



TO INSTALL:

WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING! CAUTION: Use this device only with copper or copper clad wire. With aluminum wire use only devices marked CO/ALR.

1. Remove old switch and wallplate, if applicable.
2. Remove insulation on device (about 3/4").
3. Remove pre-cut insulation sleeves on each switch lead to expose bare copper strands at end.
4. Connect wires per WIRING DIAGRAM as follows: Twist strands of each end tightly together. Hold bare ends of wires together and push firmly into wire connector. Screw connector on clockwise making sure that no bare conductor shows below the connector.
5. Using a small blade screwdriver, remove the switch plate by prying it off at the bottom.
6. Using a small blade screwdriver, set the House Code Dial (RED) to the chosen Letter and the Unit Code Dial (BLACK) to the chosen Number, for the desired code.
7. If it is desirable to change the color of the device do so now by following the "Color Conversion Procedure".
8. Mount device "TOP" up. Attach wallplate.
9. Installation is complete. Restore power at circuit breaker or fuse.

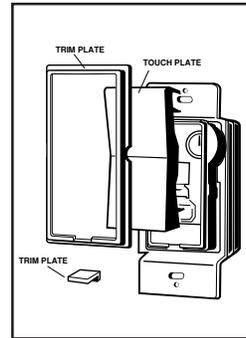
5.

NOTE: Below the actuating touch plate is a small slide switch. When servicing a controlled fixture, move this slide switch to the LEFT (OFF position). This will cut the power to the fixture. After servicing is complete, move the slide switch back to the RIGHT (ON position) to restore power. The slide switch must be in the RIGHT (ON position) for normal operation.

Color Conversion Procedure

The color of this Cat. No. 6381 can be changed to suit your interior design requirements. Simply get a color conversion kit of the appropriate color from your Leviton distributor or use the one provided, and proceed as follows:

1. The trim frame bordering the switch plate has notches on its sides. Place the tip of a small-bladed screwdriver under a notch and gently pry off the trim frame loose.
2. Remove the colored cap from the air-gap switch.
3. There is an opening along the bottom of



6.

the switch plate next to the air-gap switch. Place the screwdriver tip in this opening and gently pry off the switch plate.

4. Look at the reverse side of the new switch plate and notice that the word "TOP" has been molded into the back. This half of the switch plate must face the top of the device. Correctly position the new switch plate, then gently press it into place until it seats properly with a click.
5. Take the colored cap for the air-gap switch and notice that there is a flange along its bottom edge. This flange must face the bottom of the device or it can interfere with the action of the touch plate. Place the colored cap, flange facing the bottom of the device, on the air-gap switch.
6. Take the new trim frame and position it properly around the touch plate. Notice that the trim frame has a cut-out for the air-gap switch. With the trim frame properly positioned, gently press it into place until it seats properly with a click. The color conversion is complete.

7.

Testing Procedure

With the Cat. No. 6381 properly wired and powered, tap the switch plate several times to ensure that the module is turning its load ON and OFF in response to manual control. To check for proper local dimming, keep switch plate pressed down to confirm that load is dimming. Leave the switch in

the ON position. Next, use a Cat. No. 6320, Leviton Table Top Controller, or any other controller, to check for proper module operation as follows:

1. Transmit an OFF command to the module. It should respond by turning its assigned Load OFF.
2. Transmit an ALL LIGHTS ON command to this module from an appropriately coded controller. It should respond by turning its assigned Load ON.
3. Transmit an ALL OFF command from an appropriately coded controller. It should respond by turning its assigned Load OFF.
4. Transmit DIM and BRIGHTEN command. Lighting controlled should respond accordingly.

Perfect Performance Checklist

If the Cat. No. 6381 appears to be functioning improperly proceed with the following steps:

1. Confirm that the 6381 is wired exactly as shown in the Wiring Diagram.
2. Confirm that the module is being supplied from a 120V, 60Hz AC source ONLY.
3. Confirm that the load being controlled is in proper working order. Local switch, ON. (Check for burned-out bulbs)
4. Confirm that the load being controlled does not exceed the 500W module limit.
5. Confirm that the module's Letter and Number codes are set correctly.

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6. Confirm that the switch module's switch plate is mounted right-side up. After the switch plate has been removed to set the address code, it is possible to replace it upside down. If this happens, the switch module will respond to controller demands, but will not operate manually.
7. Confirm that the controller is powered and is set to transmit commands to the same letter and number code on the module.

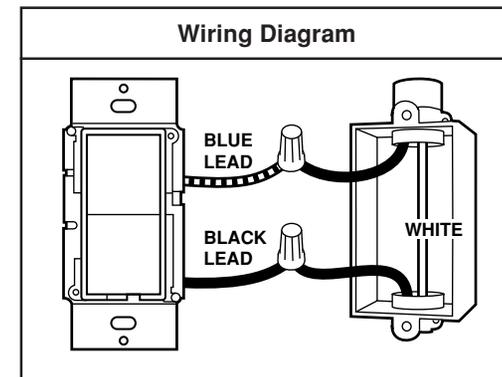
IMPORTANT: If the module still does not operate properly after following steps 1-7, the fault does not lie with the module. Proceed with steps 8 and 9.

