

I N S T E  N[®]



Insteon Dimmer Module
Owner's Manual

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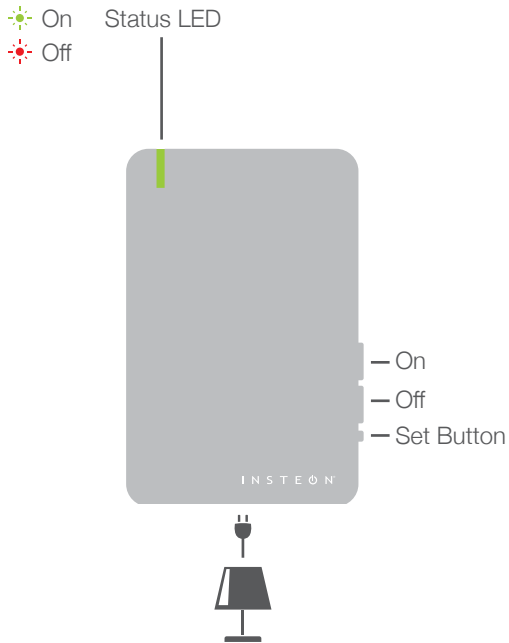
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Getting Started

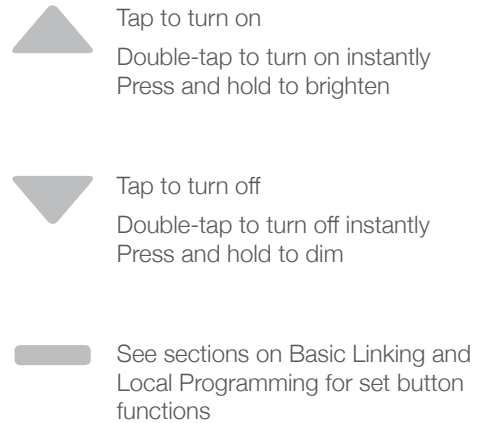
Everything you need to quickly get up and running.

Insteon Dimmer Module

Device Overview

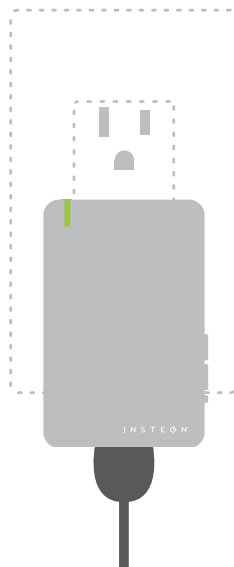


Buttons



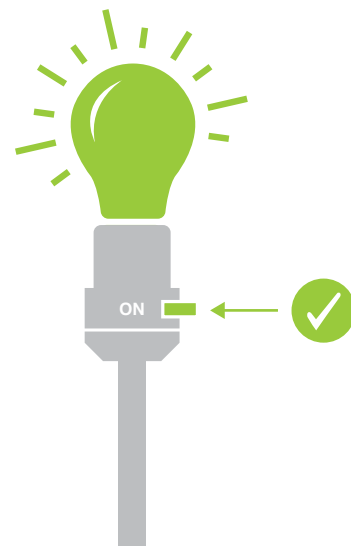
Installation

Plug your lamp into the bottom of the Dimmer Module and plug the Dimmer Module into an unswitched wall outlet.



Leave Your Lamp On

If your lamp's switch is OFF, the Dimmer Module will be unable to remotely control your lamp.



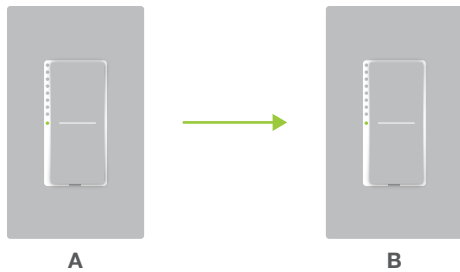
Insteon Links

Insteon devices can stand alone and function as a local switch or dimmer, but their real power comes when they are connected together to form a control system. Most Insteon devices can control one another and be the recipient of control. The process of associating multiple Insteon devices to one another is called Linking.

Understanding Linking

Links are One-Way

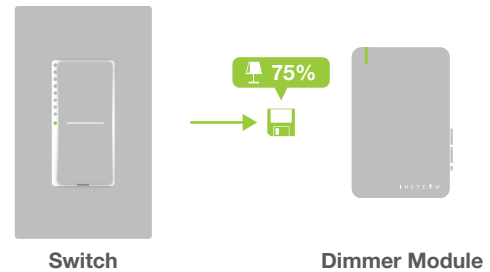
When linking Insteon devices, the links that are created are one-way.



Switch A will turn Switch B on and off but Switch B cannot turn Switch A on or off.

Links Remember a Device's State

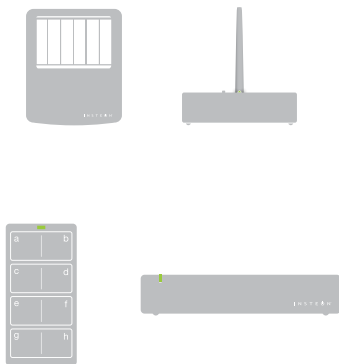
The current state of the controlled device is stored in the link: on, off or dimmed.



The switch will turn on the Dimmer Module to 75% brightness.

Controllers

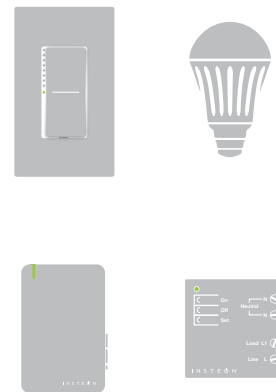
Insteon devices that can turn other devices on or off are called controllers.



Sensors, Switches, Keypads and the Hub are common controllers.

Responders

Insteon devices that receive the command of a controller are called responders.

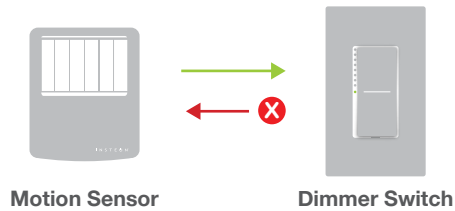


Switches, LED Bulbs, Plug-In Modules and Micro Modules are common responders.

Understanding Linking

Controller-Only

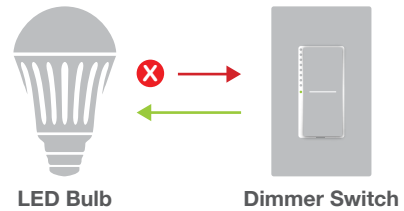
Some devices like sensors can only control other devices.



