Screw-In Dimmer

Model LS-318

1. INTRODUCTION

Thank you for your purchase of a SkylinkHome™ Screw-In Dimmer, Model LS-318. This receiver module allows you to wirelessly turn on and off, dim and brighten connected light with a SkylinkHome™ transmitters.

The Screw-In Dimmer LS-318 can communicate with up to 8 transmitters, so user has the option to add more transmitters to the system, such as more remote controls, or motion sensors etc.

All wireless signal communications within the SkylinkHome™ System are based on rolling code technology to ensure highest security is used.

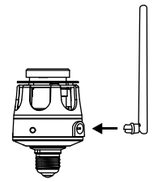
The following items are included in this package:

- Screw-In Dimmer LS-318
- Antenna
- User's Instructions

2. SETUP

There is no wiring involved in setting up the Screw-In Dimmer LS-318.

Insert the antenna to the Screw-In Dimmer, as shown.

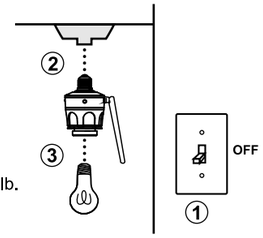


CAUTION ⚠

1. Turn off the light switch of the empty socket where you plan to install the Screw-In Dimmer.

2. Screw the Screw-In Dimmer to an empty socket.

3. Screw a light bulb to the fixture end of the Screw-In Dimmer.



Note: The antenna should be placed away from the light bulb so it is away from the heat generated by the light bulb.

The Screw-In Dimmer is designed to operate incandescent light or dimmable compact fluorescent light with a maximum load of 200W at 120VAC. Light bulbs must be dimmable in order to achieve dimming function.

3. PROGRAMMING TRANSMITTERS

In order to operate the Screw-In Dimmer remotely with a transmitter or sensor, it must be programmed to the Screw-In Dimmer. Each module can be operated by up to 8 different transmitters (or 8 different command signals).

There are 3 operating modes with the Screw-In Dimmer:

1) Regular Mode - When a valid signal is received, it will turn on or off a light or change the brightness of a light.

2) Flashing Alert Mode - When a valid signal is received, the light will flash for a specific period of time, which is the time defined in the timer duration. This works as an alert indication.

3) Countdown Timer Mode - When a valid signal is received, the light will be on for a specific period of time, from 1 minute, 5 minutes, 15 minutes, 30 minutes, and 60 minutes, then turn off.

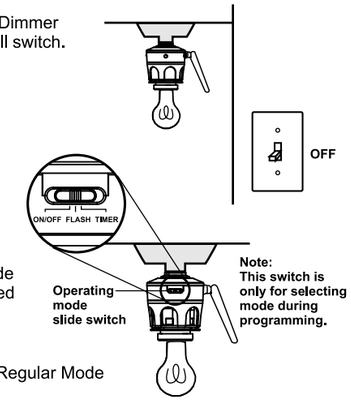
You can program multiple transmitters / sensors to the module and different transmitter / sensor can activate a different mode.

To program a transmitter / Sensor into the Screw-In Dimmer, follow the instructions below.

Before you program a transmitter to the Screw-In Dimmer, decide the operating mode for this transmitter (Regular Mode, Flashing Alert Mode or Countdown Timer Mode).

3. PROGRAMMING TRANSMITTERS (TC SERIES)(CONT)

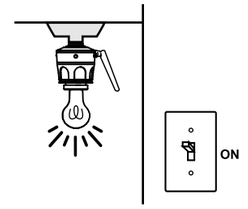
1. Switch off the Screw-In Dimmer with light bulb by the wall switch.



2. Place the operating mode slide switch at the desired position, for example: On/ Off.

Note: ON/OFF represents Regular Mode

3. Power on the Screw-In Dimmer by the wall switch, light bulb will be on under factory default.



4. The red LED indication shows the operation mode you have selected:

Operating Mode	LED Indication
Regular	Flash quickly
Flashing Alert	Flash slowly
Countdown Timer	Steadily On

5. Ensure the LED indication shows the operation mode you have selected.

6. Transmit a "Learn" code from the transmitter. Refer to the manual of the transmitter to transmit this "Learn" code.

7. Once the transmitter is programmed, the red LED on the Screw-In Dimmer flashes quickly then stops flashing. You have successfully programmed the transmitter.

Note: You must complete the programming sequence within the 15-second interval after you power on the Screw-in Dimmer, otherwise, the module will quit from programming mode and you need to start again from step 3 if the red LED is off.

You may follow the same instructions to program additional transmitters or sensors to operate the receiver module.

