

Provides ON/OFF and dimming control for:

- Incandescent lighting
- Magnetic low-voltage lighting
- Halogen lighting

IMPORTANT!
Read This Before Installing!

- This incandescent dimmer **cannot be used to dim FLUORESCENT, ELECTRONIC LOW-VOLTAGE or METAL HALIDE lighting**, unless specifically allowed by the lighting manufacturer. **Please see instructions** to configure this product for ON/OFF operation with these types of lighting.
- **DO NOT WIRE HOT!** Permanent damage may result. Improper installation voids the warranty.

FUNCTION

The SW-Series UPB Wall Dimmer Switches, models SW-1 and SW-3, remotely control the operation of new and existing lighting fixtures, lamps and other electrical devices. Each unit has one rocker switch that directly controls a load up to 900W (see Rating Table in this document). Incandescent lamps can be turned ON or OFF, and can also be dimmed and brightened. The SW-1/3 can be configured to turn other types of non-dimmable loads ON and OFF. The SW-1 switches also act as a transmitter that can communicate with other UPB devices, either individually or collectively for lighting scenes. The SW-3 CANNOT be used as a standalone transmitter.

IMPORTANT SAFETY INSTRUCTIONS


When using electrical products, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. REMOVE YELLOW "INSTALL WITH CARE" LABEL BEFORE INSTALLING.
3. Installation should be performed by a qualified electrician.
4. Keep away from water. If product comes into contact with water or other liquid, unplug immediately.
5. Never use products that have been dropped or damaged.
6. Do not use this product outdoors.
7. Do not use this product for other than its intended use.
8. Do not connect multiple lamps that, when combined, exceed the maximum load rating of the product, de-rated for multi-gang boxes (see table in this document).
9. To avoid the risk of overheating and possible damage to other equipment, do not install to control a receptacle.
10. Do not cover the product with cloth, paper or any material when in use.
11. SAVE THESE INSTRUCTIONS.

INSTALLATION

SW-Series UPB Wall Dimmer Switches (SW-1, SW-3) are designed to be installed in a junction box that is wired to readily accessible over-current protection device in the building wiring per NEC and CEC electrical codes.

CAUTION: The default switch configuration operates as a dimmer for incandescent lamps. It will also dim magnetic low-voltage and halogen lamps. To control fluorescent, electronic low-voltage or metal halide lamps, or motor-operated appliances, transformer-supplied appliances or fans, the switch must be reconfigured for ON/OFF operation (no dimming) prior to use. Refer to the section on Configuration.

 **CAUTION:** DO NOT WIRE THIS DEVICE WITH POWER CONNECTED. Injury or permanent damage to the device may result. Improper installation voids the product warranty.

To install the SW-1 wall switch:

1. Locate the existing wall switch for the lighting to be controlled. Note that the lamp rating (or the combined rating of multiple connected lamps) must not exceed the values shown in the following table:

		Number of Load Dimmers in J-box		
		1	2	3+
Number of J-box Gangs	1	600W	--	--
	2	800W	500W	--
	3+	900W	700W	500W

2. Disconnect power at the circuit breaker. (NOTE: You MUST do this. Wiring this switch "Hot" will damage the switch and void its warranty.)
3. Remove the existing wall switch hardware. Disconnect the wires to the switch.
4. Remove the yellow "INSTALL WITH CARE" label, if present.
5. Using a wire nut, connect the black (Line) wire of the switch to the black (Line) power wire.
6. Using a wire nut, connect all white (Neutral) wires together.
7. Using a wire nut, connect the brown (load output) wire of the SW-1 to the black wire of the device to be controlled.
8. IF THIS IS TO BE A 3- OR MORE-WAY INSTALLATION, MAKE SURE YOU INSTALL AN SW-3 AT ALL 3-WAY LOCATIONS. CONNECTING THIS SWITCH TO A MANUAL 3-WAY SWITCH WILL DAMAGE THE SWITCH AND VOID THE WARRANTY. Use a wire nut to connect the brown/white wire to the traveler wire that extends to the remote switch. If there is a second remote and a second traveler, use a wire nut to connect the red/white traveler to the wire that extends to the second remote switch location. See below for remote switch installation.
9. Cap off any unused wires to prevent shorting.
10. Mount the switch inside the J-box using captive screws. DO NOT OVER TIGHTEN THE SCREWS.
11. Reconnect power at the circuit breaker.

To install a SW-3 remote switch for 3- or more-way control:

1. Locate the remote switch that is connected to the master wall switch.
2. Disconnect power at the circuit breaker. (NOTE: You MUST do this. Wiring this switch "Hot" will damage the switch and void its warranty.)
3. Remove the existing wall switch hardware. Disconnect the wires to the existing 3-way switch.
4. Using a wire nut, connect the white (Neutral) wire of the SW-3 to the white (Neutral) power wire.
5. Using a wire nut, connect the brown/white wire of the SW-3 to the traveler wire that extends to the master switch.
6. To use the second switch of a dual remote configuration, connect the red/white wire to the traveler wire that extends to the second master switch.
7. OPTIONAL: Using a wire nut, connect the brown wire (black on some models) of the SW-3 to the switched load wire or to the black (Line) power wire. This powers the LED indicator. If connected to the switched load wire, the LED will illuminate when the load is on. If connected to line power, the LED will always be on.
8. Cap off any unused wires to prevent shorting.
9. Mount the switch inside the J-box using existing screws. DO NOT OVER TIGHTEN THE SCREWS.

10. Reconnect power at the circuit breaker.

CONFIGURATION

Configuration requires UPB setup/configuration software (e.g., UPStart or a Web Mountain NetPlace server) and a model SPIM-01 Computer Interface. Before using UPStart configuration software, be sure to download the latest version from the Web Mountain website.

