smartlabs®

On-Line Owner's Manual Containing Cautionary FCC & IC Statements

March 6, 2012

Wireless Remote Control AC Dimmer
INSTEON SwitchLinc 2-Wire Dimmer Model: 2474DWH
SMART Wall Dimmer 2-Wire Model: 4742A3
FCC ID: SBP2474DWH IC: 5202A-2474DWH

The owner's manual below may be accessed freely via the Internet with any web browser and supports the PDF format.
http://www.smarthome.com/2474DWH.html

Certification and Warranty

Certification
This product has been thoroughly tested by Intertek - ETL SEMKO, a nationally recognized independent third-party testing laboratory. The North American ETL Listed mark signifies that the device has been tested to and has met the requirements of a widely recognized consensus of U.S. and Canadian device safety standards, that the manufacturing site has been audited, and that the manufacturer has agreed to a program of quarterly factory follow-up inspections to verify continued conformance.

FCC & Industry Canada Compliance Statement
This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS-210. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorise aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radiolectrique subi, mme si le brouillage est susceptible d'en compromettre le fonctionnement.

The digital circuitry of this device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15B of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. 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 and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna of the device experiencing the interference
- Increase the distance between this device and the receiver
- Connect the device to an AC outlet on a circuit different from the one that supplies power to the receiver
- Consult the dealer or an experienced radio/TV technician

WARNING: Changes or modifications to this device not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Complies with Section 5 of FCC document *784748 D01 Labeling Part 15 18 Guidelines v07* where cautionary statements in the user manual may be provided over the Internet.

SwitchLinc™ 2-Wire Dimmer

Owners Manual

#2474DWH

INSTEON

Installation

CAUTIONS AND WARNINGS

Read and understand these instructions before installing and retain them for future reference.

This product is intended for installation in accordance with the National Electric Code and local regulations in the United States or the Canadian Electrical Code and local regulations in Canada. Use indoors only. This product is not designed or approved for use on power lines other than 120V 60Hz, single phase. Attempting to use this product on non-approved power lines may have hazardous consequences.

Recommended installation practices:

- Use only indoors or in an outdoor rated box
- Be sure that you have turned off the circuit breaker or removed the fuse for the circuit you are installing this product into. Installing this product with the power on will expose you to dangerous voltages.
- Connect using only copper or copper-clad wire
- This product may feel warm during operation. The amount of heat generated is within approved limits and poses no hazards. To minimize heat buildup, ensure the area surrounding the rear of this product is as clear of clutter as possible.
- Each INSTEON product is assigned a unique INSTEON ID, which is printed on the product's label.
- To reduce the risk of overheating and possible damage to other equipment, do not use this product to control loads in excess of the specified maximum(s) or, install in locations with electricity specifications which are outside of the product's specifications. If this device supports dimming, please note that dimming an inductive load, such as a fan or transformer, could cause damage to the dimmer, the load bearing device, or both. If the manufacturer of the load device does not recommend dimming, use a non-dimming INSTEON on/off switch. USER ASSUMES ALL RISKS ASSOCIATED WITH DIMMING AN INDUCTIVE LOAD.

Identifying the Electrical Wires in your Home

- Line - usually Black, may also be called HOT, LIVE or Power, carries 120VAC/60Hz electricity into the wall box
- Neutral - usually White commonly daisy chained from box to box usually appearing as a White wire bundle
- Load – usually Black from a separate cable jacket
- Ground - Bare wire or metal fixture (if grounded)

IMPORTANT!

If you have any difficulties or questions, consult an electrician. If you are not knowledgeable about, and comfortable with electrical circuitry, you should have a qualified electrician install the product for you.

