WARNINGS AND CAUTIONS

- TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring, servicing fixture or changing lamps.
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are not sure about any part of these instructions, consult an electrician.
- This device can be wired either as a Class 1 or Class 2 wiring device. Be sure to install in the same manner as the other devices on the DALI® loop.
- When in doubt, install as a Class 1 wiring device. Consult local building codes and regulations for proper low-voltage installation.

INSTALLATION INSTRUCTIONS

SPECIFICATIONS

DALI® Output Voltage:

DALI® Output Current: 110mA

Approved for Class I or II control wiring

Input Voltage:

FEATURES

- A maximum of 2 Power Packs can be added in parallel as long as the total current supply on a single loop is below 250mA
- Control wiring can be Class 1 or Class 2 installed
- Polarity-independent control wiring
- Flexible 2-wire DALI® loop control wiring Daisy Chain, Point to Point, Star or Mix Method

DESCRIPTION

Leviton's DALI® Loop Power Pack, Cat. No. CD100, provides power to a DALI® network. The DALI® Loop Power Pack is part of Leviton's DALI® compatible products and can be used with Leviton's CD250 Controller or other DALI® compatible controls and ballasts. Installation and information for the Controller is provided in the Controller Instruction Sheet. A single Power Pack can provide 110mA of power, which would be used by a combination of DALI® compatible controllers and ballasts. Use the following rule to determine the number of controllers and ballasts that can be powered by one Power Pack. For reference, a Leviton DALI® Dimming/Scene Controller (CD250) consumes a maximum of 10mA of power and a DALI® ballast consumes up to a maximum of 2mA.

No. of DALI[®] controllers x Current Consumption (10mA for Leviton's CD250) + No. of DALI[®] ballasts x 2mA ≤ 110mA

If more current is required, one other Leviton DALI® Loop Power Pack can be added in parallel to a single DALI® network, which would bring the total current supply to 220mA (refer to Wiring Diagram 2 for dual Power Pack application). Please note that the total current supply on a DALI® loop cannot exceed 250mA.

The Power Pack is mounted directly to a junction box (refer to Figure 1). The unit must be installed in a properly grounded metal 4" (10.16 cm) outlet box, a minimum of 2 1/8" (5.39 cm) deep. All Class 2 (low-voltage) wiring must be contained within the Class 2 compartment (the area enclosed by the isolation barrier - refer to Figure 2). All Class 1 (high-voltage) wiring must be contained within the Class 1 compartment (refer to Figure 2). Install or rearrange circuit wiring so all high-voltage circuit and load wires enter the box from one side, and all low-voltage wires enter from the other.





120/277VAC ± 10%

12VDC nominal

DALI is a registered trademark of ZVEI

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Limited 2 YEAR WARRANTY AND EXCLUSIONS Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including without limitation, damage to, or loss of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tor or otherwise.



ENGLISH

DI-000-CD100-00F

INSTALLATION

- 1. WARNING: TO AVOID FIRE, SHOCK, OR DEATH; turn off power at circuit breaker or fuse and test that power is off before wiring!
- 2. Remove junction box cover plate and save screws. The Power Pack will take the place of the junction box cover (refer to Figure 1).
- Prepare high and low-voltage wires by stripping 3/4" (1.9 cm) of insulation to expose bare copper at the end of each wire. 3.
- 4. LINE VOLTAGE CONNECTIONS: Identify the voltage of your lighting circuit before attempting to install the Power Pack, either 120 or 277VAC. In accordance with local wiring codes, connect lead wires of Power Pack per appropriate WIRING DIAGRAM as follows: Line (BLACK) lead to the Hot (BLACK) circuit conductor. Connect the Power Pack Neutral (WHITE) lead to the Neutral (WHITE) circuit conductor. Twist strands of each lead tightly and, with circuit conductors, push firmly into appropriate wire connector. Screw connectors on clockwise making sure that no bare conductor shows below the wire connectors. Secure each connector with electrical tape. The Power Pack Line voltage wires exit through the back of the device and are designated as follows:

BLACK - 120VAC Line ORANGE - 277VAC Line

WHITE - 120 or 277VAC Neutral

CAUTION: DO NOT connect both 120 and 277VAC wiring to the Power Pack at the same time, and DO NOT connect both the BLACK and ORANGE high voltage wires to the same circuit

- Ensure that Power Pack Cat. No. CD100 is wired properly before mounting it back to the junction box. Carefully position all high-voltage wires in the junction box and assure that all low-voltage wires are on the Class 2 side of the isolation barrier. Mount the Power Pack to the junction box using the cover plate screws.
- LOW-VOLTAGE CONNECTIONS: Remove the cover plate for the low-voltage compartment. Connect the low-voltage leads of Power Pack per appropriate WIRING DIAGRAM as follows: RED (DALI®) and BLACK (DALI®) leads to the PURPLE (DALI®) wires on the DALI® Loop. Twist strands of each lead tightly and push firmly into appropriate wire connector. Screw connectors on clockwise making sure that no bare conductor shows below the wire connectors. Secure each connector with electrical tape. The Power Pack Low-voltage leads exit through the side of the device, inside the isolation barrier and have polarity designations as follows: RED - DALI® wire (Positive)

BLACK - DALI® wire (Negative)

- Carefully position the low-voltage wires in the low-voltage compartment and replace the cover.
- 8. If a second CD100 DALI® Loop Power Pack needs to be installed, refer to Wiring Diagram 2 for parallel installation guidelines.

9. Restore power at the fuse or circuit breaker. INSTALLATION IS COMPLETE.



NOTES:

- DALI® Loop wires are not polarity sensitive
- Controllers and Power Supply can be connected to any point on the DALI® oop

WHEN USING A CD250 CONTROLLER

Controller leds do not turn ON:

Circuit breaker or fuse is OFF

- Turn the circuit breaker or fuse ON. Ensure that the lights being controlled are in working order (i.e. failed bulbs).
- Verify wiring on the DALI® loop

If more than one Power Pack is installed on the same loop, check to make sure wiring of each Power Pack is polarity matched on the DALI® loop.

Lights will not turn ON:

- Circuit breaker or fuse is OFF.
- Turn the circuit breaker or fuse ON. Ensure that the lights being controlled are in working order (i.e. failed bulbs).
- Ensure DALI® ballast is functioning properly.
- Power Pack is wired incorrectly
- Refer to the Power Pack wiring instructions.
- Check that the Controller and ballasts have been properly programmed.
- Refer to CD250 instructions.
- Measure voltage between output wires (+12V nominal)

Lights will not turn OFF:

- Power Pack is wired incorrectly.
- Check the Power Pack's wiring.
- Ensure DALI® ballast is functioning properly.
- Check that the Controller and ballasts have been properly programmed. Refer to CD250 instructions.
- Check for a shorted connection on the DALI® loop.