

# mcPhilben®

emergency lighting

Job Name: \_\_\_\_\_

Type: \_\_\_\_\_

Voltage: \_\_\_\_\_

- Damp location listed.
- End-of-lamp-life compatible.
- Suitable for Low Mercury Lamps.
- One lamp operation.



## CODES AND STANDARDS

UL Listed in accordance with the standards set forth in UL924, "Emergency Lighting and Power Equipment," and is UL Listed for factory installation or field retrofit. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-101) and UL924 90-minute requirements. UL Listed for damp locations.

## APPLICATION

The DEB-9W 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 black case. The DEB-9W can be used with one 13-42W (4-pin) twin, quad or triple twin-tube compact. 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.

## OPERATION

When AC power fails, the DEB-9W immediately switches to the emergency mode, keeping either one lamp illuminated at a reduced lumen output for a minimum of 90 minutes. The DEB-9W can be used with one 13-42W (4-Pin) twin, quad or triple twin tube CFL including low mercury lamps. When AC power is restored, the DEB-9W automatically returns to the charging mode. The DEB-9W circuitry delays AC ballast operation for approximately 3 seconds to prevent false tripping of the AC ballast end-of-lamp life shut down circuits.

## BATTERY

Since high temperature exist in fluorescent luminaires, the DEB-9W uses a specially constructed, high temperature nickel-cadmium battery. This battery requires no maintenance, and has a life expectancy of 7 to 10 years. The suggested operating temperature range is 32°F (0°C) to 122°F (50°C).

## RESTRICTIONS

Suitable for indoor and damp locations and for sealed and gasketed fixtures including installation inside of fixtures rated for wet locations. It is not suitable for installation in wet locations, hazardous locations or for air handling air outlet applications.

## EMERGENCY ILLUMINATION

Depending on the wattage and type of lamps selected, the DEB-9W produces 300 to 750 lumens initial emergency light output.

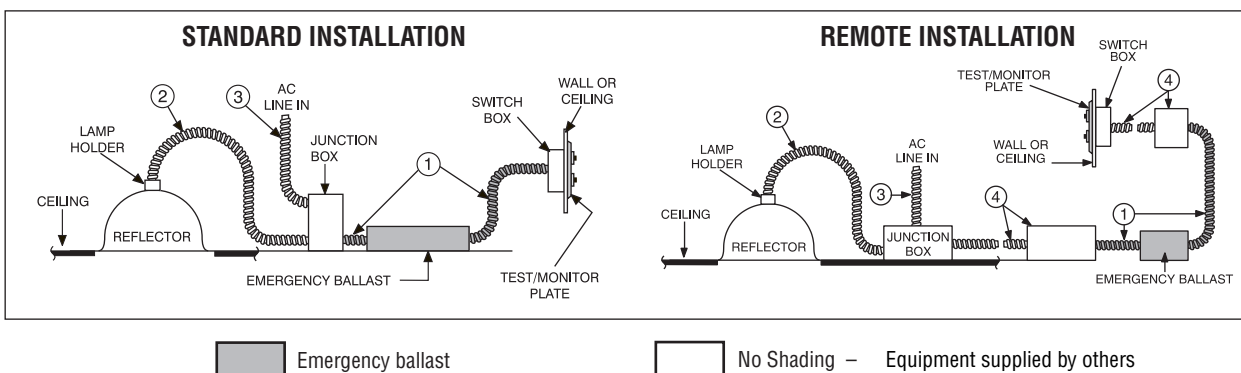
## INSTALLATION

This emergency ballast does not affect normal luminaire operation and may be used with either a switched or unswitched luminaire. If a switched luminaire 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 ballast may be installed on top of or remote from the luminaire and also 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 luminaire wall switch. It can also be installed in the ceiling near the luminaire to ensure an unobtrusive installation. Installation is not recommended with luminaires where the ambient temperature may fall below 0°C.

## Accessories:

**MCCAPS** - Wire Bundle Kit for External Mounting

**PL-SP** - Single Pole Remote Test Switch



## DEB-9W 4-Pin CFL Emergency Ballast 300 - 750 Lumens

### SPECIFICATIONS

#### SUGGESTED SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent luminaire equipped with a DEB-9W 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"x2-3/8"x1-1/2" metal case with a 2' length 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) \_\_\_\_\_ fluorescent lamp at \_\_\_\_\_ lumens initial light output in the emergency mode for a minimum of 90 minutes. This emergency ballast shall produce 300 to 750 lumens initial emergency light output, have 3.5 watts 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 on top of, or remote from the luminaire, warranted for a full two years from date of purchase, and is made in the U.S.A.

#### ELECTRICAL & MECHANICAL

- Dual input voltage 120/277
- Electrical rating—4.0 watts
- AC input current—300 mA
- Recharge time—24 hours
- Test switch provided
- Charging indicator light provided—LED
- Ballast case dimensions—9-3/8"x2-3/8"x1-1/2"
- Battery is a high temperature nickel cadmium type requiring no maintenance and life expectancy of 7 to 10 years.
- Housing is constructed of 20 gauge steel with a high temperature powder coat paint finish.
- Battery charging current - 300mA
- Weight—3 lbs

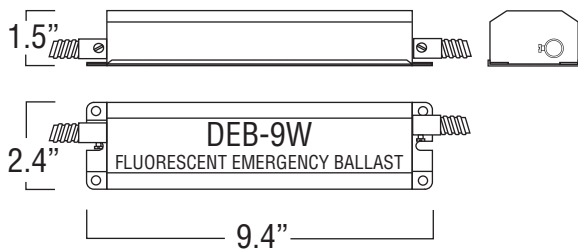
#### WARRANTY

Two year warranty on unit from date of purchase.

### LAMP COMPATIBILITY

TABLE 1	
LAMP	LUMENS 1-LAMP
PL-T 42 W/4P, Dulux T/E 42W	750
PL-T 32 W/4P, Dulux T/E 32 W	575
PL-T 26 W/4P, Dulux T/E 26 W, F26TBX/4P	450
PL-T 18 W/4P, Dulux T/E 18 W, F18TBX/4P	300
PL-C 26 W/4P, Dulux D/E 26 W, F26DBX/4P	600
PL-C 18 W/4P, Dulux D/E 18 W, F18DBX/4P	475
PL-C 13 W/4P, Dulux D/E 13 W, F13DBX/4P	350
PL-L 40 W, DULUX L 40 W, F40/30BX/4P	650
PL-L 36 W, DULUX L 39 W, F39/36BX/4P	575
PL-L 24 W, DULUX L 27 W, F27/24BX/4P	475
PL-L 18 W, DULUX L 18 W, F18 BX	300
F382D/4P	525

### DIMENSIONS



### WIRING DIAGRAM

