IMPORTANT SAFEGUARDS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

READ AND FOLLOW SAFETY INSTRUCTIONS

1. When installing fluorescent type EM fixtures make sure all connections are in accordance National Electrical Code and any local regulations.
2. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
3. To reduce the risk of electrical shock, disconnect both normal and emergency power supplies and battery connector of the emergency ballast before servicing.
4. Do not attempt to service the battery. A sealed no maintenance battery is used that is not field replaceable. Contact the factory for information on service.
5. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
6. Do not install near gas or electric heaters.
7. Servicing should be performed by qualified service personnel.
8. Do not use this equipment for other than intended use.

INSTALLATION

WARNING: TO PREVENT HIGH VOLTAGE ON RED AND YELLOW OUTPUT LEADS PRIOR TO INSTALLATION, BATTERY CONNECTOR MUST BE OPEN. JOIN BATTERY CONNECTOR AFTER INSTALLATION, THEN TURN AC POWER ON.

NOTE: MAKE SURE THE NECESSARY BRANCH CIRCUIT WIRING IS AVAILABLE. AN UNSWITCHED SOURCE OF POWER IS REQUIRED. THE BATTERY BACKUP BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT AS THE AC BALLAST.

1. IF FIXTURE IS TO BE SWITCHED, AN ADDITIONAL UNSWITCHED HOT WIRE MUST BE RUN TO THE FIXTURE AND CONNECTED TO THE EMERGENCY BALLAST. THE EMERGENCY BALLAST MUST BE CONNECTED TO AN UNSWITCHED POWER SOURCE FOR PROPER OPERATION.
2. SEE WIRING DIAGRAMS SHOWING BASIC FIXTURE CONNECTIONS. AFTER FIXTURE INSTALLATION IS COMPLETE, JOIN THE BATTERY CONNECTOR, THEN SUPPLY AC POWER TO THE FIXTURE.
3. FOR LONG-TERM TESTING OF THE EMERGENCY FUNCTION, THE EMERGENCY BALLAST MUST BE CHARGED FOR AT LEAST 24 HOURS.
4. THE FIXTURE MAY BE PROVIDED WITH AN EMERGENCY BALLAST WITH A 120vac (BLACK) AND 277vac (ORANGE) TAP, WHICH WILL ONLY OPERATE ON THESE TWO VOLTAGES. OR A MULTI-VOLT EMERGENCY BALLAST THAT WILL OPERATE ON ANY VOLTAGE BETWEEN 120–277vac. SEE BALLAST FOR SPECIFIC TYPE.

OPERATION

When AC power is applied, the charging indicator light is illuminated, indicating that the battery is being charged. When power fails, the battery backup ballast automatically switches to backup power, operating one lamp at reduced illumination for at least 90 minutes.
MAINTENANCE

Although no routine maintenance is required to keep the battery backup ballast functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the backup operation of the fixture at 30-day intervals for a minimum of 30 seconds. One lamp should operate at reduced illumination.
3. Conduct a 90 minute discharge test once a year. One lamp should operate at reduced illumination for at least 90 minutes.

REFER ANY SERVICING INDICATED BY THESE CHECKS TO QUALIFIED PERSONNEL.

PROGRAM START – WIRING DIAGRAM – 3 LAMPS FIXTURE WITH EM OPTION

NOTE: SECOND AND THIRD LAMP CIRCUIT NOT SHOWN. SEPARATE FROM EMERGENCY BALLAST WIRING.

1. BATTERY CONNECTION: MUST BE CONNECTED IN THE FIELD AFTER WIRING IS COMPLETED AND PRIOR TO ENERGIZING FIXTURE.

PROGRAM START – WIRING DIAGRAM – 2, 4 OR 6 LAMPS FIXTURE WITH EM OPTION

NOTE: FOURTH, FIFTH AND SIXTH LAMP CIRCUIT NOT SHOWN. SEPARATE FROM EMERGENCY BALLAST WIRING.

1. BATTERY CONNECTION: MUST BE CONNECTED IN THE FIELD AFTER WIRING IS COMPLETED AND PRIOR TO ENERGIZING FIXTURE.
INSTANT START – WIRING DIAGRAM – 3 LAMPS FIXTURE WITH EM OPTION

NOTE: SECOND AND THIRD LAMP CIRCUIT NOT SHOWN. SEPARATE FROM EMERGENCY BALLAST WIRING.

1. BATTERY CONNECTION: MUST BE CONNECTED IN THE FIELD
   AFTER WIRING IS COMPLETED AND PRIOR TO ENERGIZING FIXTURE.
   2. REFER TO TABLE (1) IN MANUFACTURER INSTALLATION INSTRUCTIONS BEFORE CONNECTING. ONLY BDL500 BALLAST USE THIS BROWN CONNECTOR.

INSTANT START – WIRING DIAGRAM – 2, 4 OR 6 LAMPS FIXTURE WITH EM OPTION

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