The Motion Sensor will turn on the Switch but the switch cannot control the Motion Sensor.

Responder-Only

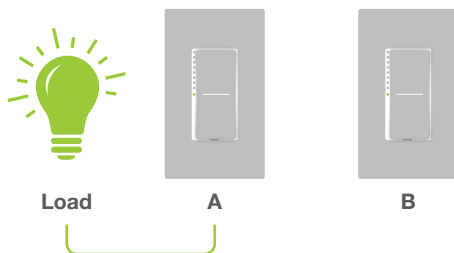
Some devices cannot control other devices; these devices only receive Insteon commands.



Some devices can only link as responders to devices and scenes.

Grouping Devices

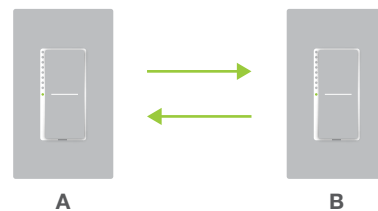
You may want to group together two devices, for example, in a virtual-three way configuration. For Insteon, this is called Cross Linking.



To group Switch A and B so that they each control one another and the connected load, Cross Linking is necessary.

Use Cross Linking

To Cross Link, simply turn on the devices and perform the linking process twice, once in each direction.



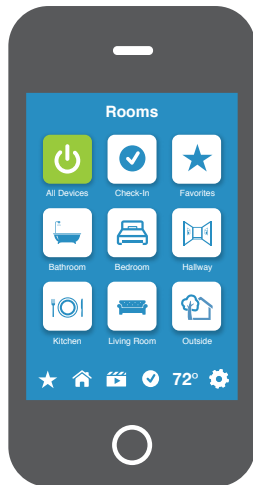
Link Switch A to Switch B and repeat to link Switch B to Switch A.

Insteon Hub

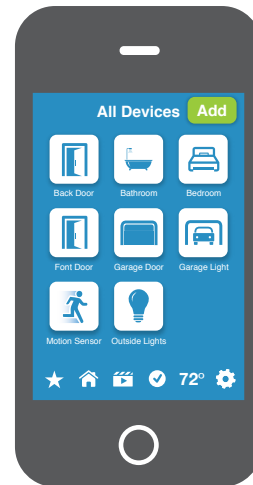
The Insteon Hub allows you to configure your device, customize its properties, create scenes and more, all from your smartphone or tablet.

Linking to the Insteon Hub

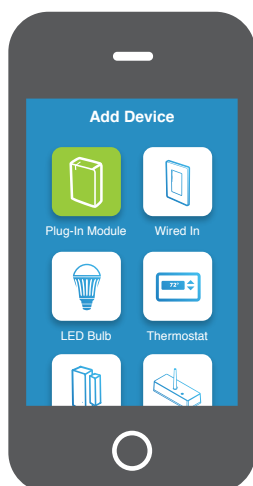
- 1 From Rooms, navigate to All Devices.



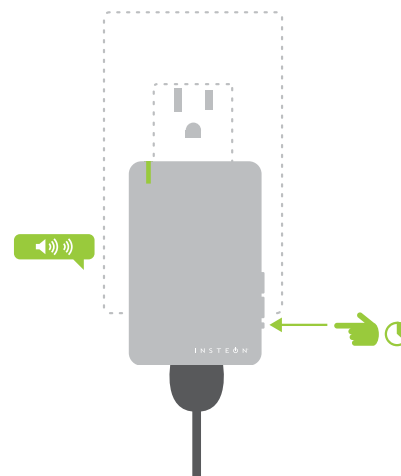
- 2 Tap the Add button.



- 3 Select Plug-In Module from the list of devices.



- 4 When prompted, press and hold the set button on your Dimmer Module until the device double-beeps.



✓ You can now control your Dimmer Module from the Insteon Hub.

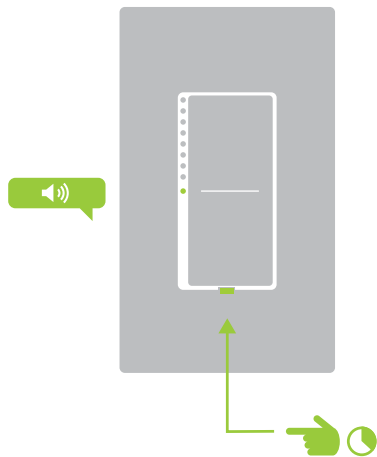
Manual Linking

When not using a central controller like the Insteon Hub, Insteon devices can be configured and linked manually on a device-to-device basis. It is strongly advised that you not perform manual linking when using a central controller. Instead, let your central controller handle the linking for you.

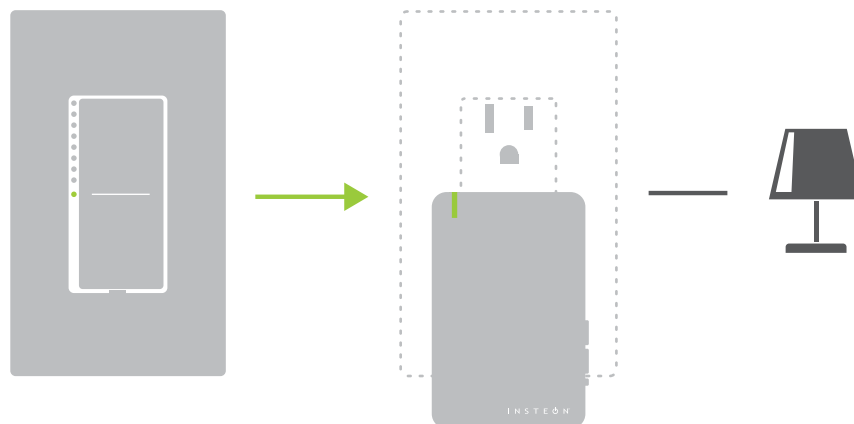
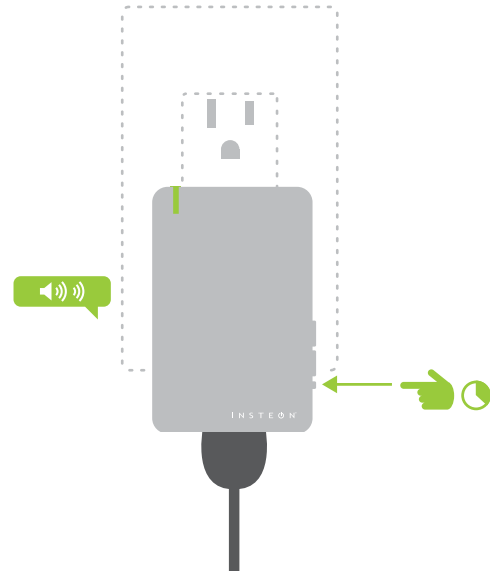
Linking with a Single-Button Controller

Manual Linking Only

- 1 On your Insteon controller, press and hold the set button until the device beeps.