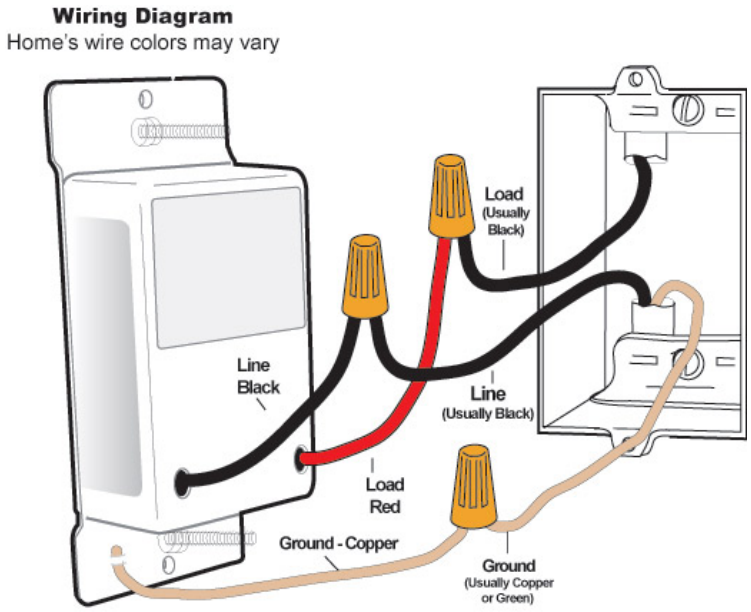
In the Box	Tools Needed	Optional Accessories
SwitchLinc 2-Wire Dimmer	Slotted screwdriver	RemoteLinc 2
Three wire nuts	Phillips screwdriver	SmartLinc
Quick Start Guide	Wire cutter / stripper	
	Voltage Meter	

Installation

1) At electrical panel, turn off circuit breaker(s) feeding wall box (verify that power is off)
2) Remove wallplate and unscrew the switch you are replacing and gently pull out
3) Disconnect wires from switch[1]
4) Turn breaker on
5) Use a voltage meter to identify the line and load wires which connected to the switch
6) Identify ground
7) Turn breaker back off
8) Connect wires

SwitchLinc Wire	Wall Box Wire (common colors)
Bare copper	Ground (bare copper, green wire or green screw)
Red	Light / load (red or blue)
Black	Line (black)

9) Gently place SwitchLinc into wall box, oriented with the LED bar on left and screw into place
10) Turn breaker on
    Light will turn on
    LED turns white and indicates brightness of light
11) Verify SwitchLinc is working properly by turning the light on and off
12) Reinstall the wallplate



[1] If the wires cannot be detached by unscrewing them, cut the wires where they enter the switch, then strip ½" of insulation off the ends

Local Control

Follow these instructions to control the connected light/load (as well as responders, if any) from the dimmer paddle.

SwitchLinc Paddle	Tap	Press & hold	Double-tap	LED
Top	**On** ramped	**Brighten** until release or 100%	On instant	White
Bottom	**Off** ramped	**Dim** until release or off	Off instant	Bottom LED Off

Setup Local Settings

Local On-Level

The local on-level is the brightness that the light physically wired to SwitchLinc will come on at when turned on at the SwitchLinc paddle. The default is 100% brightness. Local on-level can be set to any one of 32 fixed brightness levels (3% to 100%) or “resume bright” (brightness prior to last being turned off).

1) Adjust the light to the desired brightness
2) Tap the Set button once
   *SwitchLinc will **(Beep)***
3) Test by pressing On/Off

Local Ramp Rate

The local ramp rate is the time it takes for the lamp to brighten from off to 100% brightness when controlled at the paddle. It is adjustable from instant to 8 minutes (with software) and instant to 9 seconds (using Set button). Default ramp rate is 0.5 seconds.

Setting Ramp Rate is done using brightness level as an indicator for how fast SwitchLinc should ramp.

a. Use the Up / Down paddle on SwitchLinc to set brightness
   - Set Brighter level for a faster Ramp Rate
     - 100% corresponds to a 0.1-second Ramp Rate (fast Ramp Rate)
   - Set Dimmer for a slower Ramp Rate
     - Full-off corresponds to a 9-second Ramp Rate (slow Ramp Rate)

1) Adjust the connected light(s) to brightness corresponding to desired Ramp Rate
2) Double-tap Set button on your SwitchLinc
   *SwitchLinc will **(Beep)***
3) Test Ramp Rate settings by tapping On/Off paddle on your SwitchLinc or Controller
   Connected light(s) will ramp up and down at the new rate
4) Start again if the ramp rate is not as desired or, if your double tap was not fast enough you may have accidentally changed the Local On-Level instead of the Local Ramp Rate

Note:

- Software allows you to set on-levels and Ramp Rates exactly as desired and consistently around the house
- Ramp Rates can be extended up to 8 minutes via home automation software

Change LED Brightness (or turn it off)

