



Catalog Number 72901
UPC Number 60198672901
Description Emergency Lighting Ballast
650 Lumen
CFL Double) Triple Twin Tube



Features

For both normal and emergency Fluorescent lighting.
In the event of a Power Failure, the Ballast Switches to the Emergency Mode and operates one or two of the existing lamps for a minimum of 90 minutes.
Contains a Ni-Cad Battery, Charger, and Inverter Circuit in a single package.
Can be mounted in the wireway or on top of the fixture.
90 minute minimum emergency power, 24 hour recharge time
Temperature Range: 20°C to 50°C
120/277 Volt
60 Hz
UL listed for factory installation or retrofit applications
UL Listed Damp Location
Standard Ballasts
Standard Emergency ballasts are Rated for use with a variety of lamp types:
T8, T9, T10, T12, U-Shaped, HO, VHO, circline, energy saving & 4-Pin Compact lamps.
Compatible with most one, two, three & four lamp electronic,
standard energy saving & dimming AC ballasts

General

Housing: Galvanized Steel
Finish: Powder Coat
Lamp Type: 2 Pin CFL 2 Or 3 Twin Tube
Battery : Ni-Cad
Emergency Power: 90 minutes

Dimension Information

Length: 9.4"
Height: 1.5"
Depth: 2.4"

Specifications

Temperature Rating 0°C to 50°C
Voltage Rating 120/277 V
Frequency: 60 Hz
Flammability Rating N/A
Input Wattage: 3.5
Wattage Rating 10-26 Watt
Battery: Ni-Cad 3.6V, 14.4 Wh, 270 mA

Packaging

Box Qty 1

Certifications

UL UL 924
cUL Yes
RoHS Yes

INSTALLATION INSTRUCTIONS

650 Lumens 2pin

**When using this lighting device
the safety precautions should be followed at all time**

**PLEASE READ CAREFULLY AND FOLLOW ALL
INSTRUCTIONS FOR YOUR OWN SAFETY**

1. This device is designed for indoor use. Do not use outdoors.
2. Prior to installation, battery connector must be open to prevent high voltage from being present on out put leads (red & yellow).
3. This device is designed for use with One double twin-tube (quad) or one triple twin-tube compact fluorescent lamp shown in the Lamp Rating Chart as Follow.

Lamp Rating Chart (Operates 1 lamp)				
1	Wattage	10, 13, 18, 26	Base	G24d
2	Wattage	13, 18, 26	Base	GX24d

4. Please ensure the electricity connections conforms to the National Electrical Code and local regulations if applicable.
5. To avoid electric shock, please disconnect normal and emergency power supplies, and battery connector of the emergency ballast before servicing.
6. This device is designed for factory or field installation in either the ballast channel, or on top of the indoor fixture, except air handling heated air outlets, wet, or hazardous location fixtures. Do not install this device near gas or electric heaters.
7. AC power source of 120VAC or 277VAC is required.
8. The battery is sealed, non-maintenance, and is not replaceable in the field. Please contact manufacturer for information on service. Do not attempt to service the battery please.
9. Do not use accessory equipment that is not recommended by manufacturer. Failure to do so may cause unsafe conditions. Servicing should only be performed by qualified service personnel.
10. Do not use the product for other purpose that the product is NOT designed for.

PLEASE SAVE THESE INSTRUCTIONS

INSTALL INSTRUCTION

NOTE: All the branch circuit wiring has to be ready as well as an unswitched source of power before the fixture is installed. Confirmed the same branch circuit would the emergency ballast as AC ballast.

CAUTION: Inverter connector has to be opened for preventing high voltage on output leads (Red and Yellow). Wait until all the installation process is completed and AC is supplying power to the emergency ballast then join the inverter connector.

