INSTALLATION INSTRUCTIONS
LED EMERGENCY DRIVER
QD MODELS
PS730, PS750, PS1030, PS1050 MVOLT
Universal Voltage 120 to 277VAC Input – Class 2 Output

READ AND FOLLOW THESE INSTRUCTIONS BEFORE INSTALLATION TO INSURE PROPER AND SAFE OPERATION

SAVE THESE INSTRUCTIONS

LED EMERGENCY DRIVER COMPATIBLE WITH THE LED LOADS LISTED IN SPECIFICATIONS. FOR OTHER LED LOADS CONTACT THE FACTORY. www.powersentrysafety.com 1-800-300-7017

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

WARNING

- Dual Power Supply - Risk of Shock Hazard Even if AC Power is OFF
- Disconnect polarized Test Switch / Pilot Light connector before servicing fixture
- DO NOT remove the wire harness connector when AC Power is ON
- DO NOT mount near a gas or electric heater

CAUTION

- Before wiring to power supply, turn off Electricity at fuse panel or circuit breaker
- All servicing shall be performed by qualified personnel
- DO NOT attempt to service the battery. It is not field replaceable
- DO NOT use in hazardous locations
- DO NOT use this product outdoors
- DO NOT use this product in air handler heated outlets
- DO NOT use accessory equipment not recommended by the manufacture
- DO NOT use this equipment for other than its intended use

IMPORTANT SAFEGUARDS

- Consult your local building code for approved wiring or installation
- The emergency LED Driver must be connected to an un-switched AC power source of 120 to 277 Vac
- This product is for use with indoor and damp rated fixtures sealed or unsealed
- Equipment should be mounted in a location and at heights where it will not be readily be subject to tampering by unauthorized personnel
- Make sure that the branch circuits are derived from a common phase for both normal lighting LED drivers and the LED Emergency Driver prior to installation
- When used with a switched fixture, it is important that the power to the LED Emergency Driver must be provided by an un-switched circuit.
- Damage to the battery will occur if the Test Switch / Pilot Light connection is made for a prolonged period of time without AC power being provided.
- LED Emergency Drivers are not field serviceable
- Allow LED Emergency Drivers to charge 24 hrs before initial and full discharge testing
- Do not locate the Test Switch / Pilot Light or route cable within 1" of the fixture LED Modules
- Emergency lighting system should be tested per all of the required tests and as often as local codes require or at least quarterly to insure all components are operational.

CONTAINS NICKEL-CADMIUM RECHARGEABLE BATTERY. MUST BE RECYCLED OR DISPOSED OF PROPERLY.
LED Emergency Driver System Components

Components Description

1. LED Emergency Driver Housing
2. Mounting Slots
3. Test Switch / Pilot Light (TS/PL)
4. TS/PL Mounting Clip
5. TS/PL Connector
6. Charge Indicator Sticker
7. Area reserved for future use
8. Quick Disconnect Wire Harness Plug
9. Quick Disconnect LED Emergency Driver Power Connector
10. TS/PL Label

Installation

Step 1 – Install LED Emergency Driver
1. Turn off all external power to the luminaire
2. Inspect LED Emergency Driver and make sure the TS/PL connector is not connected. If so, disconnect it before installation of the LED Emergency Driver.
3. Position the unit in the fixture wireway and fasten securely through the Mounting Slots. If necessary, drill holes and mount with sheet metal cutting screws (not provided)
4. Attach a flat wire tie holder as shown in Figure 2
5. Refer to the appropriate wiring diagram, Connect unit to the LED module and AC input power as indicated in the wiring diagram.
6. Attach and fully engage the Quick Disconnect Wire Harness Plug into the LED Emergency Driver Power Connector. Inspect that the Wire Harness Plug is squarely seated against the LED Emergency Driver Power Connector.
7. Insert a wire tie into the flat wire tie holder and pull the wire tie tight as shown in Figure 3
8. Inspect that the Wire Harness Plug is still squarely seated against the LED Emergency Driver Power Connector.

Step 2 – Install Test Switch / Pilot Light (TS/PL)

CAUTION

Fixture contains live wires during portions of the installation. Use insulated tools and gloves.

1. Locate a suitable location for the TS/PL and cable that is at least 1" from the fixture LED Module and is visible outside the fixture lens
2. Drill or punch a ½" diameter hole in the fixture wall or wireway cover
3. Insert one side of TS/PL into the hole from the inside of the fixture housing until it snaps in place.
4. Slide TS/PL Mounting Clip firmly to lock and secure the TS/PL assembly
5. Mark the TS/PL location on the fixture with the TS/PL Label.
6. Apply continuous AC power to the LED Emergency Driver
7. Connect and fully engage the TS/PL Connector to the LED Emergency Driver. Insure the TS/PL Connector latch is properly seated in the recess slot on the LED Emergency Driver housing
8. Verify the TS/PL light is on.
9. Close fixture housing and insure no possibility of pinching any wire between housing channel and cover.
Installation Instructions for Power Sentry Emergency LED Drivers –QD MVOLT Series

Step 3 Installation Inspection
Prior to operation of the LED Emergency Driver in normal service perform the following installation inspections. **Charge LED Emergency Driver at least 1 hour before doing a functional test. Allow 24 Hrs for full rated performance of the Emergency LED Emergency Driver.**

1. Check the equipment rating to be sure the fixture ballast will receive the proper line voltage
2. Be sure the TS/PL pilot lamp is on. If not see Troubleshooting Section
3. Press TS/PL test button. The pilot will turn off, within 5 seconds, the LED Module should then be operating at a reduced light output.
4. Upon release of the TS/PL test button, after a short period, the fixture should return to normal operation
5. If the LED Module in the fixture returns to normal operation, the fixture is ready for normal and emergency service. If not, see Troubleshooting Section

Normal Operation
During normal operation AC power is applied, the charging indicator light is illuminated indicating the battery is charging. When the power fails the LED Emergency Driver automatically switches to emergency power from the internal NiCd battery that will operate the LED Module for a minimum of 90 minutes. When the AC power is restored, the LED Emergency Driver switches the fixture back to the normal mode in 3-5 seconds.

Periodic Maintenance
Emergency lighting system should be tested per all of the required tests and as often as local codes require or at least quarterly to insure all components are operational

1. Periodically manually test the emergency lighting system by pressing the TS/PL test button
2. Insure the Red LED charging light is on when the AC power is on
3. Check the system LED Module to insure they operate in both the with the normal AC and emergency modes

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
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| Emergency LED Module does not operate when TS/PL Button is pressed | 1. Wiring of the LED Emergency Driver to the LED Module  
2. Use of a LED Module not listed as compatible with the LED Emergency Driver  
3. Battery not charged at least 1 hour  
4. TS/PL not inserted properly to the LED Emergency Driver |
| TS/PL Charging LED not on | 1. AC Power is Off  
2. TS/PL not inserted properly to LED Emergency Driver  
3. Wrong TS/PL |
| Fixture does not operate in the Normal mode | 1. Wiring of the LED Emergency Driver the LED Module and the normal LED Driver  
2. AC power off to the normal ballast (Uses remote fixture switch) |
| LED Emergency Driver does not operate LED Module in the emergency mode for at least 90 minutes | 1. Battery not fully charged  
2. Wrong type or number of LED Modules connected  
3. Battery at end of life |

Specifications

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Wiring Diagrams

READ ALL SAFETY INSTRUCTIONS AND IMPORTANT SAFEGUARDS PRIOR TO WIRING AND INSTALLATION

SINGLE CHANNEL LED DRIVER - ONE LED MODULE

![Wiring Diagram](image)

Figure A
Typical Wiring