- 2 Make sure the Dimmer Module is On and then press and hold the Dimmer Module's set button until the device double-beeps.

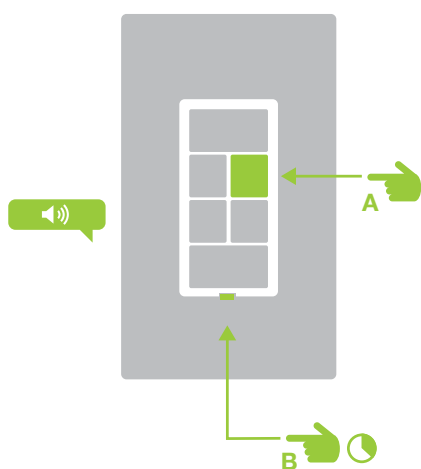


✓ Your Insteon controller will now control your Dimmer Module.

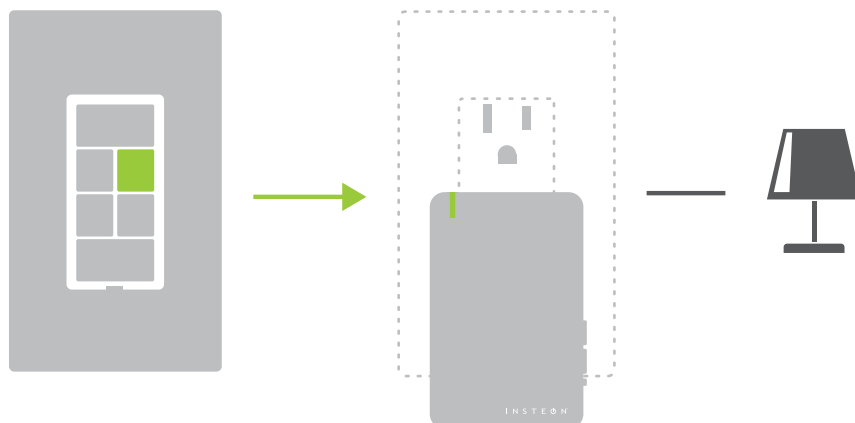
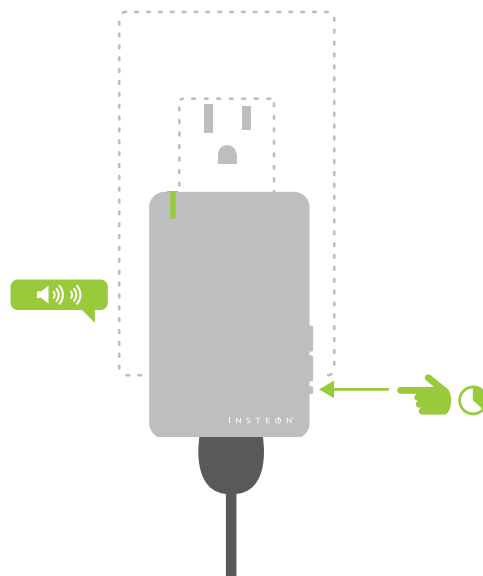
Linking with a Multi-Button Controller

Manual Linking Only

- 1 On your Insteon controller, tap the desired control button and then press and hold the set button until the device beeps.



- 2 Make sure the Dimmer Module is On and then press and hold the Dimmer Module's set button until the device double-beeps.

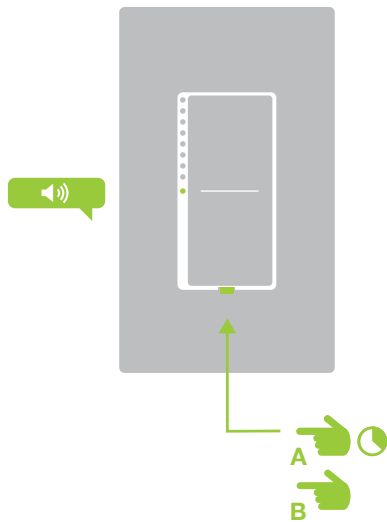


Your Insteon controller will now control your Dimmer Module.

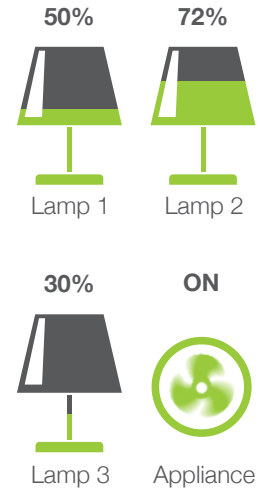
Multi-Linking or Making a Scene

Manual Linking Only

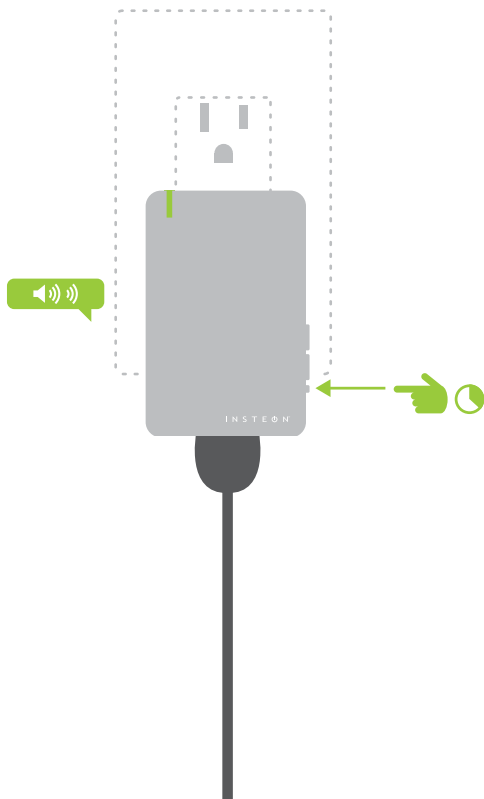
- 1 On your Insteon controller, press and hold the set button until the device beeps, then tap the set button.



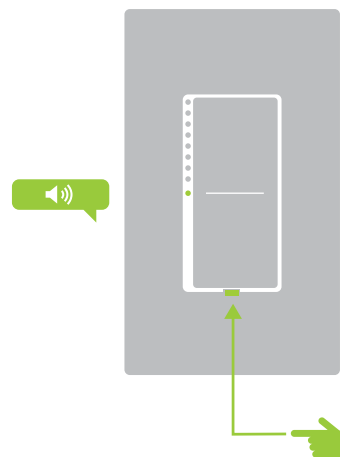
- 2 Adjust your scene members to their desired state: on, off, or brightness level if dimming.



