

PL5SC8 Ballast

FLUORESCENT EMERGENCY BALLAST
Two lamp emergency illumination



APPLICATION

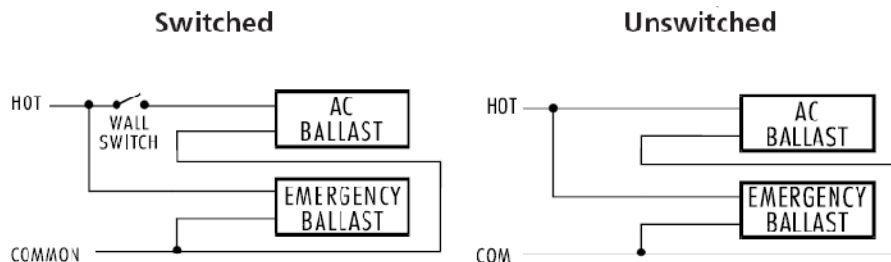
The PL5SC8 fluorescent emergency ballast works in conjunction with the AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact red case. This ballast can be used with most 17 W through 110 W (2' -8') T8, T10, or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline, energy saving, and (4-pin) long compacts. 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 PL5SC8 is not suitable for use in air handling heated air outlet fixtures, and wet or hazardous location fixtures. For information about specific lamps and ballast compatibility, please call the factory.

OPERATION

When AC power fails, the PL5SC8 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 PL5SC8 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 PL5SC8 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 remotng 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 PL5SC8 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 PL5SC8 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

The PL5SC8 produces 600 to 700 lumens initial emergency light output with two (2' - 4') T8, T10, or T12 lamps. If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination. Lumen output will be less with one-lamp operation or with a compact fluorescent lamp.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with National Battery PL5SC8 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" white 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 17 W - 40 W (2' - 4') T8, T10, or T12 fluorescent lamp or (4-pin) long compact fluorescent lamp at reduced illumination in the emergency mode for a minimum of 90 minutes. The PL5SC8 shall produce 600 to 700 lumens initial emergency light output, have 3.5 Watts of input power, 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 inside, on top of, or remote from the fixture, warranted for a full year from date of purchase, and made in the U.S.A.

WARRANTY

Model PL5SC8 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 600 – 700 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) 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 2.5 lbs. (1.1 Kg)