

LEVITON UPB™ WALL SWITCH AND AUXILIARY SWITCH
Cat. No. 35A00-1
Installation Instructions and User's Guide



PK-93406-10-00-5A02243
(35100-1)

INSTALLATION AND OPERATING INSTRUCTIONS

ENGLISH

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!
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- SAVE THESE INSTRUCTIONS.

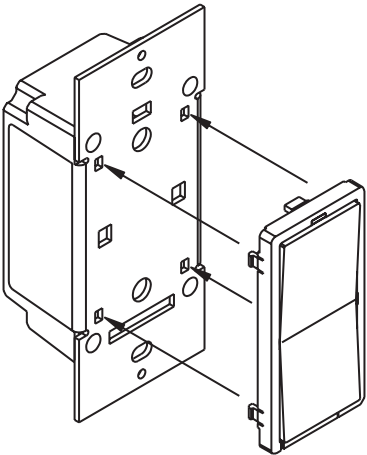
WARNINGS AND CAUTIONS

- To reduce the risk of overheating and possible damage to other equipment, when configured as dimming-capable, DO NOT install to control a receptacle, a motor-operated appliance, or a transformer-supplied appliance.
- Use this device with **copper or copper-clad wire only**.
- For indoor use only.

Changing Switch Color

The color of the Leviton UPB™ Wall Switch and Auxiliary Switch may be changed to complement the interior décor. The Leviton UPB™ Wall Switch and Auxiliary Switch is supplied with a white switch plate. Additional colors are available; contact your Leviton distributor for more information. When changing the switch plate, make sure that the switch is disconnected from all power, and proceed as follows:

Figure 3 – Changing Switch Color



The switch plate attaches to the Leviton UPB™ Wall Switch and Auxiliary Switch with two latches on the right and two on the left. Using a small-bladed screwdriver, gently depress the upper and lower latch on one side while lifting up on the plate. Once the latches are released on one side, remove the switch plate from the other side.

1. Align the latches of the new switch plate to the openings on the mounting plate and gently snap into place.

INSTALLATION INSTRUCTIONS

The Leviton UPB™ Wall Switch is wired directly to the lighting circuit and can be controlled by adding one or more optional Leviton Auxiliary Switches producing multi-way circuits. Multi-way circuits make it possible for a group of switches to control the same light or set of lights. This section will illustrate how to make the connections.

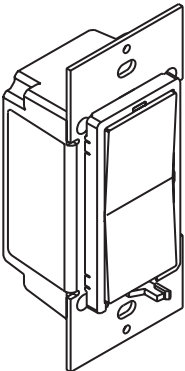
NOTES:

1. Refer to **Figures 1 and 2** to determine the wire colors for each connection.
2. All Leviton UPB™ Wall Switches require a neutral (white) connection.
3. The Line (black) wire must be accessible for the installation of all Leviton Auxiliary Switches. This wire may be connected to either phase of the 120/240V supply. The blue and/or gray wire on the Leviton Auxiliary Switch can be connected to either earth ground or neutral. The blue and/or gray wire is only used to light the LED on the switch. This LED only indicates that power is applied and serves as a night-light. Connect the blue wire only to light the LED blue. Connect the gray wire only to light the LED red. Connect both the blue wire and the gray wire to light the LED magenta.

Air-Gap Switch Lever

The Leviton UPB™ Wall Switch has an air-gap switch lever that will remove all power from the load for safe switch installation and light bulb replacement. To activate the air-gap switch, using your fingernail, pry open the lever at the groove (**Figure 1**). Swing the lever fully open so that it is perpendicular to the bottom rim (**Figure 4**). After servicing, push the lever fully closed so that it is parallel to the bottom rim. The lever must be pushed fully closed for normal operation.

Figure 4 – Air-Gap Switch Lever



For the following Models:

35A00-1 Leviton 600W Dimmer Switch, 35A00-1CFL 600W CFL/LED Dimmer, 35A00-3 Leviton 600W Non-Dimming Switch (collectively referred to as Leviton UPB™ Wall Switch, in this document), and 37A00-1 Leviton Auxiliary Switch

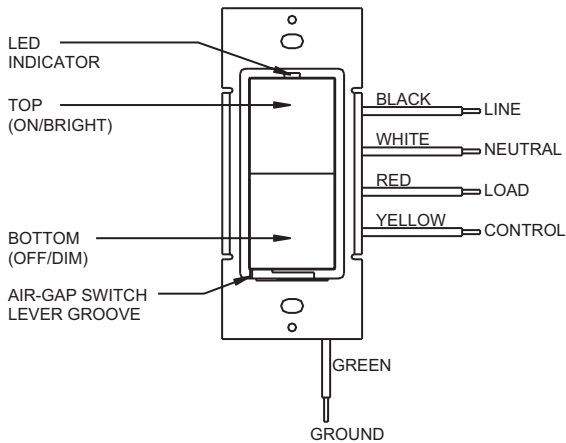
NOTE: All Leviton UPB™ Wall Switches require a neutral (white) connection wire.