- 3 One at a time, press and hold the set button on each scene member until it double-beeps.



- 4 Tap the set button on your Insteon controller to finish building your scene.

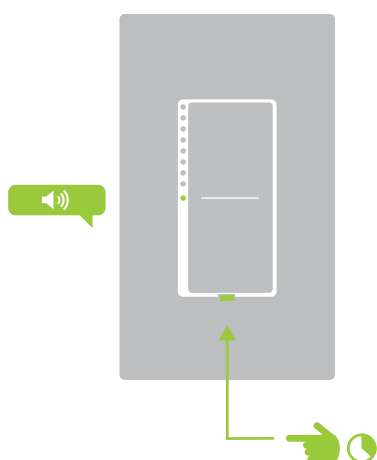


✓ Your Insteon controller will now control your scene.

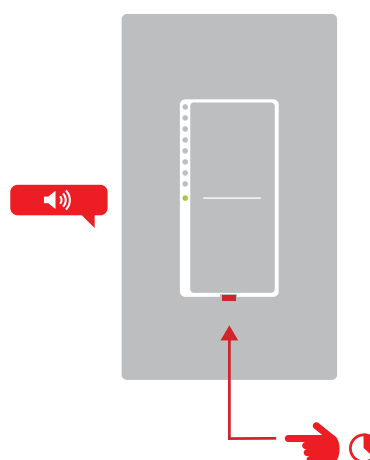
Unlinking from a Single-Button Controller

Manual Linking Only

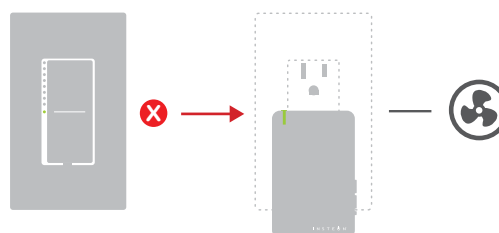
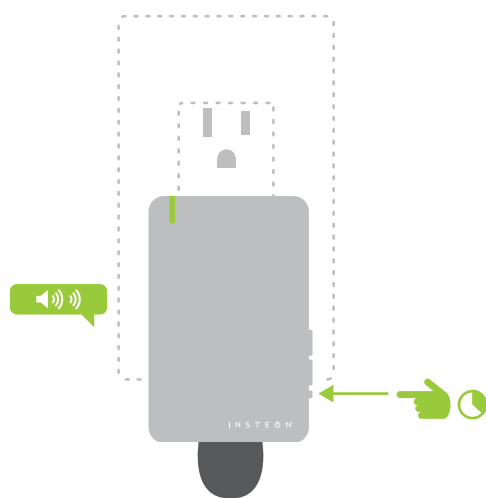
- 1 On your Insteon controller, press and hold the set button until the device beeps.



- 2 Press and hold the set button again until the device beeps.



- 3 Press and hold the Dimmer Module's set button until the device double-beeps.

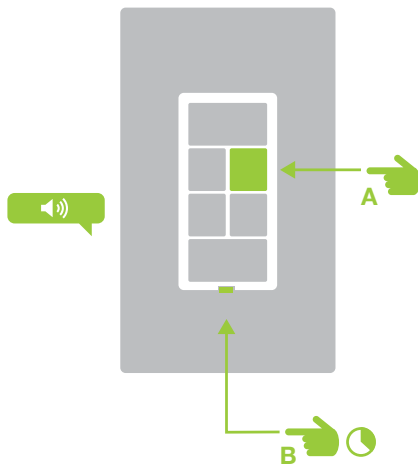


✓ Your Insteon controller will no longer control your Dimmer Module.

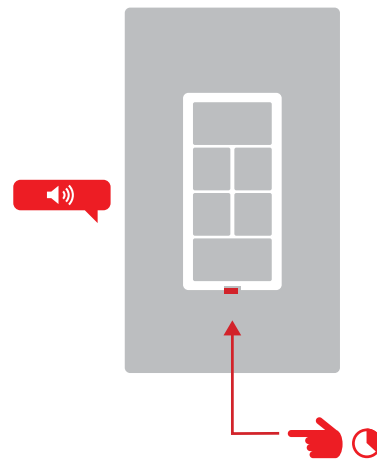
Unlinking from a Multi-Button Controller

Manual Linking Only

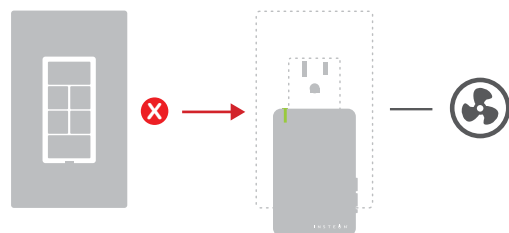
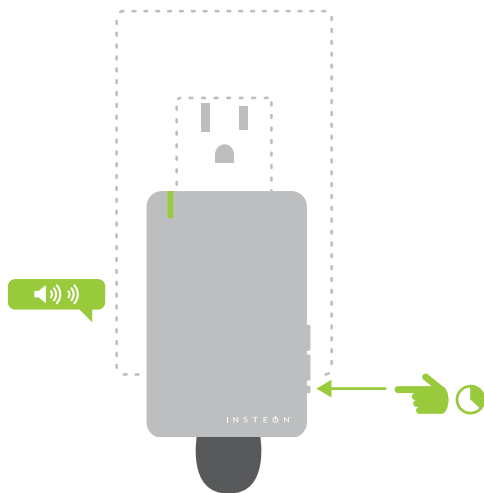
- 1 On your Insteon controller, tap the desired control button and then press and hold the set button until the device beeps.



- 2 Press and hold the set button again until the device beeps.



- 3 Press and hold the Dimmer Module's set button until the device double-beeps.

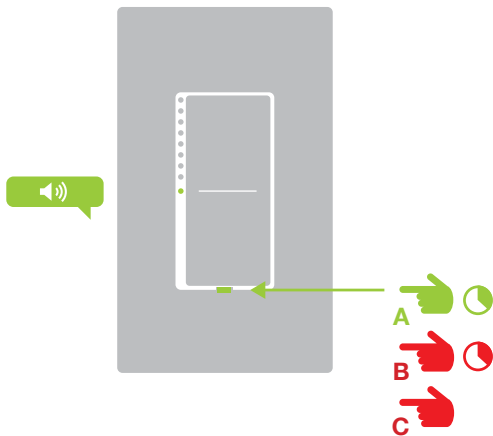


✓ Your Insteon controller will no longer control your Dimmer Module.