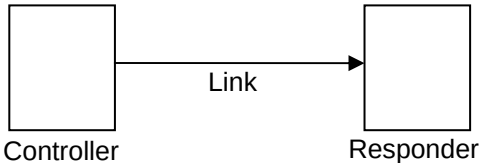
1) Press & hold SwitchLinc set button until it beeps (3 seconds)
   *SwitchLinc LED will begin blinking **green***
2) Press & hold set button until it beeps again (3 seconds)
   *SwitchLinc LED will start blinking **red***
3) Press & hold set button until it beeps a third time (3 seconds)
   SwitchLinc LED will stop blinking
   SwitchLinc Status LED will illuminate at current LED brightness level
4) Use the paddle to brighten or dim the LEDs to desired brightness
   a. Press & hold paddle top to brighten
   b. Press & hold paddle bottom to dim
5) Once you have reached the desired brightness for your LEDs, tap set button once
   SwitchLinc will beep
   LED's now set to new brightness level

INSTEON Setup

INSTEON Controllers, Responders and Links

Let's define a few terms.

- The INSTEON "transmitter" is called a ***Controller***
- The INSTEON "receiver" is called a ***Responder***
- The association between the controller and responder is called a ***Link***

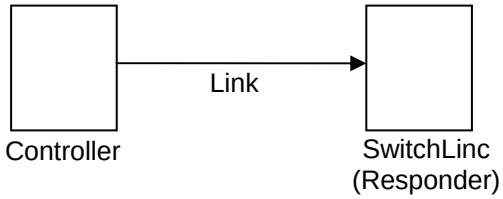


Please note that a link is one way. If you wish to have control "the other way", simply repeat link setup process "the other way". Most INSTEON devices can store hundreds of links. Furthermore, a controller can simultaneously control from 1 to hundreds of responders using what are called groups and scenes. Each link can have its own properties (e.g. 50% brightness at a 4 second ramp rate).

Make SwitchLinc a Responder

Follow the steps below to create a link, enabling another INSTEON device to control SwitchLinc.

1) Press & hold controller button until beep (or LED blinks)
   Controller LED will start blinking
2) Adjust SwitchLinc to desired brightness / state for link
   Load turns on and LED turns white
3) Press & hold SwitchLinc set button until double-beep
   Controller will (beep)-(beep) & LED stops blinking
4) Test by tapping controller button on and off
   SwitchLinc will turn on and off



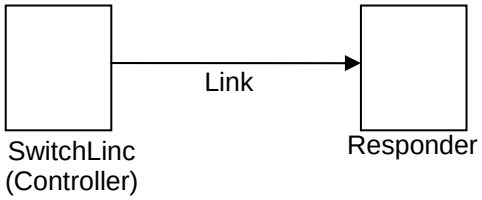
Notes:
- The link just created is one-way, see "Make SwitchLinc a Controller" to add another link to keep the two products in synch.

- If you wish the load to be off when link is activated (such as for an “all off” scene), turn the load off in step #2

Make SwitchLinc a Controller

Follow the steps below to control a different INSTEON device from SwitchLinc.

1) Press & hold SwitchLinc set button until it beeps
   *SwitchLinc LED will start blinking **green***
2) Turn responder on[1]
3) Press & hold responder set button until it double-beeps
   SwitchLinc LED will stop blinking[2]
   Responder LED will stop blinking and (Beep)-(Beep)[3]
5) Test by tapping SwitchLinc paddle on and off
   Responder will toggle on and off



Notes:
- If you wish to add another responder, repeat steps 1-5
- The link just created is one-way, see “Make SwitchLinc a Responder” to add another link to keep the two products in synch.

Groups (keeps devices synchronized)

Devices in a group will all remain synchronized. Every device in a group is a controller of all the other devices as well as a responder of all the other devices. The most common example of a group is a 3-way lighting circuit (2 switches). For simplicity, we will assume that the desired group level is on.

Example of a 3 way circuit with switches “A” and “B”

1) Turn A and B on
2) Press & hold A set button until it beeps
   *A status LED will start blinking **green***
3) Press & hold B set button until it double-beeps
   *A will **(Beep)-(Beep)** and its LED will stop blinking*
4) Press & hold B set button until it beeps
   *B LED will start blinking **green***
5) Press & hold A set button until it double-beeps
   *B will **(Beep)-(Beep)** and its LED will stop blinking*
6) Test the group by controlling the load from A and then B
   The load, A LED and B LED will remain in synch

Scenes

INSTEON scenes allow a controller to set the mood by setting multiple responders to any number of desired levels, all simultaneously. Software is recommended when setting up and maintaining scenes.

