DECORA®
COLLECTION BY LEVITON

CENTURA™
Switching Controller (Multi-Location)

Cat. No. CN220

24VDC
24mA, 0.6W

For use w/Dimming Power Pack and other LCnet products

For more information go to www.leviton.com/centura

INSTALLATION INSTRUCTIONS

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DI-000-CN220-00A-Pilot

For Technical Assistance Call:
1-800-824-3005 (U.S.A. Only)
www.leviton.com

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FEATURES

- Leviton's Decora® Style design
- Enables address settings of Controller
- Low-Voltage for easy installation
- Rocker mechanism for easy lighting control
- Color conversion available
- Fits standard wall box

INTRODUCTION

The Switching Controller, Cat No. CN220, allows easy-to-use manual control of a Centura Lighting Control System. The Controller can be used to turn ON and OFF dimming loads, but it is intended to control non-dimming loads. The Controller has a rocker mechanism to provide simple control of your Power Pack. This allows manual control of your lights and the programming of the address for your Power Pack from a standard wall box in an easy-to-reach location. In using the Controller, you may override the automatic operation of the Power Pack to give the most convenience to your lighting needs.

DESCRIPTION

The Controller has a user friendly rocker design. There are two buttons on the face, from top down they are ON and OFF. The Controller has a removable face so that the colors can be changed.

The Controller is a component of the Centura Lighting System. It is used to provide local user control of the lights. It provides the ability to program the Power Pack address for multiple Power Pack installations. The programming sequence is described under the "TO OPERATE" section.

FCC COMPLIANCE STATEMENT

This device complies with part 15, part A of the FCC Rules. Operation is subject to the following two conditions: (1) This device must not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

INSTALLATION INSTRUCTIONS

WARNING: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

WARNING: IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

CAUTION: DISCONNECT POWER WHEN SERVICING FIXTURE OR CHANGING LAMPS.

CAUTION: THE SWITCHING CONTROLLER OPERATES OFF OF LOW-VOLTAGE (24VDC), SO CARE MUST BE TAKEN WHEN REPLACING A LIGHT SWITCH. CONSULT LOCAL BUILDING CODES AND REGULATIONS FOR PROPER LOW-VOLTAGE INSTALLATION.

TO INSTALL:

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 existing wallplate and switch or dimmer, if applicable

   CAUTION: IF APPLICABLE, ENSURE THAT CIRCUIT CONDUCTORS ARE PROPERLY CAPPED OFF WITH WIRE CONNECTORS AND REMOVED FROM WALL BOX.

3. Connect lead wires per appropriate WIRING DIAGRAM as follows: Twist strands of each lead tightly and, with low-voltage wires, 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.

4. Carefully position all wires to provide room in outlet box for Controller. Mount Controller into box with mounting screws supplied.

5. Restore power at circuit breaker or fuse. **INSTALLATION IS COMPLETE.**

COLOR CONVERSION PROCEDURE

The color of this device can be changed to suit your interior design requirements. Simply obtain a color conversion kit of the appropriate color from your Leviton distributor and proceed as follows (please note that wallplate must be removed).

1. Select the color of the face you desire.

2. The frame has snaps on its sides. Using a small screwdriver, **gently** remove the frame from the strap **(refer to Figure 2)**.
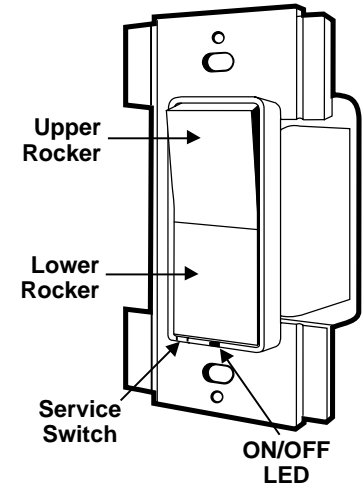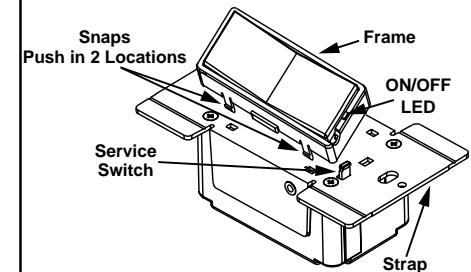

Figure 1 - Entry Station Functions

Upper Rocker

Lower Rocker

Service Switch

ON/OFF LED

Figure 2 - Color Conversion

Snaps Push in 2 Locations

Frame

ON/OFF LED

Service Switch

Strap

3. Take the new frame and position it properly to the strap. Notice that the frame has a cutout for the Service Switch lever. Line up the plastic snaps with the square holes in the strap. Insert the snaps on one side of the frame into the strap.

4. Firmly press sideways and down to slip the other snaps into place. The frame snaps in with an audible click. Ensure that all four snaps are secure. Replace Decora® wallplate. **The color conversion is complete.**

TO OPERATE

ON: Press the upper half of the rocker. The lights will fade ON.

