



MF40-70



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



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|----------------|
| PROJECT: |
| FIXTURE TYPE: |
| LOCATION: |
| CONTACT/PHONE: |

PRODUCT SPECIFICATIONS

APPLICATION

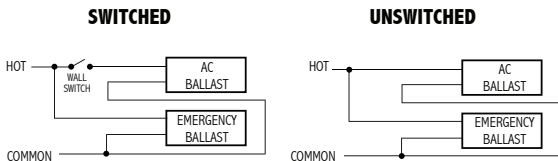
The MF40-70 fluorescent emergency ballast works in conjunction with the AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact red case. This ballast Operates one 8W-14W T5, one 17W-40W T8 through T12, one 13W-26W 4-pin compact or one 18W-36W 4-pin long compact fluorescent lamps. Refer to lamp compatibility chart for a complete list of lamps.. It is also compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving, and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The MF40-70 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

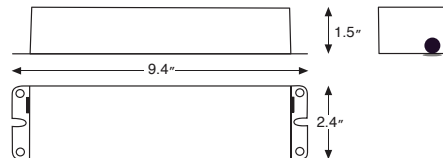
When AC power fails, the MF40-70 immediately switches to the emergency mode, keeping one lamp illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the ballast automatically returns to the charging mode.

INSTALLATION

The MF40-70 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 MF40-70 may be installed inside, on top of, or remote from the fixture. The emergency ballast may be remote-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. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C for extended periods.



Primary circuit only. Lamp leads not shown.



UL AND CODE COMPLIANCE

The MF40-70 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 MF40-70 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

The MF40-70 produces 600 to 700 lumens initial emergency light output with two (2'-4') T8, T10, or T12 lamps. If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination. Lumen output will be less with one-lamp operation or with a compact fluorescent lamp.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a MF40-70 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. 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 8W-14W T5, one 17W-40W T8 through T12, one 13W-26W 4-pin compact or one 18W-36W 4-pin long compact fluorescent lamps. Refer to lamp compatibility chart for a complete list of lamps. at reduced illumination in the emergency mode for a minimum of 90 minutes. The MF40-70 shall produce 600 to 700 lumens initial emergency light output, 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 three years from date of purchase.



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WARRANTY

Model MF40-70 is warranted for three (3) 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

600-700 Lumens

FULL WARRANTY

3 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

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)
Mounting center 8.9" (226mm)

WEIGHT

2.5 lbs (1.1 kg)

| LAMP | INITIAL LUMENS | LAMP | INITIAL LUMENS | LAMP | INITIAL LUMENS |
|---------|----------------|-----------------|----------------|-------------------|----------------|
| | 1-LAMP | | 1-LAMP | | 1-LAMP |
| T5 14W | 650 | T12 40W | 650 | 4-Pin PL CF 32W | 650 |
| T8 17W | 500 | 4-Pin PL CF 13W | 450 | 4-Pin Long CF 18W | 525 |
| T8 32W | 700 | 4-Pin PL CF 18W | 475 | 4-Pin Long CF 24W | 600 |
| T12 20W | 525 | 4-Pin PL CF 26W | 575 | 4-Pin Long CF 36W | 650 |