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I-48-DL

TBTS SERIES D
EMERGENCY
LIGHTING EQUIPMENT
DAMP LOCATION LISTED

INSTRUCTION MANUAL

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **CAUTION** – To prevent electrical shock, do not mate unit connector until installation is complete and A.C. power is supplied to the unit.
2. **CAUTION** – This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the A.C. branch circuit and by disconnecting the unit connector.
3. **CAUTION** – This is a sealed unit. The integral, high temperature Ni-Cad battery is not replaceable. Replace the entire unit when necessary and recycle or dispose of the nickel-cadmium battery properly.
4. **DO NOT USE OUTDOORS.** The **I-48-DL** is for use with grounded, UL Listed, damp location rated and enclosed and gasketed fixtures except in heated air outlets or hazardous locations.
5. The **I-48-DL** requires an unswitched A.C. power source of either 120 or 277 volts. Properly cap the unused A.C. lead.
6. Do not mount near gas or electric heaters.
7. The **I-48-DL** should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
8. **The I-48-DL is suitable for mounting in the ballast compartment only.**
9. The **I-48-DL** will cold strike and operate *one 2'–8'* or *two 2'–4'* instant start, rapid start, U shape or circline, T8 through T12 fluorescent lamps, including energy saving and long 4 pin compact lamps for 90 minutes.
10. The **I-48-DL** is compatible with most A.C. ballasts (including multiple lamp) as follows:
Magnetic ballasts – either one or two lamp emergency operation.
Electronic ballasts – one lamp emergency operation, consult Customer Service for two lamp emergency operation wiring diagrams.
11. Suitable for use in damp locations and in enclosed and gasketed fixtures.
12. For use in 0° C minimum, 50° C maximum ambient temperatures.
13. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
14. Do not use this equipment for other than intended use.
15. Install in accordance with the National Electrical Code and local regulations.
16. Installation and servicing should be performed by qualified personnel.
17. Lighting fixture manufacturers, electricians, and end-users need to ensure product system compatibility before final installation.

SAVE THESE INSTRUCTIONS



THIS UNIT CONTAINS A
RECHARGEABLE NICKEL-
CADMIUM BATTERY. PLEASE
RECYCLE OR DISPOSE OF
PROPERLY.

INSTALLATION INSTRUCTIONS

CAUTION: Before installing, make certain the A.C. power is off and the I-48-DL unit connector is disconnected.

1. LAMPS OPERATED

The **I-48-DL** can be used with most 2'-8' lamps. Refer to the chart below for the type of lamp(s) operated and the number of lamps to be operated in emergency mode. Contact Customer Service for answers about specific lamps.

OPTION	LAMP TYPE	EMERGENCY OPERATION	*VIOLET LEADS
1	2'-4' T-8/T-12 Single & Bipin Pin	One Lamp	Connected
2	5'-8' T-8/T-12 Single & Bipin Pin	One Lamp	Disconnected
3	2'-4' T-8/T-12 Single & Bipin Pin	Two Lamp	Disconnected

*The 6" violet leads provide the lamp selection option. The unit is shipped from the factory with the leads disconnected and capped.

2. MOUNTING THE I-48-DL

Remove the ballast channel cover. Mount the **I-48-DL** in the ballast channel at least 1/2" away from the A.C. ballast(s).

When battery packs are remote mounted, the remote distance can not exceed 1/2 of the distance from ballast to lamp specified by the A.C. ballast manufacturer. For example, if the A.C. ballast manufacturer recommends no more than 25' remote distance, then the battery pack should not exceed 12 1/2'. Under no circumstances should the battery pack exceed a distance of 50' from the lamp.

3. WIRING

Refer to the wiring diagrams on the back page for the appropriate wiring of lamp(s) and ballast. Install in accordance with the National Electrical Code and local regulations. For additional wiring diagrams consult Customer Service.

4. INSTALLING THE THREADED BODY TEST SWITCH (TBTS)

Recessed Troffer Fixture – Select a convenient location with proper clearance in the ballast cover and drill or punch a 7/8" hole (1/2" knockout). Insert the 7/8" bushing into the hole. Push the plastic tube through the bushing. Route the leads of the **TBTS** through the plastic tube. Connect the LED wires from the unit to the **TBTS** (Red/Black or Red w/tag to Red, White/Red to White). Push the entire assembly back into the tube until the lens collar rests against the plastic tube. The plastic tube should be adjusted so that the **TBTS** is within 1/4" of the fixture lens. The **TBTS** must be visible after installation. Refer to *Illustration 1*.

Strip Fixture – Select a convenient location on the fixture so the **TBTS** can be seen after installation. Allow for proper clearance inside the fixture and drill or punch a 1/2" hole. Remove the nut from the **TBTS**. Push the **TBTS** housing into the 1/2" hole and secure with the nut. Connect the LED wires from the unit to the **TBTS** (Red/Black or Red w/tag to Red, White/Red to White). Refer to *Illustration 2*.

Illustration 1 Recessed Troffer Fixture

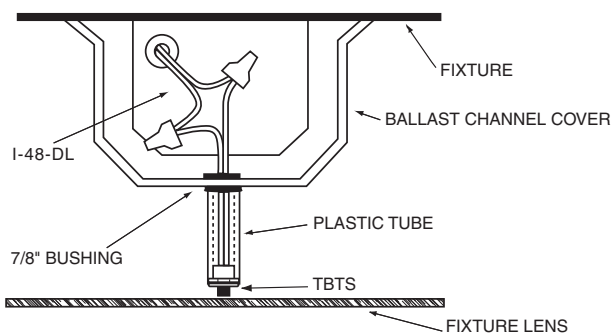
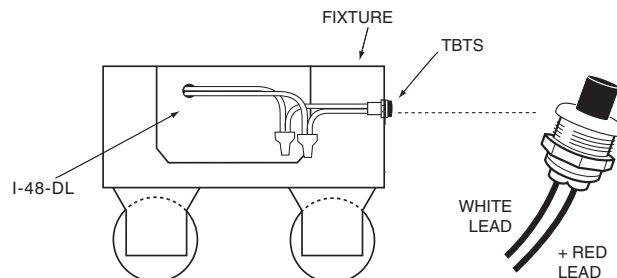


Illustration 2 Strip Fixture



OBSERVE PROPER POLARITY

