

INSTRUCTIONS

LED Emergency Back-up Type C Driver

RAB®

RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

DRI-5-EMGR-TYPE C



IMPORTANT

READ CAREFULLY BEFORE INSTALLATION. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB drivers must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNINGS:

- **WARNING: Risk of fire or electric shock.** Luminaire wiring and electrical parts may be damaged when drilling for installation of LED Emergency Backup. Check for enclosed wiring and components.
- **WARNING: Risk of fire or electric shock.** This LED Emergency Backup installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- **WARNING: Risk of fire or electric shock.** LED Emergency Backup is only for use in surface mount or recessed Type IC or Non-IC luminaires listed to UL Standards. Suitable for use in damp locations and plenum spaces. Not for use in heated air outlets or hazardous locations.
- **WARNING: Risk of fire or electric shock.** Do not alter, relocate, or remove wiring, lamp holders, power supply, or any other electrical component.
- **WARNING: To prevent wiring damage or abrasion,** do not expose wiring to edges of sheet metal or other sharp objects.
- **WARNING: Do not make or alter any open holes of the wiring enclosure or electrical component enclosure during installation.** Only those open holes indicated in the instructions and/or drawings may be added or altered as a result of LED Emergency Backup installation. Do not leave any other open holes in the wiring enclosure or electrical component enclosure during installation.

CAUTION:

- **CAUTION: Before installing,** make certain the AC power to the fixture is off.
- **CAUTION: The electrical rating of this product is 120-277V.** Installer must confirm that there is 120- 277V at the fixture before installation.
- **CAUTION: To prevent electrical shock,** only mate unit connector after installation is complete and before the AC power to the fixture is back on.
- **CAUTION: This fixture provides more than one power supply output source.** To prevent electrical shock, disconnect both normal and emergency sources by turning off the AC branch circuit and disconnecting the unit connector.
- **CAUTION: Sealed unit. BATTERY not replaceable.** Replace entire unit when necessary
- **CAUTION: Risk of shock - disconnect emergency and normal input power sources before servicing.**
- **CAUTION: To reduce the risk of electric shock - disconnect both normal and emergency sources within this unit before servicing any equipment connected to this unit.**
- **Equipment with provision for field wiring shall be marked where visible during field wiring and in type no less than 3/32 inch (2.4mm) high, as follows:** "Use copper or aluminum wire" or "Al-Cu" or "Cu-Al" .
- **Do not use outdoors.**
- **This LED Emergency Backup unit requires an un-switched AC power source of 120-277V, 50/60 Hz.** The AC driver **MUST** be on the same branch circuit as the LED Emergency Backup unit.
- **Do not let power supply cords touch hot surfaces.**
- **Do not mount near gas or electric heaters.**
- **Install in accordance with the National Electrical Code and local regulations.**
- **Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.**
- **The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.**
- **Do not use this equipment for other than intended use.**
- **The driver is intended for ordinary locations and for permanent installation into one or more Listed emergency luminaires.**
- **This equipment has not been investigated for use in an air-handling fixture, it is not suitable in a heated air outlet.**
- **For use with a metal enclosed wiring system.**

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WHAT'S IN THE BOX

- DRI-5-EMGR-TYPE C (1)
- Instruction Sheet(1)
- Wire Nuts(2)
- Test Button(1)

INSTALLATION INSTRUCTIONS

1. Read and understand all warning and notes stated above, before proceeding with installation.
2. Fixture Compatibility & Applications
The DRI-5-EMGR-TYPE C emergency packs can be used with most LED tube lamp that have a forward voltage requirement between 120-277VAC. Confirm that the Emergency Pack selected does not exceed the power delivered to the LED load under normal operation from the AC driver. These emergency packs have been evaluated to and found compliant to UL 924. The emergency pack assembly is accepted as a component of a luminaire where the suitability of the combination shall be determined by UL or Authorities Having Jurisdiction. The as-installed performance of the system must meet or exceed all Federal, State, and Local code requirements.
3. Determining Adequacy of Means-of-Egress Lighting Levels
Follow industry standards by utilizing available .ies files and lighting design software for your dedicated emergency luminaires, with the above calculated emergency lumens, and validate your as-installed plans in accordance with the applicable life safety codes governing your project.
4. Mounting
Mount the LED Emergency Back-up unit into an enclosed wireway or existing fixture wiring compartment. (Figure 1) Ensure spacing is at least 1/2" away from existing AC driver. Customer Service for the maximum allowable distance between the battery pack and the load when battery pack is being remotely mounted. To install the test button, select a location on the fixture that can be seen after installation and when servicing. Ensure proper clearance and drill a 1/2" hole. Insert test button into hole and secure with supplied nut.
5. Wiring & Labeling
Complete the wiring as shown above. Install in accordance with National Electric Code. Emergency Pack and AC Driver must be on the same branch circuit. Live lead going to the black wire on the one pin of the tube is un-switched. When used with switched fixtures, the emergency pack must be wired ahead of the switch. Do not join battery pack connector until all other wiring is complete and AC power is on.
6. Complete Installation
When the installation is complete, verify all necessary connections have been made. Switch the AC Power on and join the battery pack connector.

INSTALLATION INSTRUCTIONS (Cont'd)

7. Operation
Normal Mode: AC power is present. AC power will operate the LED tube lamp. The emergency pack is charging in a standby mode. The test button will be lit, showing that the battery is charging. Emergency Mode: When the AC power goes out, the emergency pack detects the power outage and automatically switches to the emergency mode. The LED tube lamp is illuminated, for a minimum of 90 minutes. When AC power is restored, the emergency pack switches back to Normal Mode and starts re-charging.
8. Testing Procedures
Press the test button to cut the power to the AC driver and switch the system to emergency mode. Release the test button to return to normal mode. Switch off the circuit breaker to simulate a full power outage. For Initial Testing, allow the unit to charge approximately 1 hour, then conduct a short discharge test. Allow a 24 hour charge before conducting a one hour test.

WIRING DIAGRAMS

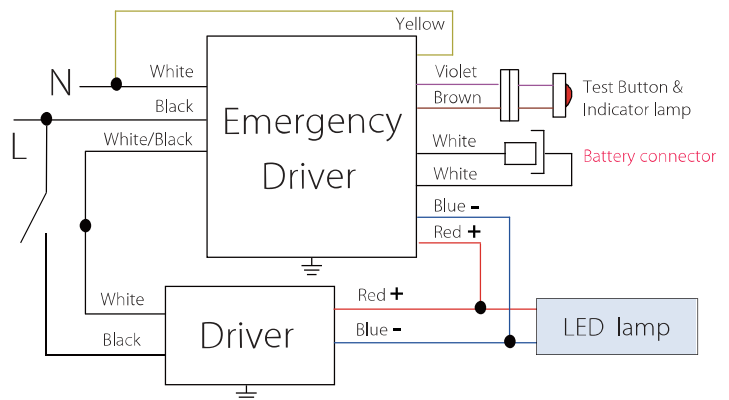


Fig. 1

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.



Easy Answers

rablighting.com
Visit our website for product info

Tech Help Line
Call our experts: 888 722-1000

e-mail
Answered promptly - sales@rablighting.com

Free Lighting Layouts
Answered online or by request

RAB WARRANTY: RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.