



# PL7SC8

FLUORESCENT EMERGENCY BALLAST  
One or two lamp emergency illumination

## APPLICATION

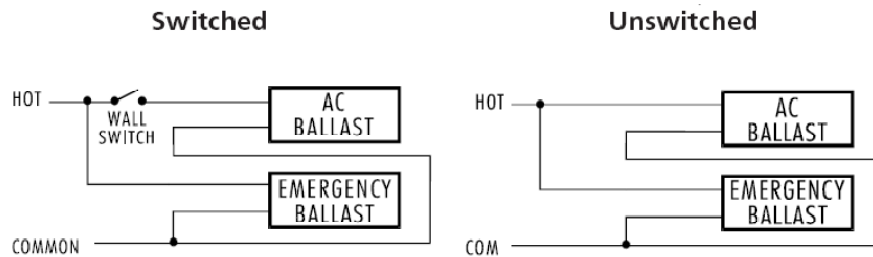
The BAL 1400 fluorescent emergency ballast works in conjunction with the AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact red case. This ballast can be used with most 17 W through 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) long compacts. One or two lamp operation may be selected. It is also compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving, and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The PL7SC8 is suitable for use in indoor fixtures EXCEPT air handling heated air outlets, and wet or hazardous location fixtures. For information about specific lamp and ballast compatibility, please call the factory.

## OPERATION

When AC power fails, the PL7SC8 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 PL7SC8 automatically returns to the charging mode.

## INSTALLATION

The PL7SC8 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 PL7SC8 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 reaming 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 PL7SC8 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**

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## BATTERY

Since high temperatures exist in fluorescent fixtures, the PL7SC8 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 PL7SC8 produces 1100 to 1400 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 PL7SC8 emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 13 3/ 8" x 2 3/8" x 1 1/2" red metal case. 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 17W – 110W Single Pin or Bi-Pin fluorescent lamps including Standard, Energy Saving, HO, VHO, Circline, U-Shaped and 4-pin rapid-start long compacts in the emergency mode for a minimum of 90 minutes. The PL7SC8 shall have 4.0 Watts of input power, a 24.0 Watt-hour battery capacity, and exceed emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation inside, on top of, or remote from the fixture, warranted for a full year from date of purchase.

## WARRANTY

Model PL7SC8 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> 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>Initial Light Output</b> 1100 – 1400 Lumens	<b>AC Input Power Rating</b> 3.5 Watts	<b>Battery Charging Current</b> 280 mA	<b>Dimensions</b> 9.4" x 2.4" x 1.5" (238mm x 60mm x 38mm)
<b>Full Warranty</b> 3 Years (NOT pro-rata)	<b>Test Switch</b> Single Pole	<b>Recharge Time</b> 24 Hours	2' (610mm) Flexible conduit Mounting center 8.9" (226mm)
		<b>Charging Indicator Light</b> LED	<b>Weight</b> 3.4 lbs. (1.5 Kg)

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