

GENERAL DESCRIPTION

The CF1000-4P converts switched and unswitched fluorescent lighting into code required emergency lighting. The CF1000-4P may be installed in or near the fixture to provide unobtrusive life safety protection.

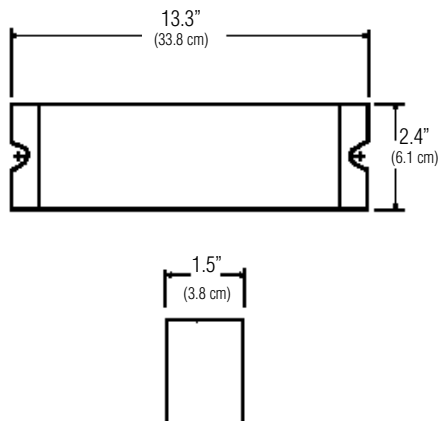
ILLUMINATION

The CF1000-4P provides 90 minutes of emergency illumination by utilizing existing fluorescent lighting. The CF1000-4P is compatible with standard energy-saving or electronic ballasts, and provides a 1000 lumen maximum output. See lamp operation for specific lamp types.

APPLICATION

The CF1000-4P is suitable for commercial locations where emergency lighting protection is required using existing fluorescent lighting.

DIMENSIONS



Dimensions are approximate and subject to change.

CF1000-4P

Fluorescent Emergency Ballast 1000 Lumen Maximum Output for 4-Pin Fluorescent Lamps (without integral starter)



HOUSING

Housing constructed of 20 gauge steel with a high temperature powder coat paint finish.

Housing allows for housing frame mounting on most recessed luminaires.



SHOWN: CF1000-4P

ELECTRONICS

120/277 VAC dual voltage input with surge protected, solid-state charging circuitry provides for a reliable charging system.

Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

BATTERY

Maintenance free, sealed nickel cadmium battery

Supplies 90 minutes of emergency power

Estimated service life of 10 years

Operating temperature range of 32°F (0°C) to 131°F (55°C)

LAMP OPERATION ¹

Operates the following lamp types: ²

T4 Compact Fluorescent (One or Two Lamp Operation)
13W - 50W twin, quad, and triple twin

NOTES:

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

CODE COMPLIANCE

UL 924 listed

NFPA 70 and NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

ELECTRICAL SPECIFICATIONS

Input power requirements

3.5 watts max.

WARRANTY

Two year full electronics warranty

Two year full battery warranty

ORDERING INFORMATION (EXAMPLE: CF1000-4P)

CF1000-4P

FLUORESCENT EMERGENCY BALLAST

CF1000-4P = 1000 Lumen Max. Output
Fluorescent Emergency Ballast
for One Lamp Operation

OPTIONS

EX = Special Input Transformer
(Specify voltage and frequency)

ACCESSORIES (order as a separate line item)

CCAPS = Wire Cover Kit for External Mounting
RTS = Remote Test Switch

Specification Data for CF1000-4P Fluorescent Emergency Ballast

HOUSING

Housing constructed of 20 gauge steel with a high temperature powder coat paint finish.

Housing is very compact, thus allowing for housing frame mounting on most recessed luminaires.

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.

AC lockout prevents battery drain prior to the initial energizing of utility power.

The low voltage disconnect (LVD) feature will disconnect the battery prior to an unacceptable deep discharge, but not before the required 90 minute emergency operation.

The brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage sags below 30% of nominal.

Battery charging circuitry is entirely solid-state, and of a constant voltage 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.

BATTERY

Sealed, maintenance free nickel cadmium battery is equipped with a quick connect plug assembly for easy installation.

Standard sustained emergency operation is for 90 minutes with the illumination source providing full light output.

The suggested operating temperature range for nickel cadmium batteries is of 32°F (0°C) to 131°F (55°C) and should provide a service life of 10 years.

ELECTRICAL SPECIFICATIONS

Input power requirements

3.5 watts max.

CODE COMPLIANCE

The CF1000-4P meets or exceeds all performance standards as required by UL 924, NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC.

LAMP OPERATION AND PERFORMANCE

Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
F13DBX/4P	13	G24Q-1	900	400	One
F18DBX/4P	18	G24Q-2	1150	500	One
F26DBX/4P	26	G24Q-3	1710	675	One
F13TBX/4P	13	GX24Q-1	900	375	One
F18TBX/4P	18	GX24Q-2	1200	400	One
F26TBX/4P	26	GX24Q-3	1800	600	One
F32TBX/4P	32	GX24Q-3	2200	750	One
F18BX	18	2G11	1250	325	One
F27/24BX/RS	27	2G11	1800	525	One
F39/36BX/RS	39	2G11	2850	725	One
F40/30BX/RS	40	2G11	3150	600	One
F50BX/RS	50	2G11	4000	825	One
F162D/4P	16	GR10Q-4	1050	550	One
F212D/4P	21	GR10Q-4	1350	550	One
F282D/4P	28	GR10Q-4	2050	550	One
F382D/4P	38	GR10Q-4	2850	675	One
PL-T 42W/4P	42	GX24Q-4	3200	1000	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.

SUGGESTED SPECIFICATION

Furnish and install Chloride's fluorescent emergency ballast model CF1000-4P. 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 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. The following features shall be standard: Low voltage disconnect (LVD), brownout protection and AC lockout.

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.

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



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SYSTEMS

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