Create a scene with 1 controller and SwitchLinc as a member

1) Press & hold controller button until beep
   *Controller LED will start blinking **green***
2) Tap controller set button
   *Controller LED will start double-blinking **green***
3) Tap SwitchLinc on & adjust to desired scene state
   SwitchLinc LED will be white
4) Press & hold SwitchLinc set button until double-beep
5) For each additional scene member
   a. Adjust member to desired scene brightness / state
   b. Press & hold set button until double-beep
6) Press & hold controller set button until double-beep
   Controller LED stops blinking

[1] If the responder is a multi-Scene device such as a KeypadLinc, tap the Scene button you wish to control until its LED is in the desired Scene state (on or off). You can any state, not just on, for the responder’s link.
[2] If either the SwitchLinc or responders LED continues to blink, the addition failed. Tap the device’s Set button until LED stops blinking and try again.
[3] If either the SwitchLinc or responders LED continues to blink, the addition failed. Tap the device’s Set button until LED stops blinking and try again.

7) Test by tapping controller button on and off
SwitchLinc and other scene responders will all respond appropriately

Add Multiple Responders

1) Press & hold SwitchLinc set button until beep
*LED will start blinking **green***
2) Tap SwitchLinc set button
*LED will start double-blinking **green***
3) For each responder you are adding
- adjust responder to desired link/scene state
- press & hold set button until double-beep (or LED flashes)
4) Press SwitchLinc Set button once
SwitchLinc will beep once
LED stops blinking
5) Test by tapping the SwitchLinc on and off
All the responders will turn on and off

Stop SwitchLinc from Responding to an INSTEON Controller

If you no longer want a controller button to control SwitchLinc follow these directions. Note**:** If you ever wish to un-install SwitchLinc, it is important that you remove all SwitchLinc responder links. Otherwise, controllers will retry commands repetitively, creating network delays.

1) Press & hold controller button until beep[3]
*LED will start blinking **green***
2) Again, press & hold controller button until beep
*LED will start blinking **red***
3) Press & hold SwitchLinc set button until double-beep
Controller LED stops blinking
4) Test by tapping controller button on and off
SwitchLinc will no longer respond

Stop SwitchLinc from Controlling an INSTEON Responder

If you no longer want SwitchLinc to control another device (or are removing SwitchLinc) it is important that you follow the instructions below for each responder.

1) Press & hold SwitchLinc set button until beep
*LED will start blinking **green***
2) Again, press & hold SwitchLinc set button until beep
*LED will start blinking **red***
3) Press & hold responder set button until double-beep (or LED blinks)
SwitchLinc will (Beep)-(Beep) and LED stops blinking
4) Test by tapping SwitchLinc on and off
Responder will not respond

Stop SwitchLinc from Controlling Multiple INSTEON Responders

1) Press & hold SwitchLinc set button until beep
*LED will start blinking **green***
2) Again, press & hold SwitchLinc set button until beep
*LED will start blinking **red***
3) Tap SwitchLinc set button
*LED will start double-blinking **red***
4) For each responder you are removing

[3] For devices without beepers hold until its LED begins blinking (this may take 10+ seconds)

- press & hold set button until double-beep

5) Press SwitchLinc Set button once
   SwitchLinc will beep once
   LED stops blinking
6) Test by tapping the SwitchLinc on and off
   None of the former responders will respond

Factory Reset

NOTE: All settings and scenes will be erased

1) Pull set button out (creating an air gap)
2) Wait 10 seconds
3) Press the set button in as far as you can and hold
   SwitchLinc will begin a long beep
4) Continue pressing SwitchLinc set button until beep stops
5) Release set button
   SwitchLinc LED indicator will turn on momentarily, then turn off
   A few seconds will pass
   SwitchLinc will (beep)-(beep)
   LED will return to normal brightness
   The connected lights will come on to full brightness

Changing the Paddle and LED Colors

You can remove the LED light pipes and/or front paddle and trim frame assembly before or after SwitchLinc is installed. During the changeover process, power and load may remain on and operating. There are no dangerous voltages or unsafe areas under the paddle.

1) If SwitchLinc is already installed in the wall, remove the wallplate from the switch junction box

2) Remove the four Phillips screws that hold the paddle assembly to the metal frame

3) Pull the entire paddle straight away from the switch. You may have to wiggle the bottom of the frame to get it free from the Set button.

Figure 1: Paddle assembly and SwitchLinc body separated

4) Using a flat blade or needle nose pliers, remove the large light pipe as shown in Figure 2. Light pipe will snap out of the frame. Do the same for the small light pipe.