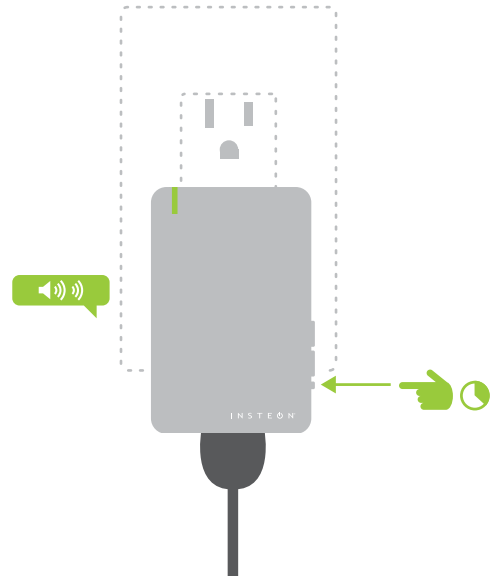
Multi-Unlinking or Removing a Scene

Manual Linking Only

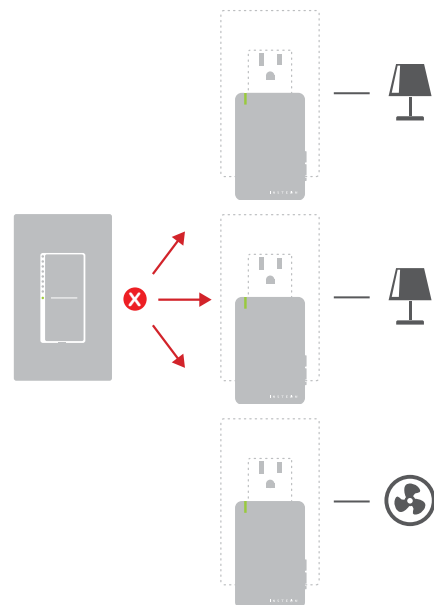
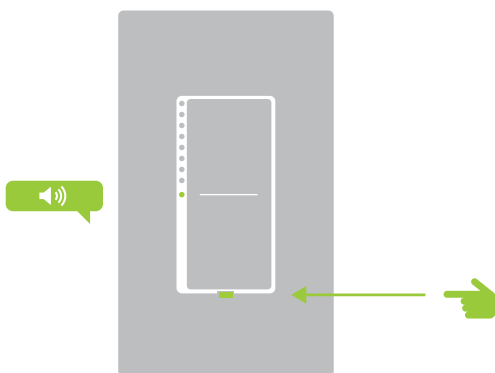
- 1 On your Insteon controller, press and hold the set button until the device beeps. Press and hold the set button again, then tap the set button.



- 2 One at a time, press and hold the set button on each scene member until it double-beeps.



- 3 Tap the set button on your Insteon controller to exit Multi-Unlinking mode.



✓ Your Insteon controller will no longer control your Insteon responders.

Local Programming

Use the local programming to set local on-level, ramp rates and even perform a factory reset.

About Local Programming

Local Programming

The Local Programming Flowchart is a visual representation of the device's settings. Many device features can be configured using this diagram. Some devices have more options than others but the Local Programming Flowchart presents even the most complicated devices with a straightforward, navigable path.

Using a Central Controller

If using the Insteon Hub or any other central controller, it is strongly advised that you not use Local Programming. Your central controller can manage the device properties and links for you.

Navigation



To move right, press and hold the set button



To move down, tap the set button



Status LED blinks green



Status LED double-blinks green



Status LED blinks red

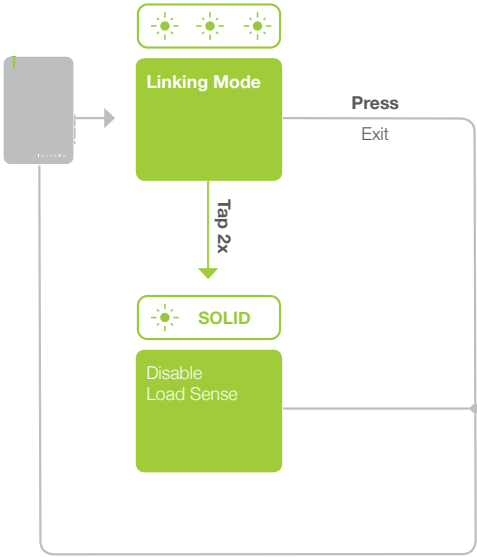


Status LED double-blinks red

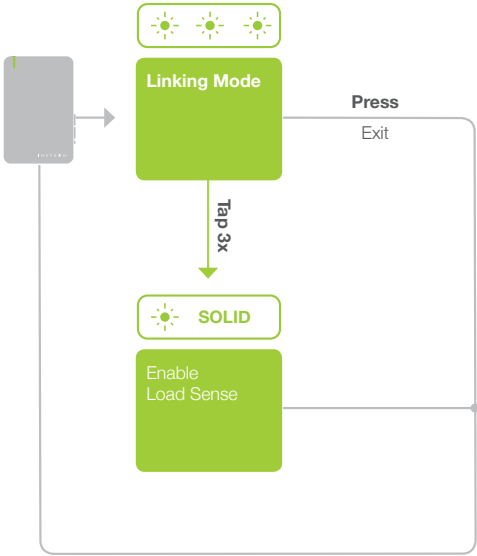
Local Programming Features

Linking Mode	Readies the module for linking to another Insteon device. As linking is directional, the first device placed into linking mode will become the controller in the controller/responder relationship. The second device will become the responder. The device automatically exits linking mode after a link has been made with another Insteon device or four minutes have elapsed without linking.
Multi-Linking Mode	Readies the module for linking to multiple Insteon devices. The module will remain in linking mode for 4 minutes or until the module's set button is tapped. This mode is very useful for manually creating scenes.
Unlinking Mode	Allows the removal of links from the Insteon device. The device will automatically exit unlinking mode after a link has been removed from another Insteon device or four minutes have elapsed without linking.
Multi-Unlinking Mode	Allows the removal of multiple links from the Insteon device. The device will stay in unlinking mode for 4 minutes or until the device's set button is tapped.
LED Brightness	Allows adjusting the brightness level of the module's status LED.
RF Beacon	Places the device in a mode that broadcasts a signal over Insteon RF. Any devices beeping or displaying a blinking LED are within range of the module's RF signal.
Factory Reset	Erases any user-customized programming from the device including all Insteon device links, scenes, ramp rate, on-level, etc. A factory reset cannot be undone.

