PL6SC4

FLUORESCENT EMERGENCY BALLAST
One or two lamp emergency illumination
for 4-pin fluorescent lamps (without integral starter)

APPLICATION

The PL6SC4 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 white case. The PL6SC4 can be used with one 13 - 42 W or two 13 - 39 W (4-pin) twin, quad and triple twin-tube compacts. 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. The PL6SC4 is suitable for indoor locations and is not suitable for air handling heated air outlets or for wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory.

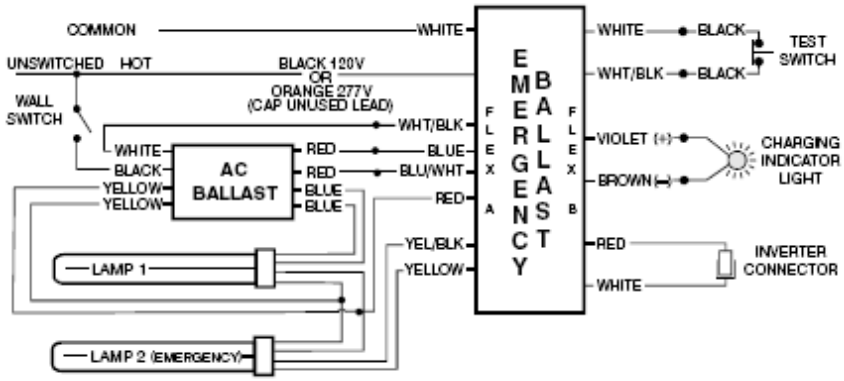
OPERATION

When AC power fails, the PL6SC4 immediately switches to the emergency mode, keeping either one or two lamps illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the PL6SC4 automatically returns to the charging mode.

INSTALLATION

The PL6SC4 does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture 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 PL6SC4 may be installed on top of or remote from the fixture. The emergency ballast may be remotely installed up to half the distance the AC ballast manufacturer recommends remoting 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 fixture wall switch. Or, it can be installed in the ceiling near the fixture to ensure an unobtrusive installation. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

Wiring Diagram Example



NATIONAL BATTERY
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UL and CODE COMPLIANCE

The PL6SC4 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA–LSC) and UL 90-minute requirements.

BATTERY

Since high temperatures exist in fluorescent fixtures, the PL6SC4 uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance and has a life expectancy of 7- 10 years.

EMERGENCY ILLUMINATION

Depending on the number (1 or 2), wattage and type of lamps selected, the PL6SC4 produces 300 to 750 lumens initial emergency light output (contact factory for specific information on the lumen output for different lamps). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination. Emergency lumen output will be less with one-lamp operation.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with National Battery PL6SC4 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" x 2 3/8" x 1 1/2" red metal case with two feet 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 or Two 6W -28W Tubular fluorescent lamps; One or Two 13W – 32W and One 40W – 42w 4-pin Compact fluorescent lamps (with no integral starters) in the emergency mode for a minimum of 90 minutes. The PL6SC4 shall produce 300 to 750 lumens initial emergency light output, have 3.5 Watts of input power, have 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 fixture and shall be warranted for a full year from date of purchase.

WARRANTY

Model PL6SC4 is warranted for three (3) full years from date of purchase. This warranty covers only properly installed National Battery emergency ballasts used under normal conditions. For the warranty period National Battery will, at its option, repair or replace without charge, a defective emergency ballast provided it is returned to the factory transportation prepaid and our inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballast.

PRODUCT SUMMARY

UL LISTED
Factory or Field Installation

Dual Input Voltage
120/277 VAC
60 Hz

Battery
High-Temperature Maintenance-Free Nickel-Cadmium Battery
7 to 10 Life Expectancy

Temperature Rating (Ambient)
0°C to +55°C
(32°F to 131°F)

Illumination Time
90 minutes

AC Input Current
280 mA

Initial Light Output
300 – 750 Lumens

AC Input Power Rating
3.5 Watts

Battery Charging Current
280 mA

Dimensions
9.4" x 2.4" x 1.5"
(238mm x 60mm x 38mm)
2' (610mm) Flexible conduit
Mounting center 8.9" (226mm)

Full Warranty
3 Years (NOT pro-rata)

Test Switch
Single Pole

Recharge Time
24 Hours

Charging Indicator Light
LED

Weight
3.0 lbs. (1.4 Kg)

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