Leviton UPB™ Wall Switch Overview

The Leviton UPB™ Wall Switch (**Figure 1**) allows for local control of lighting by using the rocker switch. It also incorporates the UPB™ two-way powerline communication technology that gives it the ability to be remotely controlled by UPB™ compatible controllers. The Leviton UPB™ Wall Switch is also capable of transmitting UPB™ messages (including current light level) when the rocker switch is turned on, turned off, brightened, or dimmed.

Each switch can be configured to custom fit an individual's lifestyle and desires. The Leviton Dimmer Switch is capable of storing up to 16 preset light levels and fade rates to create powerful lighting scenes. The Leviton Non-Dimming Switch is used to control such loads as fluorescent lights and ceiling fans.

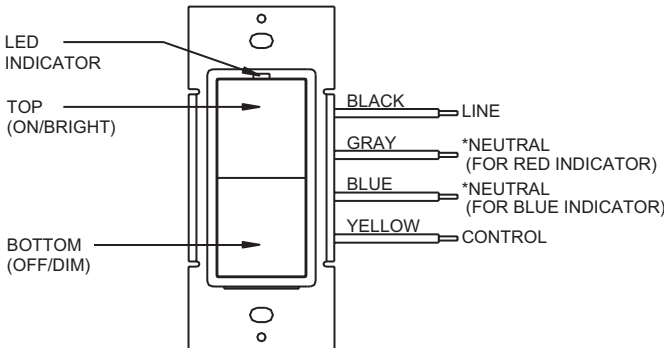
Figure 1 - Leviton UPB™ Wall Switch



Leviton Auxiliary Switch Overview

The 37A00-1 Leviton Auxiliary Switch (Figure 2) is an optional companion device used with the Leviton UPB™ Wall Switch for multi-way circuits. The Leviton Auxiliary Switch has a rocker switch that controls the lighting load in the exact same manner as the rocker switch on the Leviton UPB™ Wall Switch.

Figure 2 – Leviton Auxiliary Switch



Installation Procedure

1. Be sure that all power to the load has been disconnected by turning off the circuit breaker.
2. If applicable, remove the faceplate from the existing wall switch, remove the existing wall switch from the wall box, and disconnect the wires from the existing wall switch. Identify the "Line", "Neutral", "Load" and "Traveler" (if applicable) wires.
3. Be sure that the air-gap switch lever on the Leviton UPB™ Wall Switch is fully open.
4. Remove 3/4" of insulation from each of the wires on the Leviton UPB™ Wall Switch. Install the Leviton UPB™ Wall Switch by connecting wires per wiring configuration shown in **Figure 5**.
5. Install any optional Leviton Auxiliary Switch per wiring configuration shown in **Figure 5**.
6. After all connections have been made, be certain that all wire connectors are firmly attached and there is no exposed copper.
7. Gently place the wires and Leviton UPB™ Wall Switch into the wall box with the LED at the top of device. Using the supplied screws, attach the Leviton UPB™ Wall Switch to the wall box.
8. Before installing the faceplate, restore power to the circuit, and then fully close the air-gap switch lever.
9. After testing the Leviton UPB™ Wall Switch and Auxiliary Switch for proper local operation (**see Table 2 and Table 3**), install a Decora® faceplate over each switch.

Leviton UPB™ Wall Switch De-Rating

In two-gang installations, there is no need to de-rate the 35A00-1, 35A00-1CFL, or 35A00-3. In three-gang installations, each switch must be de-rated from 600W to 500W.

Table 1 – Leviton Wall Switch De-Rating

Model	Device Maximum Load	Next to One Dimmer	Next to Two Dimmers
35A00-1	600W	600W	500W
35A00-1CFL	600W	600W	500W
35A00-3	600W	600W	500W

Leviton DIMMER SWITCH OPERATION

The Leviton Dimmer Switch has many configurable items that can be set using the UPB™ UPStart configuration software. The following describes the operation of the Leviton Dimmer Switch in its factory default configuration.

Local Rocker Switch Operation

The Leviton Dimmer Switch has a rocker switch that can be used to control the lighting load as follows.

