



# MF40-PL



FLUORESCENT EMERGENCY BALLAST



PROJECT:
FIXTURE TYPE:
LOCATION:
CONTACT/PHONE:

## PRODUCT SPECIFICATIONS

### APPLICATION

The MF40-PL fluorescent emergency ballast works in conjunction with the AC ballast to convert new or existing compact fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact red case. This ballast can be used with most 10W through 26W compact fluorescent lamps with integral starters, including (2-pin) quad or triple twin-tube compacts. It is also compatible with most electronic, standard, and energy-saving AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The MF40-PL is not suitable for use in air handling heated air outlet fixtures, and wet or hazardous location fixtures. For information about specific lamps and ballast compatibility, please call the factory.

### OPERATION

When AC power fails, the MF40-PL immediately switches to the emergency mode operating one lamp at full light output for the first few seconds to start the lamp, then at reduced lumen output for a minimum of 90 minutes. When AC power is restored, the MF40-PL automatically returns to the charging mode.

### INSTALLATION

The MF40-PL does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If an 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-PL may be easily installed with a variety of compact fluorescent fixtures; however, some fixtures may not accommodate emergency equipment. In these situations, the MF40-PL may be remote-installed up to half the distance the AC ballast manufacturer recommends re-moting the AC ballast from the lamp, or up to 50 feet, whichever is less. For installation on top of the fixture, model MF40-PL provides two feet of flexible conduit at each end of the ballast. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C for extended periods. For simple visual inspection of the charging indicator light and operational testing, the test switch/monitor plate may be installed in the ceiling near the fixture or remote-installed by the fixture's wall switch.

### UL AND CODE COMPLIANCE

The MF40-PL 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

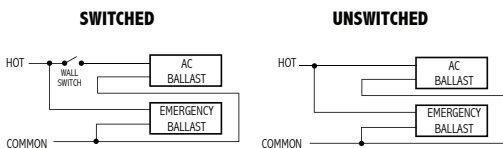
Since high temperatures exist in fluorescent fixtures, the MF40-PL uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance, and has a life expectancy of 7 to 10 years.

### EMERGENCY ILLUMINATION

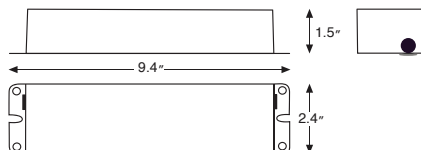
Depending on the wattage and type of lamps selected, the MF40-PL produces 300 to 650 lumens of emergency initial light output. During emergency illumination, one lamp is illuminated, even if installed with a multilamp AC ballast.

### SPECIFICATION

Emergency lighting shall be provided by using a quad or triple twin-tube compact fluorescent fixture equipped with a MF40-PL 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 two feet of flexible conduit at each end of the ballast. A test switch/monitor plate with test switch and charging indicator light shall be provided to monitor the charger and battery. The emergency ballast shall be capable of operating one 10W – 26W Quad or Triple tube 2-pin compact fluorescent lamp (with no Integral starter) in the emergency mode for a minimum of 90 minutes. The MF40-PL shall have 3.5 Watts of input power, 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 inside, on top of, or remote from the fixture, warranted for a full two years from date of purchase.



Primary circuit only. Lamp leads not shown.





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### WARRANTY

Model MF40-PL is warranted for two (2) full years from date of purchase. This warranty covers only properly installed 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

300-650 Lumens

#### FULL WARRANTY

2 Years (NOT pro-rata)

#### 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-Cadmium Battery  
7-10 Year Life Expectancy

#### BATTERY CHARGING CURRENT

270mA

#### 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 (1.1 kg)

LAMP	INITIAL LUMENS
	1-LAMP
2-Pin PL CF 13W	380
2-Pin PL CF 18W	550
2-Pin PL CF 26W	650