Load Sense
Disable



Load Sense
Enable

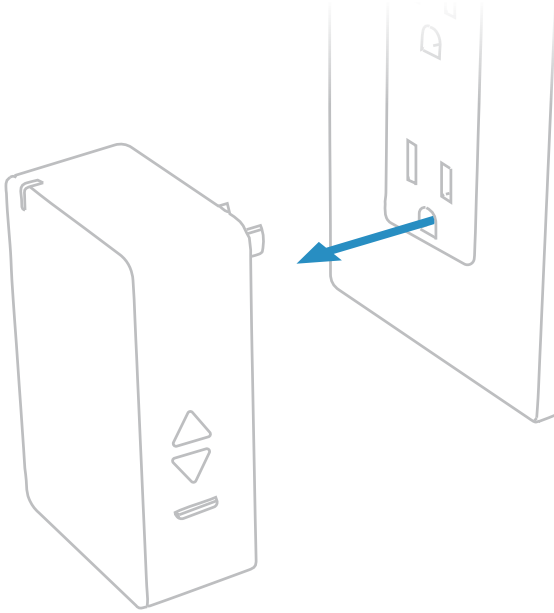


Hardware Reset

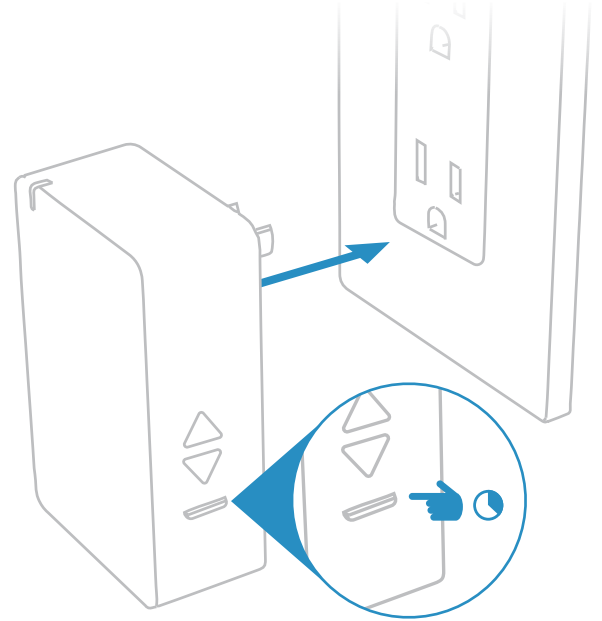
A factory reset will erase all links stored in the device's database as well as any customized properties.

Factory Reset

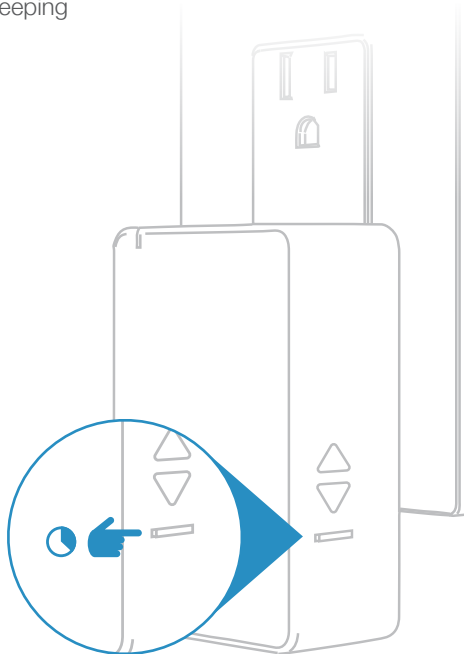
- 1 Unplug Dimmer Module from its power outlet.



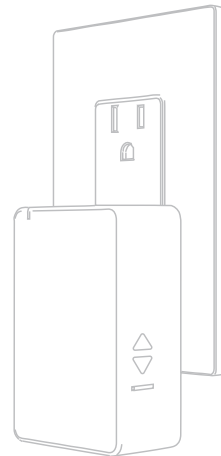
- 2 Simultaneously press and hold the set button while reconnecting Dimmer Module to power.



- 3 Continue holding the set button until Dimmer Module stops beeping



- 4 When the reset is complete, Dimmer Module will double-beep



✓ Your Dimmer Module has been restored to factory settings.

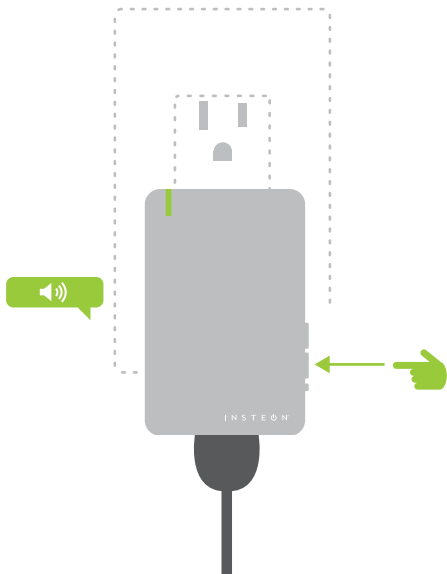
Software-Only Features

Most Insteon devices contain features that can only be enabled, disabled or modified using Insteon control software such as HouseLinc and an Insteon PowerLine Modem or the Insteon Hub.

Software-Only Features

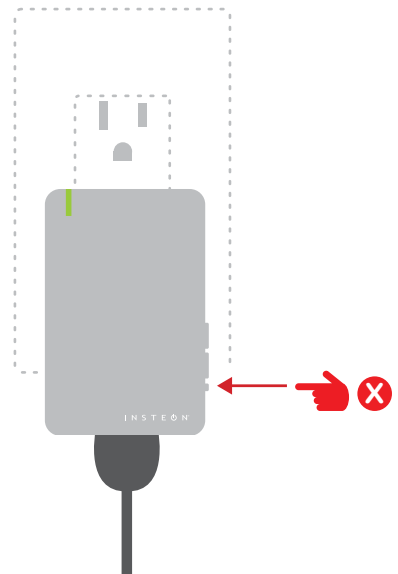
Beep on Button Press

The Dimmer Module will beep every time one of its buttons are tapped. By default, this feature is disabled.



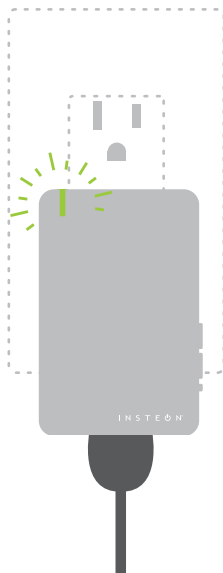
Disable Local Programming

Prevents changing any settings using the set button or tap-and-hold programming. By default, this feature is disabled.