Table 2 - Leviton UPB™ Dimmer Switch Local Operation

Rocker Event	Top Rocker	Bottom Rocker
Single-Tap	Brightens the light to 100% (on) at default fade rate and restarts auto shut-off timer (if applicable).	Fade the light to 0% (off) at default fade rate.
Double-Tap	Snaps the light to 100% (on) and overrides auto shut-off.	Snaps the light to 0% (off).
Hold	Starts fading (brightening) the light towards 100% at default fade rate and restarts auto shut-off timer (if applicable).	Starts fading (dimming) the light towards 0% at default fade rate.
Release	Stops brightening the light and restarts auto shut-off timer (if applicable).	Stops dimming the light.

Leviton NON-DIMMING SWITCH OPERATION

The Leviton Non-Dimming Switch has many configurable items that can be set using the UPB™ UPStart configuration software. The following describes the operation of the Leviton Non-Dimming Switch in its factory default configuration.

Local Rocker Switch Operation

The Leviton Non-Dimming Switch has a rocker switch that can be used to control the load as follows.

Table 3 – Leviton Non-Dimming Switch Local Operation

Rocker Event	Top Rocker	Bottom Rocker
Single-Tap	Turns the load on and starts auto shut-off timer (if applicable).	Turns the load off.

LED Indicator

The Leviton UPB™ Wall Switch comes equipped with a multi-color LED indicator that is normally lit to blue when the load is off. The LED will turn off when the load is turned on or set to any level above 0%. The LED will flash magenta while the auto shut-off timer is running (if the configured LED option is always off, the LED will remain off during the timeout period).

If used, the LED in the Leviton Auxiliary Switch is always lit.

Leviton AUXILIARY SWITCH OPERATION

The Leviton UPB™ Wall Switch can be connected to one or more Leviton Auxiliary Switches producing multi-way lighting circuits. Each Leviton Auxiliary Switch has a rocker switch that controls the lighting load in the exact same manner as the rocker switch on the connected Leviton UPB™ Wall Switch, as previously described. When connected, the LED remains continually on at all times while power is applied.

Setup Mode

To configure the Leviton UPB™ Wall Switch using an Leviton controller or a PC running the UPB™ UPStart configuration software, it must be put into Setup Mode as follows:

Table 4 – Leviton Wall Switch Setup

Step	Operation
1	Tap the rocker switch quickly 5 times
2	The Leviton UPB™ Wall Switch will flash the lighting load one time and blink its LED blue to indicate that it is in Setup Mode. Note: the switch will automatically exit Setup mode after 5 minutes.

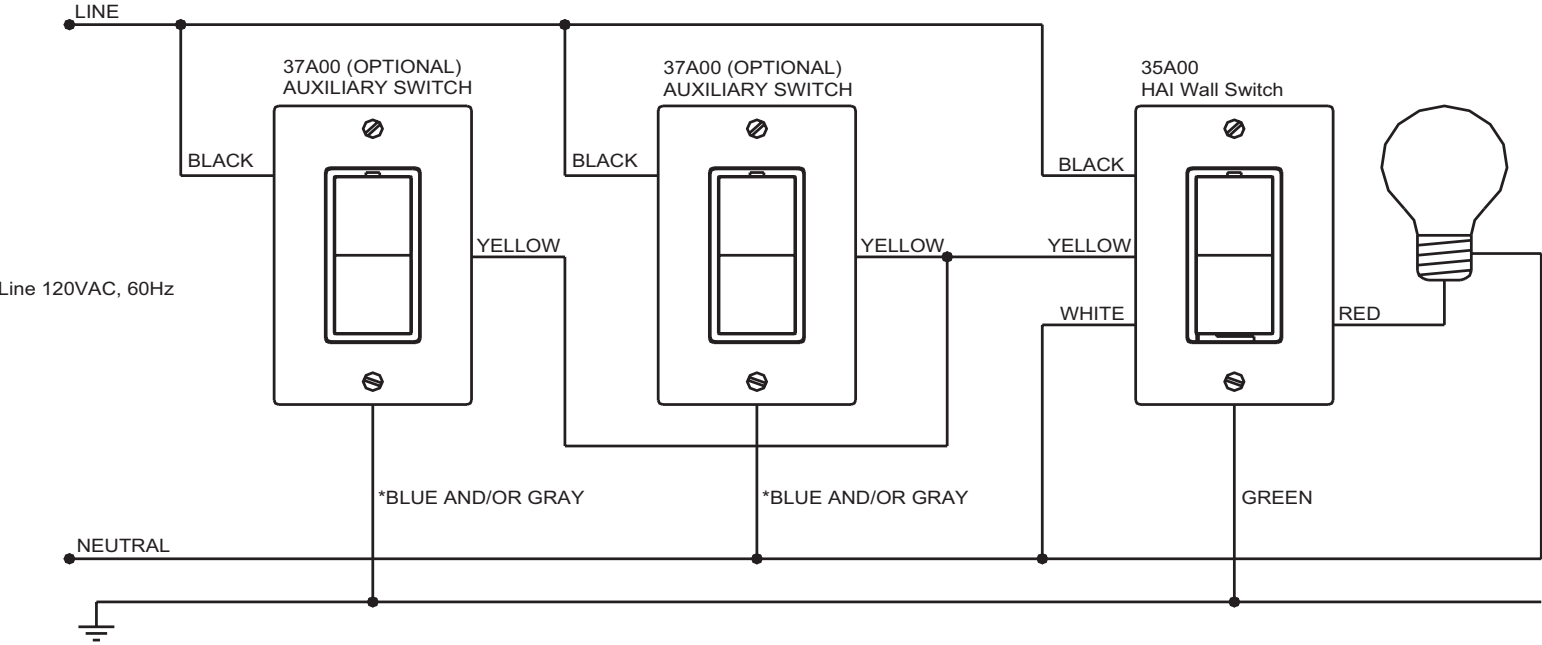
NOTE:

Setup mode and blink mode take precedence over auto shut-off. If the auto shut-off timer is running, and then either setup mode or blink mode occurs, the auto shut-off timer will be reset and disabled until setup or blink mode expire.

Reset to Factory Default Settings

To reset the Leviton UPB™ Wall Switch to factory default settings:

Step	Operation
1	On the Leviton UPB™ Wall Switch that you want to reset to factory default, tap the rocker switch quickly 5 times.
2	The Leviton UPB™ Wall Switch will flash the lighting load one time and blink its LED blue to indicate that it is ready to be reset.
3	Tap the rocker switch quickly 10 times to reset to factory default setting.
4	The Leviton UPB™ Wall Switch will flash the lighting load one time and blink its LED red to indicate that it has been reset.
5	Tap the rocker switch once more to stop the LED from blinking.



*CONNECTING THE BLUE AND/OR GRAY WIRE TO NEUTRAL SETS THE COLOR OF THE LED INDICATOR. CONNECT BLUE FOR BLUE INDICATOR, GRAY FOR RED INDICATOR, OR BOTH FOR MAGENTA INDICATOR. BLUE AND/OR GRAY WIRE MAY BE CONNECTED TO NEUTRAL OR EARTH GROUND. NEUTRAL IS RECOMMENDED.

SPECIFICATIONS

Model Number	35A00-1	35A00-1CFL	35A00-3
Incandescent Loads Dimming	Yes	Yes	Yes (configurable)
Inductive Loads Dimming	Yes	Yes	Yes (configurable)
Florescent Loads Non-Dimming	Yes (configurable)	Yes (configurable)	Yes
Power Maximum Dimming	600W / 600VA	600W / 600VA	600W / 600VA
Current Maximum Non-Dimming	5A	5A	5A
Connections	18 GA	18 GA	18 GA
LED Indicator	Yes	Yes	Yes
Dimensions	4.1 x 1.75 x 1.45	4.1 x 1.75 x 1.45	4.1 x 1.75 x 1.45
Weight	0.25 lb.	0.25 lb.	0.25 lb.
Mounting	Standard J Box	Standard J Box	Standard J Box
Input Power	120 ± 12 VAC	120 ± 12 VAC	120 ± 12 VAC
Input Frequency	60 ± 3 Hz	60 ± 3 Hz	60 ± 3 Hz
Operating Temperature	-40 °F to 104 °F	-40 °F to 104 °F	-40 °F to 104 °F

NOTE: It is normal for this switch to make a slight buzzing sound during operation. It is also normal for the switch and wall plate to feel warm to the touch.

