



# PL30SC8

FLUORESCENT EMERGENCY BALLAST  
One or two lamp emergency illumination



## APPLICATION

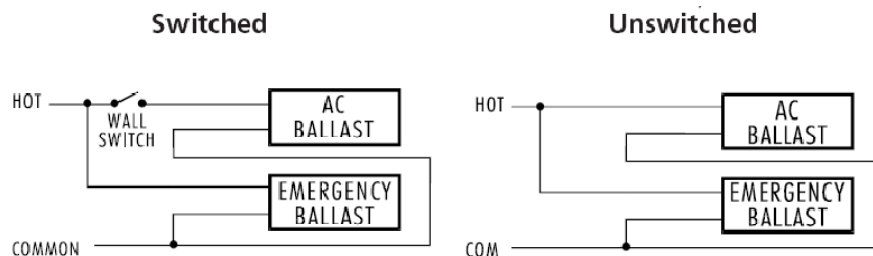
The PL30SC8 fluorescent emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a field-replaceable nickel-cadmium battery, charger and electronic circuitry in one red case. The PL30SC8 can be used with most 17 - 215 W (2'-8') T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline, energy-saving and (4-pin) twin, quad and triple twin-tube compacts. One- or two-lamp operation may be selected. 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 PL30SC8 is suitable only for indoor locations and not for wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory. Recommended applications include: hospital surgical suites and areas along the path of egress with high ceiling heights, as well as health care, educational and commercial facilities needing higher levels of emergency illumination.

## OPERATION

When AC power fails, the PL30SC8 immediately switches to the emergency mode, keeping one lamp illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the ballast automatically returns to the charging mode.

## INSTALLATION

The PL30SC8 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 PL30SC8 may be installed inside, on top of, or remote from the fixture. The emergency ballast may be remote-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. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C for extended periods.



*Primary circuit only. Lamp leads not shown.*

## UL and CODE COMPLIANCE

The PL30SC8 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.

**NATIONAL BATTERY**

18-32A 127th Street | College Point, NY 11356 T (718) 461-9797 F (718) 425-8994 E INFO@NATIONALBATTERY.COM

## BATTERY

Since high temperatures exist in fluorescent fixtures, the PL30SC8 uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance, and has a life expectancy of 7 to 10 years.

## EMERGENCY ILLUMINATION

Depending on the number (1 or 2), wattage and type of lamps selected, the PL30SC8 produces 1450 to 3000 lumens initial emergency light output. If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination.

## SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with National Battery PL30SC8 emergency ballast. The PL30SC8 shall consist of a field-replaceable, high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 16 5/16" x 5 7/16" x 1 3/4" red metal case with a 2' length of flexible conduit. A solid-state charging indicator light to monitor the charger and battery, double-pole test switch and installation hardware shall be provided. The emergency ballast shall be capable of operating One or Two 17 - 215 W (2'-8") T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, Circline, Energy-saving and (4-pin) twin, quad and triple twin-tube compacts in the emergency mode for a minimum of 90 minutes. The PL30SC8 shall have 8 Watts of input power and a 57.6 Watt-hour battery capacity and shall exceed 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, and made in the U.S.A.

## WARRANTY

Model PL30SC8 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

<b>UL LISTED</b> Factory or Field Installation	<b>Dual Input Voltage</b> 120/277 VAC 60 Hz	<b>Battery</b> Field-Replaceable High-Temperature Maintenance-Free Nickel-Cadmium Battery 7 to 10 Life Expectancy	<b>Temperature Rating (Ambient)</b> 0°C to +55°C (32°F to 131°F)
<b>Illumination Time</b> 90 minutes	<b>AC Input Current</b> 280 mA	<b>Battery Charging Current</b> 280 mA	<b>Dimensions</b> 16.3" x 5.5" x 1.7" (414mm x 138mm x 44mm) Mounting center 8.9" (226mm)
<b>Initial Light Output</b> 1450 – 3000 Lumens	<b>AC Input Power Rating</b> 2.5 Watts	<b>Recharge Time</b> 24 Hours	<b>Weight</b> 8.7 lbs. (4.0 Kg)
<b>Full Warranty</b> 3 Years (NOT pro-rata)	<b>Test Switch</b> Double Pole Single Pole (optional, used only with Test/Monitor plate)	<b>Charging Indicator Light</b> LED	

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