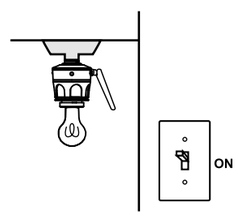
4. SET TIMER DURATION

This section is for transmitters that are programmed for Flashing Alert Mode and Countdown Timer Mode.

The timer for both Flashing Alert Mode and Countdown Timer Mode can be set to the following duration, meaning the light will stay on for the following time: 1 minute, 5 minutes, 15 minutes, 30 minutes, or 60 minutes. Only one timer interval can be set. To set the timer duration, follow the instructions below.

1. Screw-In Dimmer should be powered up.

2. If the light bulb is on after power-up, turn it off with a programmed TC transmitter.

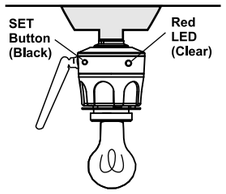


4. SET TIMER DURATION (CONT)

3. Press and hold the SET button for 3 seconds, the red LED will flash once. The number of flashes indicates the timer duration:

CAUTION ⚠
DO NOT TOUCH ANY METAL PARTS WHILE PRESSING THE SET BUTTON. MAKING CONTACT WITH INNER METAL PARTS MAY RESULT IN ELECTRICAL SHOCK CAUSING SEVERE OR FATAL INJURY.

Number of Flashes	Timer Duration
1	1 min.
2	5 min.
3	15 min.
4	30 min.
5	60 min.



4. Continue to hold the SET button until it reaches the desired setting. The status will change every 6 seconds, i.e. hold the SET button for another 6 seconds, you will see the number of flashes changes from 1 to 2, 2 to 3, etc.

Note: Once the number of flashes reaches 5, it will stay at this setting. If you would like to go back to other settings, such as 1 minute, release the button and repeat from step 3 to start over.

Once a transmitter (button) is programmed for timer mode, activating this programmed transmitter (button) will turn on the light for the specific timer interval.

During a timer count down, if the module receives another signal for timer operation, the timer will start again and overrides the previous timer, therefore, extending the ON period by another timer duration.

To stop timer count down, press a programmed button in regular mode.

5. REGULAR OPERATING MODE

If a transmitter is programmed under Regular operating mode, the programmed transmitter can control the lights either in:

1) On / Off Mode - Allows operating the light either on or off, without dimming function.

2) Dimming Mode - Allows operating the light in on, off or dimming (dim / brighten) modes. Light must be either incandescent light or dimmable compact fluorescent light.

WARNING ⚠
Non-dimmable load has to be always working under ON/OFF mode. Using non-dimmable load under dimming mode may damage the non-dimmable CFL.

Changing Between On / Off Mode and Dimming Mode

The factory default operating mode is On/Off mode. However, if your light is dimmable, you may change the operating mode to Dimming Mode. To change the operating modes, please follow the instructions below.

1. Turn on the light by the programmed transmitter.

2. Press and hold the button on the transmitter that is programmed to the module in “Regular” Mode for 10 seconds.

3. The light will flash. If it flashes once, that means it is in On / Off Mode. If the light flashes twice, that means it is in Dimming Mode.

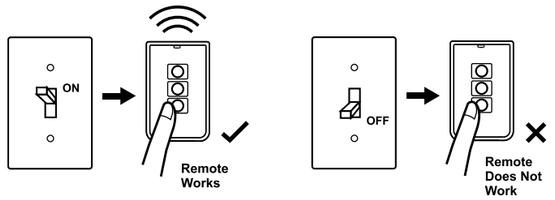
4. Repeating step 2 above will toggle the setting between On / Off Mode and Dimming Mode.

5. REGULAR OPERATING MODE (CONT)

On / Off Mode Operation

The Screw-In Dimmer allows on / off operation, when the programmed button is activate, it will transmit a signal to toggle the status of the light status. For example, if a toggle signal is received when the light is off, that signal will turn on the light.

Transmitter can only be used to operate the light when the wall switch is in the ON position. If the wall switch is in the OFF position, no power is provided to the Screw-In Dimmer, therefore it cannot receive signals from the transmitter.



In case the transmitter is not on hand, you can still operate the lighting with the wall switch. This receiver offers two optional states after powered on, choose the one which fits your requirement.

1. Power On - Light On:

1) You may use the wall switch to control the light as usual. When the wall switch is off, the light is off. When the wall switch is on, the light is on.
2) After a power outage and the electricity comes back, the light will be on if the wall switch is in On position.

2. Power On - Light Off:

1) A special sequence is needed to turn on the light by the wall switch. To turn on the light by the wall switch: 1) Switch On, 2) Switch Off, 3) Switch On again within 2 seconds. Light will be on.
2) After a power outage and electricity comes back, the light will be off under most of the circumstances.

