



Type No. _____

Job Name _____

Catalog No. _____



Shown: LF1400-4PT



LF1400-4PT

Fluorescent Emergency Ballast For One or Two Lamp Emergency Operation 1400 Lumen Maximum Output

The LF1400-4PT converts switched/unswitched fluorescent lighting into code required emergency lighting. The LF1400-4PT may be installed in or near the fixture to provide unobtrusive life safety protection and is fully compatible with AC ballast equipped with end of lamp life circuitry.

Housing

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

Electronics

- 120/277 VAC dual voltage input capability
- Charging system complete with AC indicator lamp and test switch
- Fully compatible with AC ballast equipped with end of lamp life circuitry
- An integral time delay circuit provides compatibility with AC ballasts capable of detecting end of lamp life. The time delay circuit causes a 3 to 5 second delay when switching back to AC operation preventing the AC ballast from shutting down under false conditions.

Warranty

- Electronics: 2 years
- Battery: 2 years

Lamp Operation¹

- Operates the following lamp types:²
Compact 4-pin fluorescent
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.

Lamp Operation and Performance - Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
Long Compact	18-39	2G11/4 Pin	1250-2850	950-1100	One or Two
Long Compact	40-55	2G11/4 Pin	3000-4000	1000-1100	One
Compact	13-32	G24Q/4 Pin	900-2400	500-900	One or Two
Compact	42, 57	GX24Q/4 Pin	2750, 3700	1100-1400	One

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.

Battery

- Maintenance free, sealed nickel cadmium battery
- Supplies 90 minutes of emergency power
- IEC 61951-1 Life Testing compliant

Code Compliance

- UL 924 listed
- NFPA70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- IEC 61951-1 Life Testing compliant
- Suitable for use in sealed and gasketed fixtures
- Optional cold and damp location

Electrical Specifications - Input power requirements

- 120 VAC, 60 Hz, 0.29 A
- 277 VAC, 60 Hz, 0.10 A

Operating Temperature Range

- Standard Models: 32°F (0°C) to 131°F (55°C)
- Cold Weather Option: 5°F (-15°C) to 131°F (55°C)

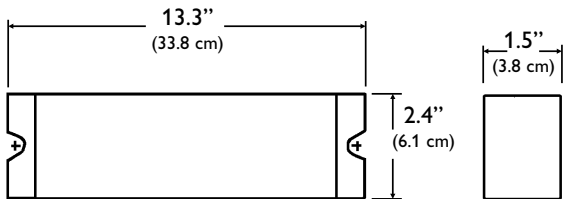
Application

- Commercial locations where emergency lighting protection is required using existing fluorescent lighting
- The LF1400-4PT meets the Buy American requirements

Ordering Information

L1400-4PT	
MODEL	OPTIONS
L1400-4PT = 1400 Max. Lumen Output Fluorescent Emergency Ballast for One or Two Lamp Operation	DL = Damp Location Listing CW = Cold Weather Rating 5°F (-15°C) to 131°F (55°C) including Damp Location Listing

Dimensions



Dimensions are approximate and subject to change.

Illumination

- The LF1400-4PT provides 90 minutes of emergency illumination by utilizing existing fluorescent lighting and provides a 1400 lumen maximum output. The LF1400-4PT can be used with most 18-57 W 4-pin twin, quad, and triple tube compacts and 18-55 W long compact fluorescent lamps. The LF1400-4PT is compatible with standard energy-saving or electronic ballasts. See lamp operation for specific lamp types.

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.
- An integral time delay circuit provides compatibility with AC ballasts capable of detecting end of lamp life. The time delay circuit causes a 3 to 5 second delay when switching back to AC operation preventing the AC ballast from shutting down under false conditions.

Suggested Specification

Furnish and install LightGuard's fluorescent power pack model _____. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, 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 two year full warranty. The batteries shall be tested and compliant with IEC 61951-1 Life Testing. A cold weather option is available and is tested for conditions ranging from 5°F (-15°C) to 131°F (55°C).

ENCLOSURE - The housing shall be constructed of 20 gauge steel. The slim housing shall allow for housing frame mounting on most recessed luminaires.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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