The SW-1 default settings assume an SW-11 (single rocker) faceplate. **The device will not operate correctly with any faceplates other than the SW-11 (single rocker) or SW-21 (double tall rockers).** UPB settings must be properly configured. When using UPStart, this is done by selecting the rocker faceplate "variant" when adding the device to the network.

SETUP MODE

When configuring a UPB system, it is often necessary to place the SW-1 in SETUP mode in order to initiate self-identification on the powerline. To place the switch in SETUP mode, tap any rocker/pushbutton exactly 5 times consecutively. The LED indicator will continuously blink GREEN when the unit is in SETUP mode. To exit SETUP mode and enter NORMAL mode tap the rocker/pushbutton exactly 2 times.

OPERATION

Unless otherwise configured, rocker actuator behaves as follows:

Rocker Event	Dimmer Action (Top Rocker)	Dimmer Action (Bottom Rocker)
Single-Tap	Brighten to 100% at Default Rate.	Fade to 0% at Default Rate.
Double-Tap	Snap to 100%	Snap to 0%
Hold	Start brightening to 100% at Default Rate.	Start fading to 0% at Default Rate.
Release	Stop brightening and hold current level	Stop fading and hold current level

On multi-rocker units, the left rocker provides ON/OFF and dimming control functions for the light fixture (load). The additional rocker(s) act as transmitters to other UPB devices.

1. By linking a transmitting switch to a UPB Receptacle, Appliance Module or Relay Module, the connected load can be turned ON by tapping the top of the rocker and OFF by tapping the bottom of the rocker.
2. By linking a transmitting switch to a UPB Lamp or Fixture Dimmer Module, the connected load can be controlled according to the table above.

POWER DISCONNECTION

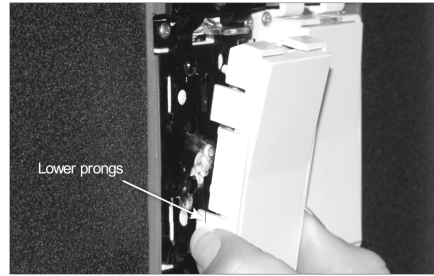
To physically disconnect power to the connected lamp fixture, depress the top of the rocker switch, grab the underside of the clear plastic indicator tab with your fingernail, gently pull the tab out about 0.05", then push the tab down to lock it in place. The indicator will extinguish to show that power is now disconnected. To reconnect power, gently push up on clear plastic indicator tab until it snaps back into its normal position.

UPB FACTORY DEFAULT SETTINGS

To restore the following default settings, place the SW-1 in SETUP mode and tap any actuator exactly 10 times. The indicator will continuously blink RED. Tap the actuator twice again to exit SETUP mode.

Network Name	"Network 1"
Room Name	"New Room Name"
Device Name	"New SA US1/US2"
Unit ID	22
Network ID	255
Network Password	1234
Transmit Link	1
Receive Links	1 (ON), 2 (OFF)

- Next, press the two lower prongs inward, and pull rocker faceplate assembly away and slightly downward from the switch body, moving it away from the clear plastic light pipe (LED).



- Once the old rocker faceplate is removed, follow steps 1-4 above to install a new rocker faceplate assembly.

INSTALLING/CHANGING ROCKER FACEPLATES

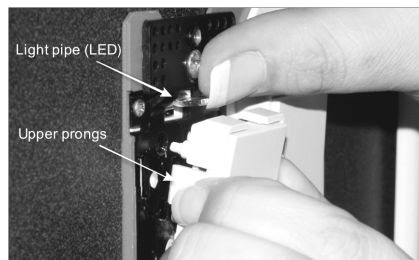
Web Mountain Dimming Wall Switches are designed with removable rocker faceplates, making it possible to upgrade the functionality and/or change color in the field, without disconnecting the switch from the wall.

To install a rocker faceplate assembly on the Web Mountain switch body do the following:

- Hold the rocker faceplate assembly so that the clear plastic light pipe (LED) on the switch body fits nicely into the recess on the top of the rocker.
- Align the four prongs on the rocker assembly with the four slots on the switch body.
- Press the rocker faceplate assembly into the switch body. Ensure that all four prongs are fully inserted and latched into the switch body. If all four prongs are not fully latched, the rocker plungers may not function properly.
- Exercise rocker actuator several times in both directions to ensure proper seating and operation.

To remove the rocker faceplate assembly to upgrade functionality or change color, do the following:

- Remove the wall plate from the switch using a standard straight slot screwdriver.
- Using the thumb and index finger, press the top two prongs of the rocker faceplate assembly inward so that they are unlatched from the switch body AND at the same time, using your thumbnail, slightly lift up the clear plastic light pipe (LED). This will release the top of the rocker assembly.



TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
Master switch is wired properly but has no power.	Air gap power disconnect may be disengaged (pulled out).	Push light pipe (indicator) back into position flush with faceplate assembly housing.
Master switch actuator doesn't turn load ON and/or OFF.	3-way remote switch actuator may be binding, causing the switch to be stuck ON or OFF.	Loosen mounting screws on remote switch and/or wallplate to relieve pressure on housing.
	Actuator faceplate may not be seated properly on the switch body.	Exercise actuator several times to ensure proper seating and operation.
Rocker sticks or doesn't actuate properly when pressed.	Mounting screws may be too tight or j-box may be deformed, causing the switch body to warp.	Loosen mounting screws to relieve pressure on the switch housing.
	Actuator springs may have backed out of their correct location during shipping.	Reseat the springs: place the faceplate face-up on a flat surface, then press down on both sides of each rocker at the same time.
Switch runs hot when dimming the load.	Switch is overloaded.	Reduce the power load by removing bulbs from the circuit.

