-, and four-lamp electronic, standard, energy-saving and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The MF40-PLQ is suitable for indoor locations and is not suitable for air handling heated air outlets or for wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory.

OPERATION

When AC power fails, the MF40-PLQ immediately switches to the emergency mode, keeping either one or two lamps illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the MF40-PLQ automatically returns to the charging mode.

INSTALLATION

The MF40-PLQ does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The MF40-PLQ may be installed on top of or remote from the fixture. The emergency ballast may be remotely installed up to half the distance the AC ballast manufacturer recommends removing the AC ballast from the lamp or up to 50 feet, whichever is less. For simple visual inspection of the charging indicator light and easy operational testing, the test/monitor plate can be installed near the fixture wall switch. Or, it can be installed in the ceiling near the fixture to ensure an unobtrusive installation. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

UL AND CODE COMPLIANCE

The MF40-PLQ has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90-minute requirements.

BATTERY

Because high temperatures exist in fluorescent fixtures, the MF40-PLQ uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance and has a life expectancy of 7- 10 years.

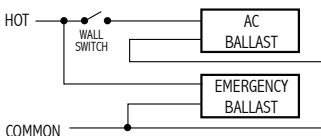
EMERGENCY ILLUMINATION

Depending on the number (one or two), wattage and type of lamps selected, the MF40-PLQ produces 300 to 750 lumens initial emergency light output (contact factory for specific information on the lumen output for different lamps). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination. Emergency lumen output will be less with one-lamp operation.

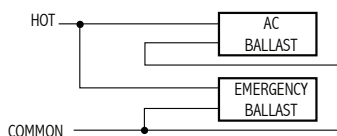
SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a MF40-PLQ emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel cadmium battery, charger and electronic circuitry contained in one 9 3/8" x 2 3/8" x 1 1/2" white metal case with 2' lengths of flexible conduit at each end. A test/monitor plate with a solid-state charging indicator light to monitor the charger and battery, a single-pole test switch and installation hardware shall be provided. The emergency ballast shall be capable of operating one 25W-40W T8 through T12, one 13W-42W 4-pin compact or one 18W-40W 4-pin long compact fluorescent lamps (with no integral starters) in the emergency mode for a minimum of 90 minutes. The MF40-PLQ shall produce 300 to 750 lumens initial emergency light output, have 3.5 Watts of input power, have a 14.4 Watt-hour battery capacity and comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL listed for installation on top of or remote from the fixture and shall be warranted for a full two years from date of purchase.

SWITCHED



UNSWITCHED



Primary circuit only. Lamp leads not shown.



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WARRANTY

Model MF40-PLQ is warranted for two (2) full years from date of purchase. This warranty covers only properly installed Mule emergency ballasts used under normal conditions. For the warranty period Mule will, at its option, repair or replace without charge, a defective emergency ballast provided it is returned to the factory transportation prepaid and our inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballast.

PRODUCT SUMMARY

UL LISTED

Factory or Field Installation

ILLUMINATION

90 Minutes

INITIAL LIGHT OUTPUT

300-750 Lumens

FULL WARRANTY

2 Years

DUAL VOLTAGE INPUT

120/277 VAC

60 Hz

AC INPUT CURRENT

280mA

AC INPUT POWER RATING

3.5 Watts

TEST SWITCH

Single pole

BATTERY

High-Temperature

Maintenance-Free

Nickel-Cadium Battery

7-10 Year Life Expectancy

BATTERY CHARGING CURRENT

280mA

RECHARGE TIME

24 Hours

CHARGING INDICATOR LIGHT

LED

TEMPERATURE RATING (AMBIENT)

0°C TO + 55°C

(32°F TO 131°F)

DIMENSIONS

9.4" x 2.4" x 1.5"

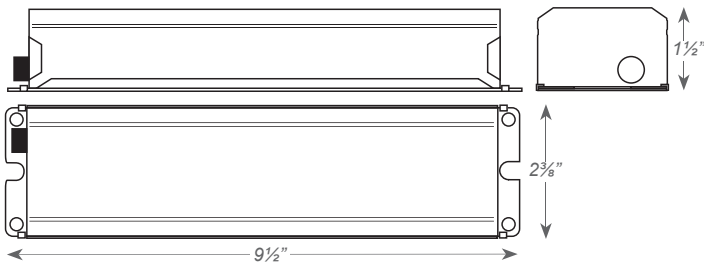
(238mm x 60mm x 38mm)

2' (610mm) Flexible conduit

Mounting center 8.9" (226mm)

WEIGHT

2.1 lbs (1 kg)



LAMP	INITIAL LUMENS	LAMP	INITIAL LUMENS	LAMP	INITIAL LUMENS
	1-LAMP		1-LAMP		1-LAMP
T8 32W	675	4-Pin PL CF 26W	575	4-Pin Long CF 18W	525
T12 40W	650	4-Pin PL CF 32W	675	4-Pin Long CF 24W	575
4-Pin PL CF 13W	450	4-Pin PL CF 42W	750	4-Pin Long CF 36W	600
4-Pin PL CF 18W	500			4-Pin Long CF 40W	650