OFF: Press the lower half of the rocker. The lights will fade to OFF (ON/OFF LED lit).

FULL BRIGHT: If the lights ON, pressing the upper half of the rocker will turn lights ON to the maximum level.

SERVICE SWITCH: On the lower left corner of the switch plate, there is a Service Switch **(refer to Figure 1)**. When servicing a controlled fixture, pull lever out (OFF position). This will send a message to the Power Pack to keep the lights OFF. After servicing is complete, push the lever in (ON position) to restore power. The lever must be pushed in all the way (ON position) for normal operation.

COMMUNICATION LED: The communication LED will flash when the Controller transmits a message, and when it receives a valid message. It is located under the wallplate (under the screwless wallplate adapter, not shown) **(refer to Figure 3)**. It is visible in the space between the frame and the wallplate adapter.

POWER PACK ADDRESS:

The Controller and the Power Pack must have the same address in order to communicate to each other. The default address is the same, but when installing multiple Power Packs, each Power Pack must have a different address.

The Controller has a rotary switch for addressing. If there is only one Power Pack on the bus then the rotary switch **DOES NOT** have to be adjusted. For installations where there are multiple Power Packs, the rotary switch is used to set the Power Pack's address **(refer to the Power Pack Instruction Sheet for further details)**.

To set the Power Pack's address, proceed as follows:

1. Remove wallplate and frame (may have to remove screwless wallplate adapter as well).

2. Using a small screwdriver rotate the rotary switch to next unused address.

3. Pull out Service Switch.

4. Press the Address Selection button on the Power Pack. The Address is now selected.

5. Return Service Switch to the IN position.

6. Address selection is finished.

NOTE: Only one Power Pack can be programmed at a time.

MULTI-LOCATION:

Up to 4 Controllers can be connected in parallel. All Controllers **MUST** be on the same address.
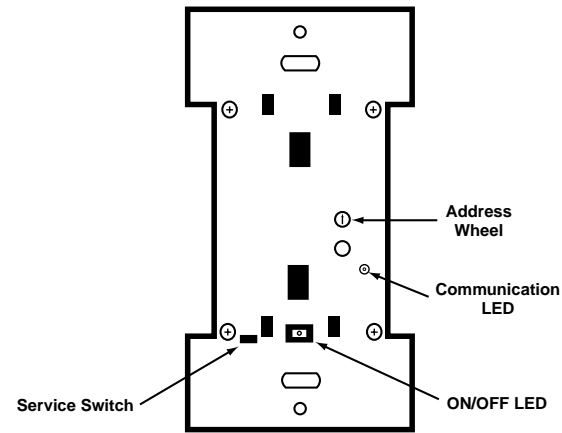

TROUBLESHOOTING

- If the LED is not on; there is no power
  - Check wiring.
- Communication LED does NOT light when the button is pressed
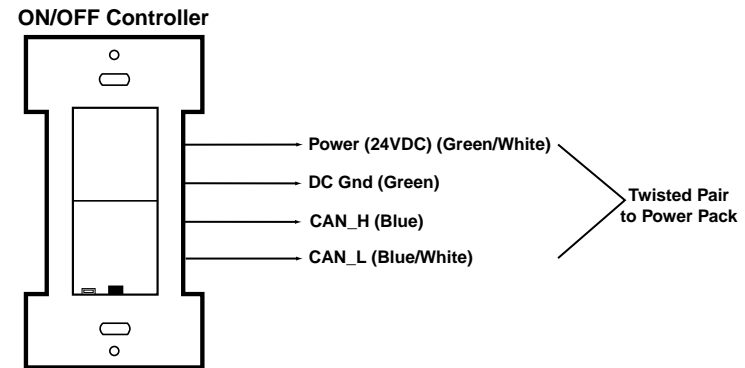 - Check power wiring connections.

For Multiple Power Packs on the Bus:

- The Controller has power (the OFF LED is ON) but pressing the buttons have no effect on the lights; there is no communication between the Controller and the Power Pack
  - If the communication LED does NOT flash when a button is pressed, see above.
  - If the communication LED does flash check the address of the Power Pack and Controller **(refer to Dimming Power Pack Instructions)**.

Figure 3 - Settings

Address Wheel
Communication LED
Service Switch
ON/OFF LED

Wiring Diagram 1 - Single Station Application

ON/OFF Controller

Power (24VDC) (Green/White)
DC Gnd (Green)
CAN_H (Blue)
CAN_L (Blue/White)

Twisted Pair to Power Pack

Wiring Diagram 2 - Two Location Application

ON/OFF Controller   **ON/OFF Controller**

NOTE: Both Controllers must have the same address for multiple location control of 1 Power Pack.

Power (24VDC)
DC Gnd
CAN_H
CAN_L

Power (24VDC) (Green/White)
DC Gnd (Green)
CAN_H (Blue)
CAN_L (Blue/White)

Twisted Pair to Power Pack

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