

Type No. \_\_\_\_\_  
 Job Name \_\_\_\_\_  
 Catalog No. \_\_\_\_\_



**Shown: L3400-3**



# L3400-3

## Fluorescent Emergency Ballast

### For Three Lamp Operation

### 3400 Lumen Maximum Output

The L3400-3 Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The L3400-3 may be installed in or near the fixture to provide unobtrusive life safety protection.

### Housing

- Constructed of 20 gauge steel with a high temperature powder coat finish
- Slim housing allows for housing frame mounting on most recessed luminaires

### Electronics

- 120/277 VAC dual voltage input with surge protected, solid state charging circuitry provides for a reliable charging system
- Charging system complete with AC indicator lamp and test switch
- Parallel lamp output for reliable multiple lamp emergency operation

### Electrical Specifications

Input power requirements: 8 watts max

### Lamp Operation<sup>1</sup>

Operates the following lamp types:<sup>2</sup>  
 T8 Linear Fluorescent  
 T5 Long Compact Fluorescent

#### NOTES:

- 1) Consult factory for compatibility, operation and performance of product with lamp types not listed.
- 2) See Table 1 for specific lamp performance and operation

### Battery

- Maintenance free, sealed nickel cadmium battery
- Supplies 90 minutes of emergency power
- Battery has an estimated service life of 10 years, with an operating temperature range of 32°F (0 °C) to 131°F (55 °C)

### Application

- Commercial locations where emergency lighting protection is required using existing fluorescent lighting

### Code Compliance

- UL 924 listed
- NFPA70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards

### Warranty

Electronics : 5 years  
 Battery: 5 years

### Lamp Operation and Performance Table 1

\*\*Compatible only with instant start, parallel output 2, 3, and 4-lamp electronic, standard, energy saving, and dimming AC ballast

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMENS 3 PARALLEL LAMPS	EMERGENCY OP. MAX. LUMENS 2 PARALLEL LAMPS
F32T8	32	G13/Med Bi-Pin	2850	3400	3000
F39/36BX	39	2G11/4-Pin	2850	3200	2700
F40/30BX	40	2G11/4-Pin	3150	N/A	3200
F50BX	50	G24Q-3/4-Pin	4000	N/A	3200

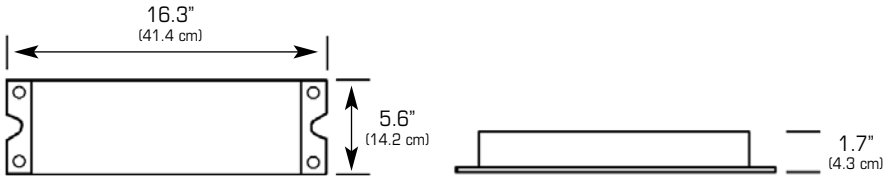
#### NOTES:

- 1) Maximum non-emergency lumen output can vary based on lamp manufacturer, ambient operating temperature, and ballast manufacturer.
- 2) Maximum emergency lumen output is based on total output of one or two lamps, and can vary based on lamp manufacturer and ambient operating temperature.
- 3) Maximum emergency lumen output is supported for a full 90 minutes of operation.
- 4) Consult factory for compatibility, operation and performance of lamp types not listed.

## Ordering Information

L3400-3		
MODEL	OPTIONS	ACCESSORIES (Ordered Separately)
<b>L3400-3</b> = 3400 Max. Lumen Output Fluorescent Emergency Ballast for One or Two Lamp Operation	<b>EX</b> = Special Input Transformer (Specify voltage & frequency) <b>QC</b> = Quick Connect	<b>RTS</b> = Remote Test Plate <b>RTS2</b> = Remote Test Switch & Pilot Light Kit (includes plate)

## Dimensions



Dimensions are approximate and subject to change.

## Illumination

The L3400-3 provides 90 minutes of emergency illumination, and produces a maximum of 3400 initial lamp lumens when used to power two or three 32W (4') T8 fluorescent lamps, two or three 39W T4, or two 40 - 55W t4-4 pin long compact fluorescent lamps. Any non-emergency AC ballast used in conjunction with the L3400-3 MUST be an instant start, parallel output 2, 3, or 4 lamp regular or dimming type ballast.

## Electronics

Dual voltage 120/277 VAC input is standard.

An indicator light and test switch are available to signify that AC utility is present, and periodically transfer to emergency operation.

Battery charging circuitry is entirely solid-state, and of a constant current design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch installed on the luminaire, or in a remote location.

## Suggested Specification

Furnish and install LightGuard's fluorescent emergency ballast model L3400-3. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC), and be approved for installation inside, on top of, or remote from the chosen luminaire.

**INSTALLATION AND OPERATION** - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

**CHARGER** - Unit shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization.

**BATTERY** - The battery shall be a maintenance free, nickel cadmium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 131°F (55°C). Nickel cadmium batteries shall be supplied with a five year full warranty.

**ENCLOSURE** - The housing shall be constructed of 20 gauge steel with a high temperature powder coat finish. The slim housing shall allow for housing frame mounting on most recessed luminaires.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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