Figure 2: Snap out the light pipes with a flat tool

5) Choose which LEDs and/or paddle and trim frame you would like to install into SwitchLinc

6) Orient the new small light pipe with its protrusion facing toward center of the new frame and snap it into place. If placed in backwards or reversed, it will not click into place. Refer to Figure 3.

7) Orient the new large light pipe with side that has the most protrusions facing toward the center of the new frame. Using only finger pressure, snap the light pipe into the frame. Refer to Figure 3.

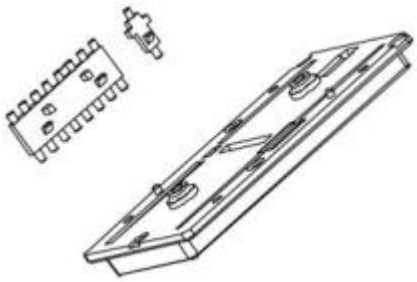


Figure 3: Insert the new light pipes with the protrusions facing the center

8) If both light pipes are installed correctly, they will stick straight out from back of the frame, as shown in Figure 4. If installed incorrectly, they will appear to be tilted as shown in Figure 5.

Figure 4: Installed correctly

Figure 5: Installed incorrectly

9) Gently place the paddle assembly back onto front of SwitchLinc. A little force may be necessary to snap the assembly over the Set button. Reinstall four screws that you removed in step 2.

Specifications

General		
Product name	SwitchLinc 2-Wire Dimmer - INSTEON Remote Control Dimmer	
Brand / manufacturer	INSTEON	
Manufacturer product number	2474DWH	
UPC	813922010817	
Warranty	2 years, limited	
INSTEON		
INSTEON powerline mesh	No	
INSTEON RF mesh	Yes	
INSTEON controller	Yes	
INSTEON responder	Yes	
Maximum links / scenes	400	
Load brightness levels	32 locally (256 with software)	
LED Behavior	White when load is on, bottom white LED is on when load is off Blinks red when responder does not acknowledge (can be disabled via software). Blinks red or green during setup.	
LED brightness	Adjustable, from off to bright	
Local on-level	Adjustable, 32 fixed brightness levels or resume dim	
Local ramp-rate	Adjustable from 0.1 seconds to 9 seconds locally (0.1 seconds to 8 minutes via software)	
Local control	Yes	
Commands supported as controller	On	Off
	Fast-on	Fast-off
	Begin bright	Begin dim
	End bright	End dim

Commands Supported as responder	On	Off
	Fast-on	Fast-off
	Begin bright	Begin dim
	End bright	End dim
	Incremental bright	Incremental dim
	Beep	Go to specific brightness level
Software Configurable	Yes	
RF Range	Up to 100’ open air	
Phase detect beacon	No, RF only product	
INSTEON Device Category	0x01 Dimmable Lighting Control	
INSTEON Device Subcategory	0x24	
X10		
No X10 Support (RF only product)		
Mechanical		
Mounting	Single gang electrical box	
Wires	Black – line (16 gauge)	
	Red – load (16 gauge)	
	Copper – ground (16 gauge)	
Screw clamp connections	NA	
Case Color	White paddle (color change kits available), clear back case	
Set button	1, clear	
Air Gap	Yes (set button pulled out)	
Plastic	UV stabilized polycarbonate	
Beeper	Yes	
LED	9 white brightness LEDs, 1 green/red status LED	
Dimensions	4.1" H x 1.8" W x 1.2" D	
Weight	3.6oz	
Operating Environment	Indoors	
Operating Temperature Range	0°C to 40°C (32°F to 104°F)	
Operating Humidity Range	0-90% Relative Humidity	
Storage temperature range	-5 ^{o} to 158 ^{o} F (-21 ^{o} to 70 ^{o})	
Electrical		
Voltage	120VAC ±10%, split single phase	
Frequency	60Hz	
Load type(s)	Wired-in incandescent lighting	
Maximum load	600 watts	
Minimum load	25 watts	
Hardwired remote control	NA	

Retains all settings without power	Yes, saved in non-volatile EEPROM
Standby power consumption	< 1 watt
Certifications	FCC, IC Canada
FCC ID	SBP2474DWH
Safety Approved	ETL (Intertek Testing Services)