8. Set the controller to transmit address P1. Using a Signal Strength Indicator, plugged in at the location of the controller, confirm that the controller is transmitting a minimum reading of 2 volts of command signal at the HI-RANGE setting. If the signal strength is less than 2 volts, have the controller checked
9. Check for adequate command signal at the Cat. No. 6381 location as follows:
 - a. Plug the Cat. No. 6385 Signal Test Transmitter into a receptacle on the same circuit as the controller.
 - b. Using the Cat. No. 6386 Signal Strength Indicator at the 6381 location, check the command signal amplitude. Signal strength must be 100mV minimum. If there is less than 100mV of signal present, it may be necessary to couple both legs of the 120/240 volt power service at the entrance panel using Cat. No. 6299 Signal Bridge.

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- c. If the Yellow ERROR CONDITION indicator is lit, there is electrical "noise" present on the AC line which is interfering with proper module operation. The source of the noise must be identified and either filtered out or eliminated (See Technical Manual).

Wiring Diagram



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LIMITED TWO 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, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591**. 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 warranties of any kind, 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 merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use 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, tort or otherwise.

For Technical Assistance Call: 1-800-824-3005



Single Pole Switch Module

Cat. No. 6381

Rated: 500W-120VAC, 60Hz
Incandescent Only

Installation Instructions

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



DESCRIPTION:

The Leviton Single Pole Switch Module, Cat. No. 6381, is designed for use with DHC Residential Powerline Carrier Components. Cat. No. 6381 functions as a remote switching and dimming device which responds to coded DIM/BRIGHT, ON/OFF, and ALL LIGHTS ON/OFF commands.

Cat. No. 6381 can be operated manually as a standard type wall or dimmer switch. The module may be set to any of 256 address codes, to be selected at the time of installation. The desired address is set by removing the switch plate and selecting letter and number codes with a small blade screwdriver. The module is equipped with six-inch leads and installs in a standard wall box. It is suitable for incandescent lighting loads only.

SPECIFICATIONS:

Rating: 120VAC, 60Hz Incandescent Only
500W max., 60W min.

Minimum Voltage: 112V

Maximum Voltage: 138V

Maximum number of modules per circuit: 10

Input Signal: 121kHz carrier signal superimposed on a
120VAC power line

Minimum Signal Strength: 100mV

Ambient Operating Temperature: Min. 0°F (-18°C) to
Max. 104°F (40°C)

Ambient Humidity: 0 to 90% RH, non-condensing

2.

SAFETY PRECAUTIONS:

WARNING: To avoid overheating and possible damage to this device and other equipment **DO NOT** install to control a receptacle, fluorescent lighting, a motor- or a transformer-operated appliance.

WARNING: To insure proper operation, there must be power in the circuit. In order to locate it safely you must use an approved test lamp with a ground wire for that one side of the lamp. If there are no existing grounds in the wall boxes, find and use a structured ground, such as a cold water pipe. If a power interruption should occur while the device is ON, the light load will remain OFF when power is restored.

NOTE: Save this instruction sheet. It contains important technical data, along with testing and trouble shooting information, which will be useful after installation is complete.

APPLICATIONS:

DHC devices will not switch lighting that is used with low-voltage or high frequency power supply transformers, nor high pressure discharge lamps (HID lighting). This includes mercury-vapor, sodium vapor and metal halide lamps.

DHC Components Can Control

- Low pressure discharge lamps (fluorescent) (ON/OFF only) - use Cat. Nos. 6291 and 6293.
- 120 Volt quartz lamps can be dimmed or brightened - use Cat. Nos. 6381 and 6383.

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INTRODUCTION:

Leviton Residential Powerline Carrier Components are designed to provide the greatest signal integrity and noise immunity possible. However, in some environments intense electrical noise can cause interference with the signal. Leviton has developed hardware and techniques for overcoming this interference when properly applied.

It is the responsibility of the specifier/installer to test for signal strength and the presence of noise using Leviton test equipment, Cat. Nos. 6385 (Signal Test Transmitter) and 6386 (Signal Strength Indicator), and to properly apply signal coupling and noise reduction equipment according to the guidelines provided in the Decora Home Controls (DHC) Technical Manual and the DHC Troubleshooting Guide.

Leviton specifically denies any warranty of performance, stated or implied, where electrical noise interference exists at the time of installation, or subsequent to installation by the addition of noise-producing devices or equipment, or where these components have been installed for non-residential applications.

DHC Components are for residential use only. Installation for any other application voids any warranty, stated or implied.

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- Low voltage lighting can be controlled provided the lighting system operates with a 60Hz transformer - (ON/OFF only) use Cat. Nos. 6291, 6293, 6227 and 6280, (DIMMING) use Cat. Nos. 6381-U and 6290.

Local Operation

NOTE: Light is preset to last programmed dimming level.

1. Tap the switch plate, light fades to preset level.
2. Press and hold the switch plate, light will cycle to full bright or full dim and stop. Release switch plate and press and hold switch, light will toggle direction.
3. Tap the switch plate and light fades OFF.
4. Pressing the switch plate while fading will cause the dimmer to stop at the current level.

NOTE: Below the switch plate is a small slide switch. When servicing a controlled fixture move this slide switch to the LEFT (OFF position). This will cut the power to the fixture. After servicing is complete move the slide switch back to the RIGHT (ON position) to restore power for normal operation.

Read all instructions thoroughly. If you are not sure about any part of these instructions, consult a qualified electrician.

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