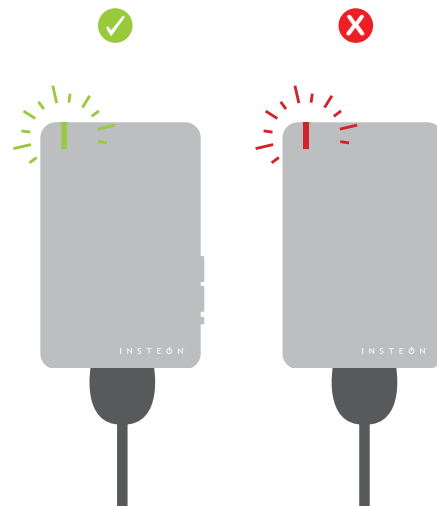
Blink on Traffic

The Dimmer Module LED will blink if it detects Insteon communication. By default, this feature is disabled.



Error Blink

The Dimmer Module LED will blink red once if one or more responders do not acknowledge a message and will blink green once if all responders successfully acknowledge a message. By default, this feature is enabled.



Appendix

Everything else you might need to know about your Insteon product.

Insteon Glossary

Controller	The Insteon transmitter
Responder	The Insteon receiver
Blinking	LED turning on and off repeatedly
Dual-Band	An Insteon device that can send and receive both Insteon powerline signals and Insteon radio frequency signals
Ramp Rate	The speed at which the load fades on or off
On-Level	The preset brightness level a device will return to when turned on
Insteon	A dual-band, mesh networking technology developed by Smarthome/Insteon. The world's most reliable, expandable and simple home automation and control technology.
Link	A one way association between a controller and responder
Linking	A method for associating Insteon controller buttons with groups of Insteon responders such that the responders instantly return to a memorized state when the button is pushed. Links can be made manually with the set button or using software.
Unlinking	The process by which an Insteon device can remove stored links. Just as with linking, unlinking is a one-way process and should be performed in both directions for devices that are both controllers and responders of each other, as in a 3-way switch scenario.
Multi-Linking / Unlinking	A special mode that allows more than one link to be either created or removed simultaneously, without laborious set button presses. When in linking or unlinking mode, an Insteon device will continue to link to other devices until the set button is tapped or four minutes have elapsed, whichever occurs first.
Factory Reset	A process that erases all stored links and reconfigures the device to factory defaults.
Load	The device that you are controlling (e.g. a light bulb, ceiling fan, etc.)
On/Off	A device that can control its connected load to turn on and off but cannot dim. Usually a relay-based device.
Retry	A 2nd (or subsequent) attempt by a controller to send an Insteon signal, usually after an acknowledge is not received from the responder in the expected time-slot.
Scene	Multiple devices respond to memorized states. For example, a dinner time scene turns on the dining table light, dims the kitchen lights to 10%, backyard lights turn off and the thermostat adjusts to 72°.
Set Button	A button on an Insteon device that is used for setting or changing its properties
Simulcast	A method for increasing the reliability of message delivery in a network. When a node in a network sends a message, every other node that hears the message retransmits it at precisely the same time based on a global clock, provided that the message has not already been retransmitted some maximum number of times. Message propagation is more robust because each node adds its energy to the signal, much like voices in a choir. Simulcasting is much simpler than message routing because there are no routing tables to maintain and nodes can join the network without any installation procedure.
X10	A legacy powerline networking technology. Many Insteon devices are backwards compatible with X10 devices by setting a house and unit code.

Specifications

General

Available Colors	White
Brand:	Insteon
FCC ID	SBP2475D2A
Industry Canada	5202A-2475D2A
Manufacturer Product No.:	2475D2
Patent No.:	Protected under US and Foreign Patents (see www.insteon.com/patents)
UPC:	813922010183
Warranty:	2 years, limited

Operation

Audio Alert	Beeper, can be enabled/disabled through software
Operation Modes	Insteon. Versions prior to 3.6 also support X10.
Load Sensing	Yes. Versions prior to 3.6 do not support load sense.
Local Control	Yes
Setup Memory	Non-volatile EEPROM
Status LED	Red/Green LED

Insteon Features

Insteon Device Category	0x01 dimmable lighting control
Insteon Device Subcategory	0x37
Insteon ID	1
Insteon Links	400
Insteon Messages Repeated	Yes
Insteon Minimum Receive Level	10 mV
Insteon Minimum Transmit Level	3.2 Vpp into 5 Ohms
Insteon Powerline Device	Yes
Insteon Powerline Frequency	131.65 KHz
Insteon RF Device	Yes
Maximum Controlled Scenes	1

Maximum Scene Memberships	400	
Multi-Link Support	Yes	
Multi-Unlink Support	Yes	
RF Beacon	Yes	
Radio Frequency	915.0 MHz	
Radio Frequency Range	150 feet	
Scene Commands Supported as Controller	On	Off
	Fast-On	Fast-Off
	Begin Brighten	Begin Dim
	End Brighten	End Dim
Scene Commands Supported as Responder	On	Off
	Fast-On	Fast-Off
	Begin Brighten	Begin Dim
	End Brighten	End Dim
	Beep	
Software Configurable	Yes	

Mechanical

Dimensions	3.2" H x 2.05" W x 1.05" D 81.2mm H x 53mm W x 26.6mm D
Dimming Technology Employed	Leading-edge TRIAC dimmer
Enclosure Material	UV stabilized plastic
Mounting	Ungrounded, polarized electrical outlet, NEMA 1-15
Operating Environment	Indoors
Operating Humidity Range	0-85% relative humidity, non-condensing
Operating Temperature Range	32° to 104° F 0° to 40° C
Set Button	Yes
Storage Temperature Range	-4° to 158° F -20° to 70° C
Weight	3.3 oz

Electrical

Controlled Outlet	Yes, ungrounded polarized. NEMA 1-15 type
Hardwired Remote Control	No
Load Types	Plug-in incandescent lighting sources
Maximum Load	300 Watts
Minimum Load	5 Watts
Pass-through Outlet	No
Power Consumption	<0.75 Watts
Supply Voltage	120 Volts AC $\pm$ 10%, 60 Hertz, single phase
Surge Resistance	Surges over 1,000 volts

X10 Features (Powerline Only)

X10 Support	No. Versions prior to 3.6 support X10.
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Troubleshooting

Dimmer Module LED does not turn on

It is possible your Dimmer Module is not receiving power. If the attached load can still be controlled, It is possible that the status LED has been disabled.