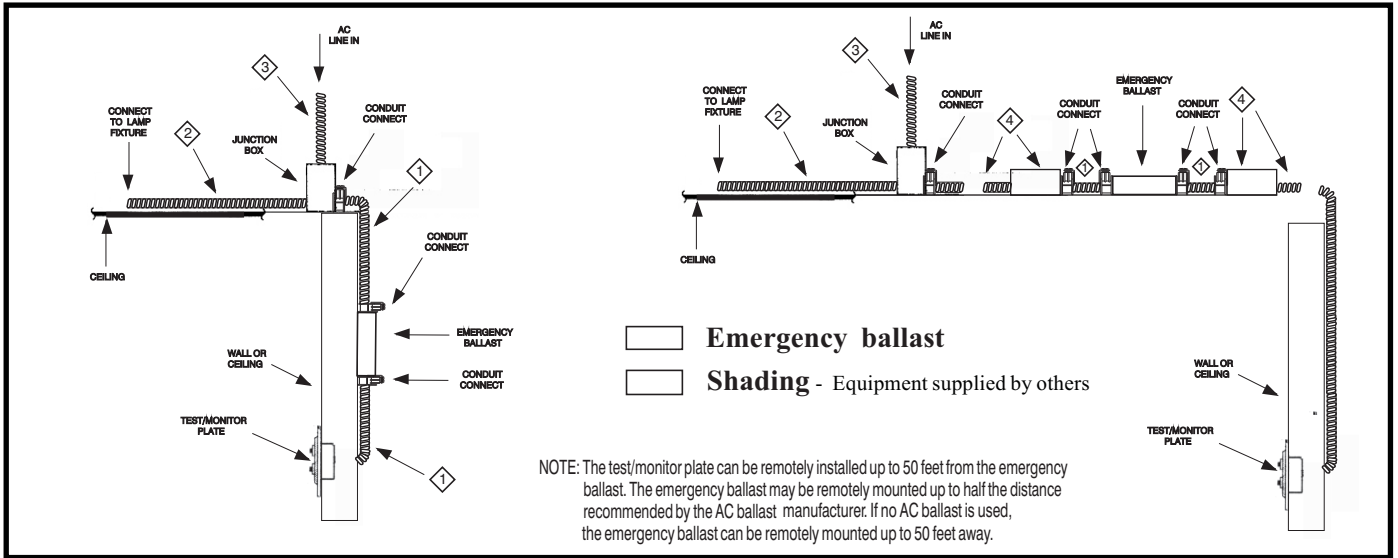
1. Disconnect AC power from the fixture.
2. Choose the right wiring diagram to connect the emergency ballast to AC ballast and lamp.
3. Follow diagram 1 to connect the emergency ballast and test plate. Please ensure the electricity connections conform to the National Electrical Code and local regulations if applicable. Install the test plate close to the fixture or at a remote location within 50feet is recommended. The emergency ballast install up to half distance the AC ballast manufacturer recommends install the AC ballast from the lamp or install within 50feet is recommended. Please choose the one in less distance. The emergency ballast could be mounted within 50feet if there isn't AC ballast.
4. Cut the wire between the lamp holder and AC ballast and then connect the blue and blue/white wire from emergency ballast to AC ballast and the yellow and yellow/black wires to the lamp holder.
5. The emergency ballast has to be connecting to an unswitched 120VAC or 277VAC power source with no exception. Other voltages are not accepted!! Do not join the inverter connector until the fixture is completely installed and supply AC power to the emergency ballast.
6. An additional unswitched hot wire (120VAC or 277VAC) has to be run to the junction box and connected to the emergency ballast if there is in ON SWITCHED FIXTURES.
7. Before having a long-term emergency function testing, the battery in emergency ballast has to be charged for 24 hours.
8. Please search in readily visible location and stick the label with "CAUTION: This Unit Has More Than One Power Supply Connection Point. To Reduce The Risk Of Electric Shock, Disconnect Both The Branch Circuit-Breakers Or Fuses And Emergency Power Supplies Before Servicing."
9. See Diagram2 and 3 showing basic switched and unswitched fixture connections. See back page for more detailed wiring schematics. The emergency ballast can be used with one- or two-lamp fixtures, however, it only operates one lamp in the emergency mode.

NOTE: SWITCH BOX IS NOT SUPPLIED

OPERATION:

THE CHARGING INDICATOR LIGHT WOULD BE ON TO INDICATE THE BATTERY IS BEING CHARGED WHEN AC POWER IS APPLIED WHEN POWER FAILS THE DEVICE OF THIS EMERGENCY BALLAST WILL OPERATE LAMPS AT LEAST 90MINUTES.

DIAGRAM 1



- ① - Flexible conduit (supplied) to connect ballast wire.
- ② - Existing conduit to run existing wire to lamp holder (AC ballast on junction box). If AC ballast is on reflector, run yellow, and blue wires from emergency ballast through this conduit.
- ③ - AC line in.
- ④ - Conduit and junction box (not supplied), necessary for remote installation.

MAINTENANCE:

NOTE: SERVICES SHOULD ONLY PERFORMED BY QUALIFIED PERSONNEL.

THE EMERGENCY BALLAST SHOULD BE CHECKED PERIODICALLY TO CONFIRM FUNCTIONING AND THE FOLLOWING SCHEDULE IS RECOMMENDED.