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Refer to the following Table for specific manufactures and model numbers of dimmable CFL and LED bulbs approved for use with these dimmers:

CFL / LED	Lamp Manufacturer	Lamp Model	Lamp Wattage (W)
CFL	EcoSmart	2R3015DIM	15
CFL	EcoSmart	ES5CCDF052	5
CFL	EcoSmart	ESSM10123	23
CFL	EcoSmart	ESSR315DIM35K	15
CFL	EcoSmart	ESSR315DIM50K	15
CFL	Feit	BPESL15T/DM	15
CFL	Feit	BPESL23T/DIM	23
CFL	GE / Energy Smart	FLE15/2/DV/R30	15
CFL	GE / Energy Smart	FLE15HT3/2/DV/SW	15
CFL	GE / Energy Smart	FLE26/2/DV/R40	26
CFL	GE / Energy Smart	FLE26HT3/2/DV	26
CFL	Litetrionics	16AE5L092725	27
CFL	Litetrionics	18185K085141	5
CFL	Litetrionics	18185K088141	8
CFL	Litetrionics	18505A10111	11
CFL	Litetrionics	18BR5E09152	15
CFL	Litetrionics / EarthMate	E05129LW	5
CFL	Litetrionics / EarthMate	E2752AJLW	27
CFL	Neptun	61920-ADIM	20
CFL	Neptun / EarthTronics	CF24SW1BDIM	24
CFL	Phillips	EL/A PAR38	20
CFL	Phillips	EL/A R30 DIM	16
CFL	Phillips	EL/A R40 DIM	20
CFL	Sylvania	CF5EL/A15/827/DIM/BL	5
CFL	Sylvania	CF5EL/B10/827/C/ADP/DIM/BL	5
CFL	Sylvania	CF14EL/R20/DIM	14
CFL	Sylvania	CF14EL/TWIST/DIM	14
CFL	Sylvania	CF19EL/BR40/DIM	19
CFL	Sylvania	CF24EL/TWIST/827/DIM/RP	24
CFL	TCP	2R2014DIM	14
CFL	TCP	40123	23
CFL	TCP	4R3016TD	16
CFL	TCP	CCA05	5
CFL	ULA	SDR23W2P-R30 DIM	23
LED	Cooper Lighting - HALO	ML706830	14
LED	Cree	CR6-0210E	12
LED	Cree	CR6-0323E	12
LED	EcoSmart	ECO-GU24-575L-YOW	12
LED	EcoSmart	G2510003-005	8
LED	EcoSmart	R2010010-013	8
LED	Lemnis Lighting	Pharox 300	6
LED	Phillips	12E26A60	12.5
LED	Phillips	3E12B1 1-E	3
LED	Phillips	6E26R20	6
LED	Phillips	7E26PAR20-E	7
LED	Phillips	8E26A60	8
LED	Sylvania	LED8PAR20/DIM/827/FL36	8
LED	Sylvania	LED8PAR20/DIM/827/NFL25	8
LED	Sylvania	LED8PAR20/DIM/830/NFL25/HVP	8
LED	Sylvania	LED10PAR30/DIM/SG830/WSP15	10
LED	Sylvania	LED11PAR30/DIM/SG/830/SP10	11
LED	TCP	LDA153WH30K	3
LED	Toshiba	218-50053	7.8
LED	Utilitech	0171150	2
LED	Utilitech	0338802	7.5
LED	Utilitech	0352280	3.5

CFL = Compact Fluorescent Lamp
LED = Self Ballasted, Light-Emitting Diode

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**.

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LEVITON LIMITED WARRANTY	
Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that products manufactured by Leviton under the Leviton brand name ("Product") will be free from defects in material and workmanship for the time periods indicated below, whichever is shorter: • OmniPro II and Lumina Pro: three (3) years from installation or 42 months from manufacture date. • OmniLT, Omni IIe, and Lumina: two (2) years from installation or 30 months from manufacture date. • Thermostats, Accessories: two (2) years from installation or 30 months from manufacture date. • Batteries: Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. Note: Primary (non-rechargeable) batteries shipped in products are not warranted. Products with Windows® Operating Systems: During the warranty period, Leviton will restore corrupted operating systems to factory default at no charge, provided that the product has been used as originally intended. Installation of non-Leviton software or modification of the operating system voids this warranty. Leviton's obligation under this Limited Warranty is limited to the repair or replacement, at Leviton's option, of Product that fails due to defect in material or workmanship. Leviton reserves the right to replace product under this Limited Warranty with new or remanufactured product. Leviton will not be responsible for labor costs of removal or reinstallation of Product. The repaired or replaced product is then warranted under the terms of this Limited Warranty for the remainder of the Limited Warranty time period or ninety (90) days, whichever is longer. This Limited Warranty does not cover PC-based software products. Leviton is not responsible for conditions or applications beyond Leviton's control. Leviton is not responsible for issues related to improper installation, including failure to follow written installation and operation instructions, normal wear and tear, catastrophe, fault or negligence of the user or other problems external to the Product. To view complete warranty and instructions for returning product, please visit us at www.leviton.com .	