Try this:

- Test Dimmer Module in a different power outlet. If the LED illuminates when using a different outlet, check the original outlet for power. Some outlets are controlled by a switch elsewhere in the room. Avoid switched outlets as they disable your Insteon device when turned off.
- If the outlet works and the connected lamp can be toggled, use software or the Local Programming Flowchart to change the behavior of the status LED. The status LED brightness can be dimmed to the point that it appears off. The Insteon Hub and other central controller software allow setting of this device property.

Unable to add Dimmer module to a scene as a controller or a responder

If the device has power, something is likely interfering with the Insteon signal. Large appliances, power strips and some electronic devices may generate powerline noise.

Try this:

- Check to see if you have connected Dimmer Module to a power strip, surge suppressor, backup battery or AC line filter. These devices often filter out the Insteon powerline signal. Relocate the Dimmer Module to a standard AC outlet.
- Large appliances like refrigerators or air conditioners may be generating powerline noise that is disrupting the Insteon signal. If the issue only appears to happen when one of these large appliances is running, install a noise filter at that device. If you are uncertain of the device generating the noise, disconnect the potentially offending devices from power and test your Dimmer Module again. If the issue is resolved, install noise filters at each offending appliance.
- Some small electronics devices that include an AC/DC power supply can generate substantial electrical noise, in some cases, enough to disrupt an entire house of Insteon devices. Search your home for speaker docks, small stereos, etc. and disconnect them from power to perform testing. If removing these devices from your powerline resolves the Insteon issue, install a noise filter at each offending small electronic appliance.
- Your Dimmer Module may be too far from another Insteon device to receive a signal. Try locating the Dimmer Module closer to another Insteon device and if the issue is resolved, install a Range Extender or other Dual-Band Insteon device between the intended location of your Dimmer Module and the next nearest Insteon device.

The Dimmer Module is slow to respond to commands from a controller

This issue most likely lies with the controller, not the Dimmer Module; the controller is most likely repeating commands not acknowledged by an Insteon device that has been removed from the network. The repeated commands are slowing down the Insteon network, resulting in a delayed response from the Dimmer Module.

Try this:

- Consider if you have removed any Insteon devices from you network that were part of the slow-to-respond scene. If so, the links to these devices need to be removed from the controller. Use software to examine the database of the controller or if you know the modules that were removed, manually remove their links using the standard unlinking procedure.
- If you are unable to identify the missing devices, perform a factory reset on the controller. This will remove all links from the controller's database but will also require that you reconfigure the device's scenes and properties.

Troubleshooting

The connected lamp turned on by itself

There must be a device in your Insteon network that is unexpectedly linked to the Dimmer Module. If you have given your device an X10 address, powerline noise may be triggering the Insteon device.

Try this:

- Use software to examine the Dimmer Module's links. If you can identify the stray controller, remove the link.
- If you are unable to identify the unexpected controller, perform a factory reset on the Dimmer Module. This will remove all links from the module's database but will also require that you reconfigure the device's scenes and properties.
- If you have assigned your device an X10 address, try assigning a different X10 address or taking steps to identify and isolate electronics that may be generating powerline noise.

Using a controller, Dimmer Module will turn off but not turn on

Most likely, the Dimmer Module was linked to the controller with the load set to Off

Try this:

- Make sure the Dimmer Module's connected load is on and then re-link the device to your Insteon controller. This link will overwrite the previous "off" link.

Dimmer Module does not respond to button taps or controller links

A power surge or excessive powerline noise may have caused the module to unexpectedly stop responding.

Try this:

- Unplug Dimmer Module for 10 seconds and then reconnect the device to power. Test the local buttons to see if the load will turn on or off.
- While unusual, Dimmer Module may require a factory reset to restore normal operation. Follow the procedure outlined in Local Programming to reset the device to factory settings. You will be required to reconfigure the device's scenes and properties after the reset.

When using the connected lamp's switch, the load does not turn on

Your load may not be receiving power if the Dimmer Module is off.

Try this:

- Use the buttons on the side of the Dimmer Module to turn on the connected device. Remember, if the connected lamp is turned off using its own switch, Dimmer Module is unable to control the device.
- Check the bulb in your lamp. It is possible that your light bulb needs to be replaced.

Certifications and Warnings

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

This product is not designed or approved for use on powerlines other than 120VAC, 50Hz or 60Hz, single phase. Attempting to use this product on unapproved powerlines may have hazardous consequences.

- Use only indoors or in outdoor rated box
- 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 this product is as clear of clutter as possible.
- Each Insteon product is assigned a unique Insteon I.D., 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 device. **USER ASSUMES ALL RISKS ASSOCIATED WITH DIMMING AN INDUCTIVE LOAD.**

This device complies with FCC Rules and Industry Canada license-exempt RSS standard(s). 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 présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAUTION - To reduce the risk of overheating and possible damage to other equipment do not install to control a receptacle, a motor-operated appliance, a fluorescent lighting fixture, or a transformer-supplied appliance. Gradateurs commandant une lampe à filament de tungstène – afin de réduire le risque de surchauffe et la possibilité d'endommagement à d'autres matériels, ne pas installer pour commander une prise, un appareil à moteur, une lampe fluorescente ou un appareil alimenté par un transformateur.

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.

Cet appareil a été testé et s'avère conforme aux restrictions relatives aux équipements numériques de classe B, d'après l'article 15 des règlements du Conseil supérieur de l'audiovisuel américain (FCC). Ces restrictions ont été instaurées pour offrir une protection raisonnable contre les interférences nuisibles au sein d'une installation résidentielle. Cet appareil génère, utilise et peut émettre des fréquences radio et s'il n'est pas installé selon les instructions, peut nuire aux radiocommunications. Toutefois, rien ne garantit que des parasites ne surviendront pas dans une installation particulière. Si cet appareil cause des interférences nuisibles à la réception du téléviseur ou de la radio, ce que vous pouvez déterminer en ouvrant et en fermant votre appareil, nous vous invitons à essayer l'une des mesures correctives suivantes : • Réorientez l'antenne de réception installée sur l'appareil qui manifeste les parasites.

- Éloignez l'appareil du composant qui reçoit les ondes.
- Branchez l'appareil dans une prise de courant CA différente de celle du composant qui reçoit les ondes.
- Au besoin, consultez votre marchand électronique ou un technicien spécialisé dans le service des radios/téléviseurs pour des suggestions supplémentaires.

Product Warranty

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 866-243-8022 with the Model # and Revision # of the device to receive an RMA# and send the product, along with all other required materials to:

Insteon
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 of 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.