

# CHLORIDE

by  Signify

## Exit/Emergency

DEB-8W

Emergency ballast



Project:	
Location:	
Cat.No:	
Type:	
Lamps:	Qty:
Notes:	

## Ordering Information

**DEB-8W** - 1250 lumen max output emergency ballast.

For field installation. Order catalog number **DEB-8W**.

For factory installed **DEB-8W** use a suffix number **-E8** with luminaire catalog number.

### codes and standards

- UL Listed in accordance with the standards set forth in UL924
- UL Listed for factory installation or field retrofit.
- NFPA 70 (National Electric Code)
- NFPA101 (Life Safety Code)
- UL listed for damp locations

### application

- The DEB-8W Series fluorescent emergency ballast works in conjunction with the AC ballast to convert new or existing fluorescent luminaires into unobtrusive emergency lighting. The emergency ballast consists of nickel cadmium battery, charger and electronic circuitry in one compact black case. This emergency ballast can be used in applications requiring flexible conduit for remote emergency ballast installation. One lamp operation may be selected see table on next page. 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 luminaire, no AC ballast is necessary. 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. For information about specific lamp and ballast compatibility, please call the factory.

### operation

- When AC power fails, the DEB-8W Series immediately switches to the emergency mode, keeping one lamp illuminated at a reduced lumen output for a minimum of 90 minutes. The DEB-8W Series operates one 13-42W twin, quad or triple tube lamp, one 22-40W T5 circline or one 18-39W long compact fluorescent lamp, including low mercury and amalgam lamps. When AC power is restored, the DEB-8W Series automatically returns to the charging mode.

### battery

- DEB-8W Series 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 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 lamp selected, the DEB-8W Series produces 325 to 1000 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 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 32°F (0°C).

### suggested specifications

- Emergency lighting shall be provided by using a standard fluorescent luminaire equipped with a DEB-8W Series emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel cadmium battery, charger and electronic circuitry contained in one 12" x 2.4" x 1.5" black metal case with 2' of flexible conduit at each end. A test/monitor plate with and insallation hardware shall be provided. The emergency ballast, using a patented circuit, shall delay AC ballast operation for approximately 3 seconds to prevent false tripping of AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating one \_\_\_\_\_ standard or low mercury fluourescent lamp at \_\_\_\_\_ lumens (see Table 1) initial light output in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations. The DEB-8W shall have 3.5 Watts of input power and a 19.2 Watt hour battery capacity and shall 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.

### electrical

- Dual input voltage 120/277VAC
- Electrical rating - 3.5 Watts
- AC input current - 300 mA
- Recharge time - 24 hours
- Test switch provided - LED
- Charging indicator light provided - LED
- Ballast case dimensions - 12"x2.4"x1.5"
- Battery charging current - 280mA
- Weight - 4.3 lbs.

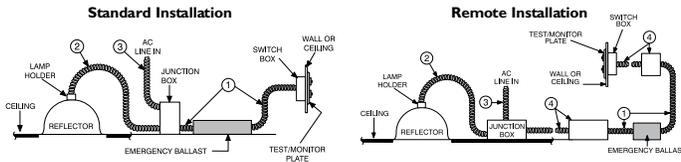
### warranty

- Two year warranty on unit from date of purchase.



# DEB-8W Emergency ballast

700-1250 lumens, 4-pin CFL, 1 lamp, damp location, low mercury lamps

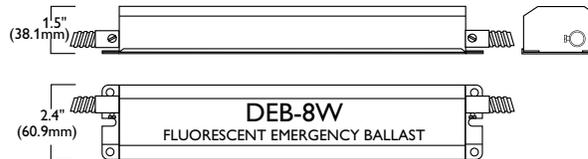


- ① - Flexible conduit (supplied) to connect ballast wires.
  - ② - Existing conduit to run existing wires to lamp holder (AC ballast on junction box). If AC ballast is on reflector, run yellow, yellow/black, blue/white, blue and red wires from emergency ballast through this conduit.
  - ③ - AC line in.
  - ④ - Conduit and junction box (not supplied), necessary for remote installation.
- Emergency ballast
  No Shading - Equipment supplied by others

Table 1 - Initial Lumen Output

Lamp	Lumens
	1 Lamp
PL-T 42W/4P, F42QBX, Dulux T/E 42W	1250
REDUCED MERCURY 42W/4p	850
32W/4P, F32TBX, Dulux T/E 32W	1250
REDUCED MERCURY 32W/4P	1100
PL-T 26 W/4P, F26DBX, Dulux T/E 26W	700
PL-T 18 W/4P, F18DBX, Dulux T/E 18W	900
PL-T 13 W/4P, F13DBX, Dulux T/E 13W	700
PL-L 36W, Philips	1100
F39/38X, Dulux L 36W	1250
PL-L 24W, F27/248X, Dulux L 27W	800
PL-L 18W, F188X Dulux L 18W	775
FC9T5, FPC22	700
FC12T5, FC12T5/HO, FPC40	1000
PL-L 36W, F39/36BX, FT36DL	900

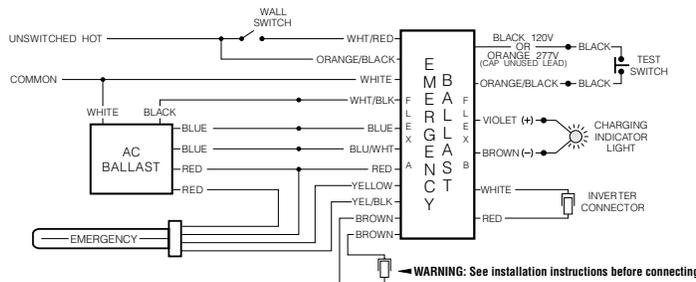
## dimensions



\* Initial lumen output measured at 25°C ambient temperature.

## wiring diagrams

### Switched Luminaire (Rapid Start)



### Wiring Diagrams For Emergency-Only Luminaires