Troubleshooting

Problem	Possible Cause	Solution
LED won't come On	SwitchLinc not getting power	Make sure circuit breaker is on
		Check the junction box wires to ensure all connections are tight and no bare wires are exposed
		Check that a standard incandescent bulb is installed and is rated for 25-watts or more
SwitchLinc won't Add to Scene as a Responder	The Controller may have dropped out of Add to a Scene mode, or Added another device	Try Adding SwitchLinc to the Controller again
	The INSTEON signal may not be getting to the "vicinity" of SwitchLinc	Make sure phases are bridged, add additional INSTEON devices and/or move around existing INSTEON devices
	Controller is a powerline only device (SwitchLinc 2-Wire is RF only)	You'll need to add a Dual-Band INSTEON device to bridge between powerline only and RF only devices
The Controller turns SwitchLinc Off, but not On	Ramp Rate may be extremely slow	Re-Add to Controller with fast Ramp Rate. See *Local Ramp-Rate*
	SwitchLinc may be Added to the Scene in the Off state	Turn on the light and then re-Add SwitchLinc to the Controller scene
SwitchLinc is taking a long time to respond to a Controller	The Controller may be sending commands to a different Responder that is no longer in use. Commands for the unused Responder are being resent and slowing down communication signals to SwitchLinc.	Remove from the Scene any unused Responders from the Controller HINT: If you are using home automation software, you can easily check and eliminate unnecessary Scene Memberships
		If the above doesn't work, perform a factory reset on the Controller
	Ramp Rate may be extremely slow	Re-Add to Controller with fast Ramp Rate. See *Local Ramp-Rate*
The load turned on by itself	Another Controller or a timer could have triggered SwitchLinc	Monitor for recurrence and remove device from the SwitchLinc's scene if you can determine what it is. If necessary perform a factory reset.
The load doesn't appear to turn on right away	The Ramp Rate may be set too slow	Set a faster Ramp Rate. See *Local-Ramp-Rate*
SwitchLinc is locked up	A surge on the powerline may have glitched it	Remove power to SwitchLinc by pulling out the Air Gap for ten seconds and then push back in. If that doesn't work, perform a factory reset
The lights flicker when on and the SwitchLinc repeatedly turns the load off and on	The SwitchLinc is not getting enough power from the light bulb. The SwitchLinc needs to 'steal' some of the bulb's wattage for powering its circuits.	Change the light bulb to a standard incandescent bulb of at least 25 watts. You can always set the brightness level to some lower level and still have the effect of a small-wattage bulb.

If you have tried these solutions, reviewed this Owner's Manual, and still cannot resolve an issue you are having with SwitchLinc, please call: 800-762-7845

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- Increase the distance between this device and the receiver
- Connect the device to an AC outlet on a circuit different from the one that supplies power to the receiver
- Consult the dealer or an experienced radio/TV technician

WARNING: Changes or modifications to this device not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ETL / UL Warning (Safety Warning)
CAUTION: To reduce the risk of overheating and possible damage to other equipment, do not install this device to control a receptacle, a motor-operated appliance, a fluorescent lighting fixture, or a transformer-supplied appliance.
Gradateurs commandant une lampe a filament de tungstene – afin de reduire le risqué de surchauffe et la possibilite d'endommagement a d'autres materiels, ne pas installer pour commander une prise, un appareil a moteur, une lampe flourescente ou un appareil alimente par un transformateur.

Limited Warranty
Seller warrants to the original consumer purchaser of this product that, for a period of two years from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this Owner's Manual. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it, or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller's liability with respect to this product. For repair or replacement during the warranty period, call INSTEON support at 800-762-7845 with the Model # and Revision # of the device to receive a RMA # and send the product, along with all other required materials to:

Smarthome
ATTN: Receiving
16542 Millikan Ave.
Irvine, CA 92606-5027

Limitations
The above warranty is in lieu of and Seller disclaims all other warranties, whether oral or written, express or implied, including any warranty or merchantability or fitness for a particular purpose. Any implied warranty, including any warranty of merchantability or fitness for a particular purpose, which may not be disclaimed or supplanted as provided above shall be limited to the two-year of the express warranty above. No other representation or claim of any nature by any person shall be binding upon Seller or modify the terms of the above warranty and disclaimer.
Home automation devices have the risk of failure to operate, incorrect operation, or electrical or mechanical tampering. For optimal use, manually verify the device state. Any home automation device should be viewed as a convenience, but not as a sole method for controlling your home.

In no event shall Seller be liable for special, incidental, consequential, or other damages resulting from possession or use of this device, including without limitation damage to property and, to the extent permitted by law, personal injury, even if Seller knew or should have known of the possibility of such damages. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of damages, in which case the above limitations and/or exclusions may not apply to you. You may also have other legal rights that may vary from state to state.