To toggle a receiver between these two states, re-program a transmitter twice consecutively to the receiver. Referring to Section 3, repeat the programming steps twice consecutively with a transmitter that is already programmed, the receiver will change state.

Dimming Mode Operation

Besides turning on and off the light, you may also dim the light if the light bulb is either incandescent light or dimmable compact fluorescent light.

To change the brightness, first turn on the light.

Press and hold the programmed button on the transmitter will change its brightness. Hold the button until the desired brightness is reached, then release the button.

Press and hold the same button again on the transmitter to change the brightness again in the opposite way. When the desired brightness is reached, then release the button.

Refer to the user's instructions of the transmitter for more detailed instructions for dimming operation, as well as other operations such as Zone On / Zone Off, All On / All Off etc.

6. FLASHING ALERT OPERATING MODE

If a Flashing Alert Mode transmitter or sensor is activated, the light connected to the Screw-In Dimmer will flash for a predetermined time interval. During the flashing interval, the red LED on the Screw-In Dimmer will flash. Activating a programmed transmitter or sensor under Regular Mode or Countdown Timer Mode during flashing interval can override flashing alert operation.

7. COUNTDOWN TIMER OPERATING MODE

If a Countdown Timer Mode transmitter or sensor is activated, the light connected to the Screw-In Dimmer will be on for the predetermined time Interval. During the timer count down, the red LED on the Screw-In Dimmer will be on steadily. Activating a programmed transmitter or sensor under Regular Mode or Flashing Alert Mode during timer interval can override the countdown timer operation.

8. ERASING TRANSMITTERS FROM THE MODULE

You may erase a transmitter or sensor from the Screw-In Dimmer, but you cannot erase a specific device directly, you must erase all the wireless devices, then program the ones you want to keep. Follow the instructions below to erase programmed transmitters / sensors.

Method 1 (Required the use of a programmed transmitter / sensor):

1. Power off the Screw-In Dimmer by switching off the wall switch.

2. Transmit a "Erase" code from the transmitter until step 4.

3. Power up the Screw-In Dimmer by switching on the wall switch.

4. You may stop the "Erase" code signal transmission. You have now successfully erased all the transmitters / sensors.

Method 2 (Does not require the use of any transmitter / sensor)

1. Turn off the light and Screw-In Dimmer by the wall switch.

2. Place the operating mode slide switch to the “Timer” position.

3. Press and hold the SET button. Do not release the SET button until step 5.

4. While holding on the SET button, turn on the light and Screw-In Dimmer by the wall switch. The red LED flashes quickly. You may need another person helping you to do this.

CAUTION ⚠
DO NOT TOUCH ANY METAL PARTS WHILE PRESSING THE SET BUTTON. MAKING CONTACT WITH INNER METAL PARTS MAY RESULT IN ELECTRICAL SHOCK CAUSING SEVERE OR FATAL INJURY.

5. You may release the SET button, now you have successfully erased all the devices.

9. TECHNICAL SPECIFICATIONS

Input Voltage: 120V AC, 60Hz
Standby Current: 6mA
Minimum Load: 10W
Maximum Rating: 2 Amps
Maximum Load: 200W at 120VAC
Operating Frequency: 318MHz
Operational Temperature: -4° F - 140° F (-20° C - 60° C)
Humidity: 5%-95%
Range: Up to 500 feet in open area

10. FCC

The Remote Control is approved by the FCC and it complies with Part 15 of the FCC Rules. Its operation is subject to the following two conditions :
1. This device may not cause harmful interference.
2. This device must accept any interference that may cause undesired operation.

WARNING:
Changes or modifications to this unit not expressly approved by the party responsible of compliance could void the user’s authority to operate the equipment.

11. WARRANTY

If, within one year from date of purchase, this product should become defective (except battery), due to faulty workmanship or materials, it will be repaired or replaced, without charge. Proof of purchase and a Return Authorization are required.

12. CUSTOMER SERVICE

If you would like to
- find out the up-to-date specifications
- know more about features and applications
- download documents, i.e. user’s instructions
- order Skylink products

or if you have difficulty getting products to work, please:
1. visit our FAQ section at www.skylinkhome.com, or
2. email us at support@skylinkhome.com, or
3. call our toll free at 1-800-304-1187 from Monday to Friday, 9 am to 5 pm EST.
Fax (800) 286-1320

13. ACCESSORIES

The SkylinkHome™ System consists of many other devices such as SkylinkHome™ Remotes, Motion Sensor, ON/OFF Wall Switch, Wall Dimmer, Plug-In Dimmer with or without Repeater, Plug-In ON/OFF Control (Outdoor/Indoor), Screw-In Dimmer, ON/OFF/Dimming Control, ON/OFF Control, Smart Button™ Garage Door Control, etc. Please visit Skylink website at www.skylinkhome.com for more information.

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