- 1) TO INSPECT THE CHARGING INDICATOR EVERY MONTH AND CONFIRM THAT IS ILLUMINATED.
- 2) PUSH THE TEST SWITCH FOR 30 SECONDS TO ENSURE THE EMERGENCY BALLAST IS FUNCTIONING. RECOMMENDED TO PERFORM THIS TESTING IN EVERY 30 DAYS.
- 3) PERFORMING A LONG-TERM TEST (90 MINUTE BATTERY DISCHARGE) IN EVERY YEAR. THE LAMPS SHOULD BE OPERATED FOR NO LESS THAN 90 MINUTES.

DIAGRAM 2

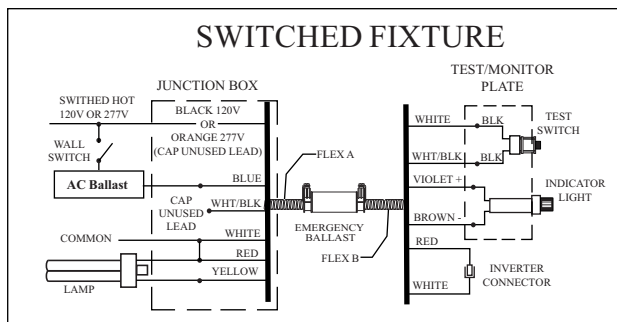
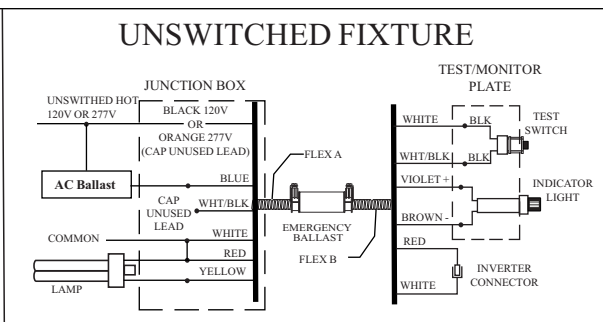


DIAGRAM 3



For 120V, connect unswitched hot to black emergency ballast lead and cap unused orange wire.
For 277V, connect unswitched hot to orange emergency ballast lead and cap unused black wire.

WIRE DIAGRAMS FOR 1-LAMP EMERGENCY OPERATION

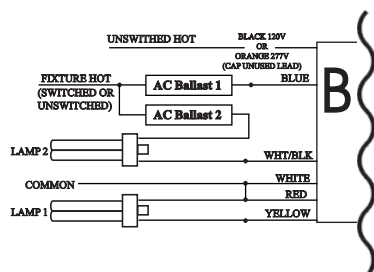
EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

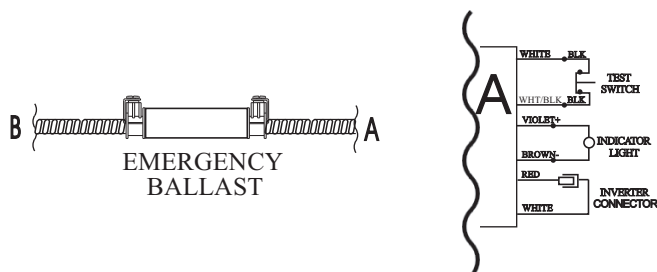
A. TWO-LAMP FIXTURE, TWO SIMPLE REACTOR AC BALLASTS

(Lamp 1 operates in emergency mode)

1. B) FLEX Conduit Wiring Diagram:



2. A) FLEX Conduit Wiring Diagram:



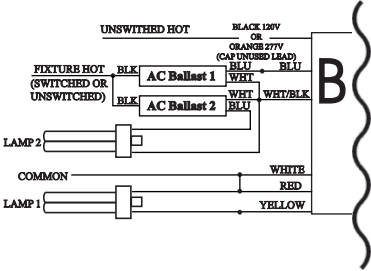
WIRE DIAGRAMS FOR 1-LAMP EMERGENCY OPERATION

EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

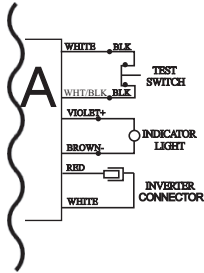
TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

B. TWO-LAMP FIXTURE, TWO AUTOTRANSFORMER AC BALLASTS (Lamp 1 operates in emergency mode)

1.B) FLEX Conduit Wiring Diagram:

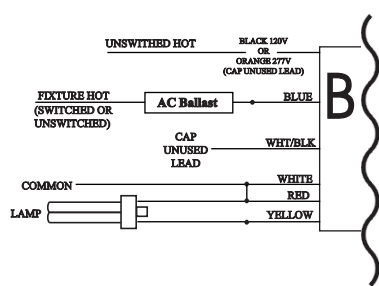


2.A) FLEX Conduit Wiring Diagram:

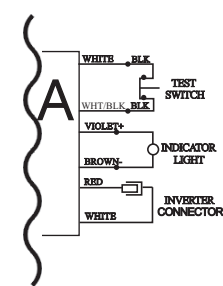


C. ONE-LAMP FIXTURE, ONE SIMPLE REACTOR AC BALLAST

1.B) FLEX Conduit Wiring Diagram:

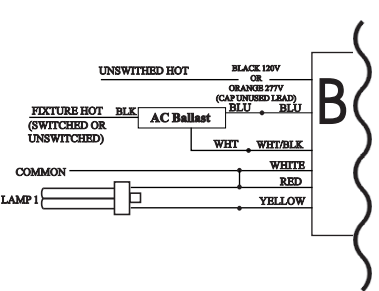


2.A) FLEX Conduit Wiring Diagram:

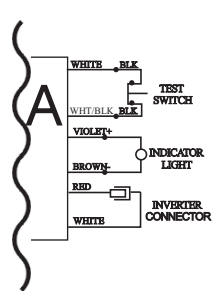


D. ONE-LAMP FIXTURE, ONE AUTOTRANSFORMER AC BALLAST

1.B) FLEX Conduit Wiring Diagram:

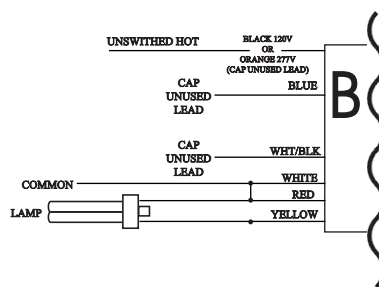


2.A) FLEX Conduit Wiring Diagram:

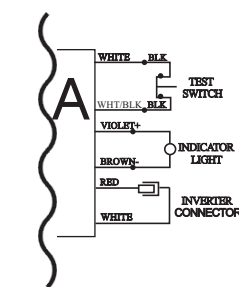


E. ONE-LAMP FIXTURE WITHOUT AC BALLAST

1.B) FLEX Conduit Wiring Diagram:

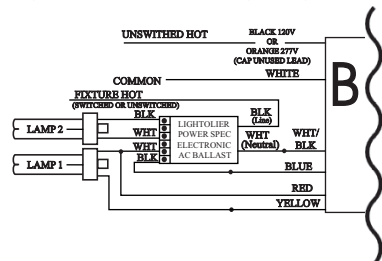


2.A) FLEX Conduit Wiring Diagram:

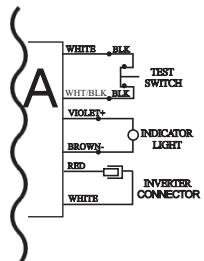


F. TWO-LAMP FIXTURE, TWO LAMP LIGHTOLIER POWER SPEC ELECTRONIC AC BALLAST (Lamp 1 operates in emergency mode)

1.B) FLEX Conduit Wiring Diagram:

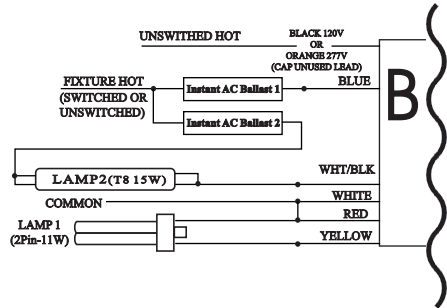


2.A) FLEX Conduit Wiring Diagram:

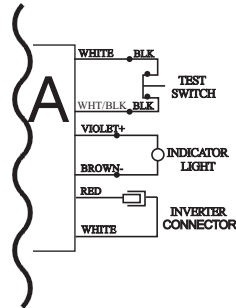


BAL650C-2 Return sample re-test wiring diagram

1.B) FLEX Conduit Wiring Diagram:

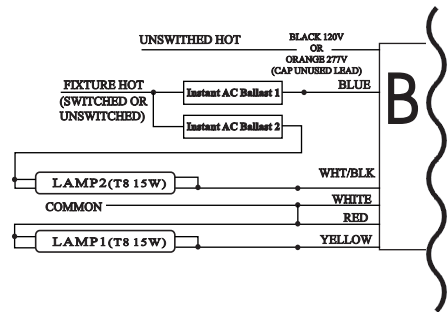


2.A) FLEX Conduit Wiring Diagram:



BAL650C-2 Production on-line test wiring diagram

1.B) FLEX Conduit Wiring Diagram:



2.A) FLEX Conduit Wiring Diagram:

