INSTEON®

Motion Sensor
Owner's Manual

Contents

Getting Started

Everything you need to quickly get up and running.

Device Overview

Set Button

Tap to send on/off commands to linked devices.

● On
● Off

Link: press & hold until LED blinks green.

Unlink: press & hold until LED blinks green. Press and hold again until LED blinks red.
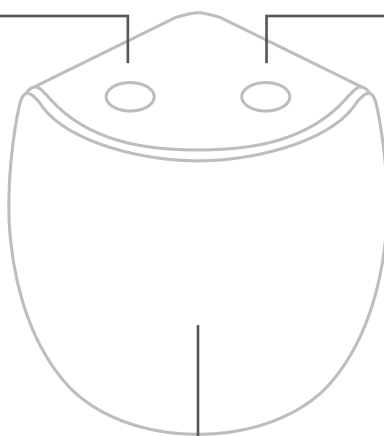
For more functions see Local Programming

Motion Override Button

Tap to toggle motion detection enable/disable. All other sensor features are not affected. Motion detection will automatically resume after 12 hours.

● Motion Enabled
● Motion Disabled

Status LED

● Motion Detected
● Error Controlling a Device
● Low Battery

Micro USB

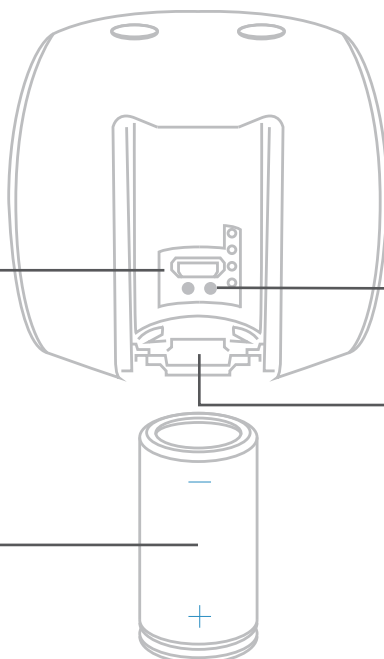Optional power through Micro USB (cable sold separately)

Sensitivity Jumper

Reduces range by ~10ft when covering both pins (off by default)

Battery Compartment Tamper Switch

Not Pictured

CR123A Battery

Depending on activation frequency, the battery should last 6 to 18 months

Motion Range Adjustment

Depending upon your application you may want to reduce the motion detection range. To do this will require a pair of needle nose pliers to access the jumper.

Just below the micro USB port there are two pins. From the factory a jumper is covering only one of the pins. This indicates full range is enabled.

Full Range:
Jumper only on one pin. This is the default setting from the factory.
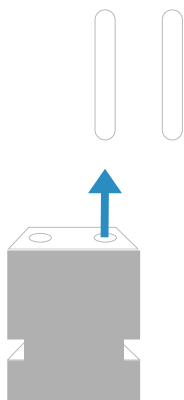
Reduced Range:
Installing the jumper across both pins reduces range by approximately 10 feet.
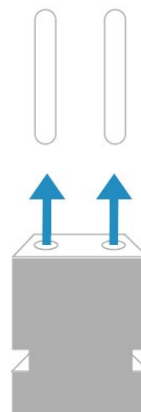
Battery

Remove the battery tab to
power Motion Sensor.

Micro USB Power

Motion Sensor can be powered using a
right-angled Micro USB Cable (2822-222) and
standard USB power adapter.

Mounting Options

Tabletop

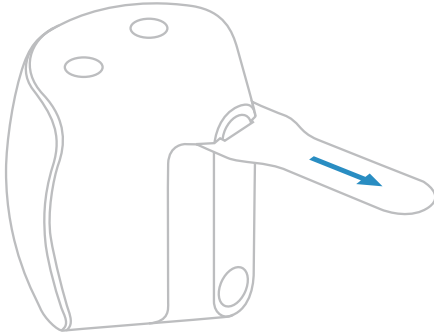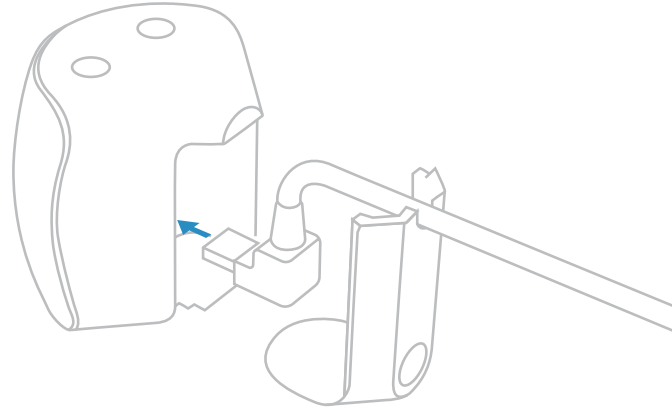To place Motion Sensor on a tabletop or other flat surface, leave the flat battery cover in place.
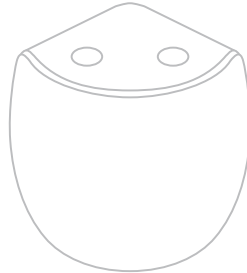
Corner Mount

To mount Motion Sensor in a corner, leave the flat battery cover in place and apply the two adhesive strips. Ensure the wall surface is clean before mounting. Motion Sensor must be unmounted when replacing battery. Adhesive strips are designed to be reusable for this purpose.
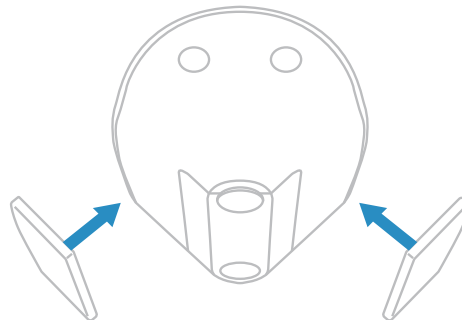
Flexible Mount

To precisely position Motion Sensor, slide off the flat back and install the flexible mount. Screw the mounting bracket to a solid surface and position the Motion Sensor as desired.
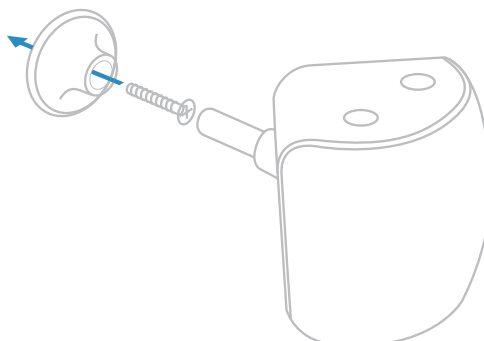
Basic Linking

Configure Insteon Motion Sensor without Insteon Hub; do not use these instructions if you intend to use Motion Sensor with Insteon Hub or other Insteon management software.

Control an Insteon Device with Motion Sensor

1 On Motion Sensor, press and hold the set button until its LED begins blinking green.
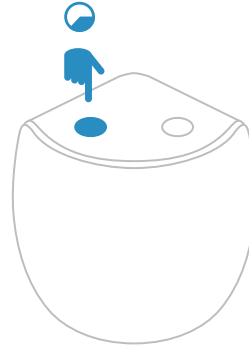
2 On the device that you would like Motion Sensor to control, turn on the device and adjust it to the desired brightness, if applicable.

3 Press and hold the set button until you hear a double-beep.*
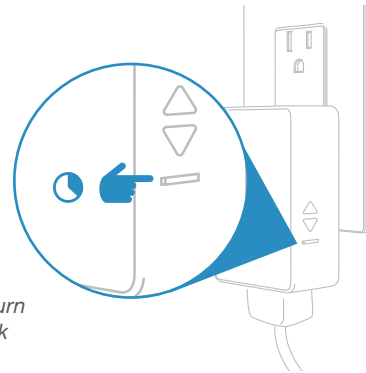
For Insteon bulbs, remove from power and then return to power. For devices that do not have a beeper, look for their status LED to flash and return to normal.

✓ Test Motion Sensor by tapping Motion Sensor's set button to simulate motion.

Control Multiple Insteon Devices with Motion Sensor
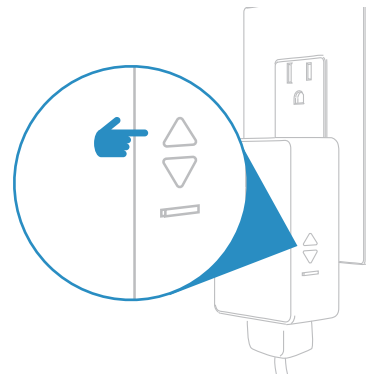
1 On Motion Sensor, press and hold the set button until its LED begins blinking green then tap the set button.

A   B

2 Adjust each device to their desired state: On, off, or brightness level if dimming.

50%   72%   30%   ON

Lamp 1   Lamp 2   Lamp 3   Appliance

3 One at a time, press and hold the set button on each device until it double-beeps.*
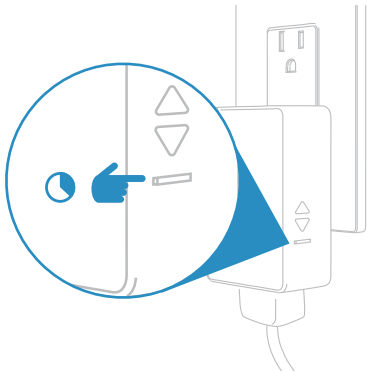
For Insteon bulbs, remove from power and then return to power. For devices that do not have a beeper, look for their status LED to flash and return to normal.

4 Tap the set button on Motion Sensor to exit multi-link mode.
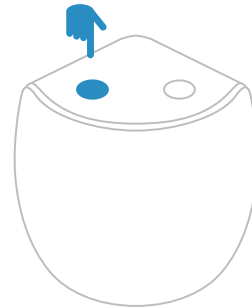
✓ Test Motion Sensor by tapping Motion Sensor's set button to simulate motion.
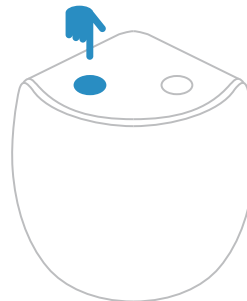
Removing Control of an Insteon Device From Motion Sensor

1 On Motion Sensor, press and hold the set button until its LED begins blinking green.

2 Press and hold the set button again until its LED begins blinking red.

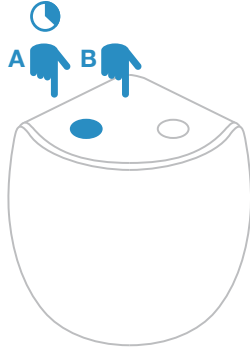**3** Press and hold the controlled device's set button until the device double-beeps.

For Insteon bulbs, remove from power and then return to power. For devices that do not have a beeper, look for their status LED to flash and return to normal.

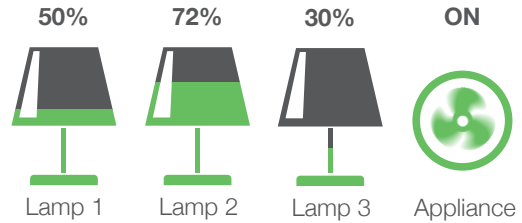✓ Test Motion Sensor by tapping Motion Sensor's set button to simulate motion.
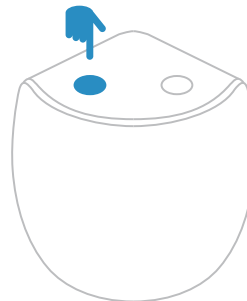
1 On Motion Sensor, press and hold the set button until its LED begins blinking green.
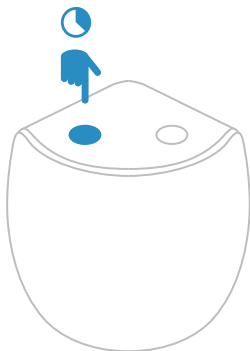
2 Press and hold the set button again until its LED begins blinking red then tap the set button.

A   B
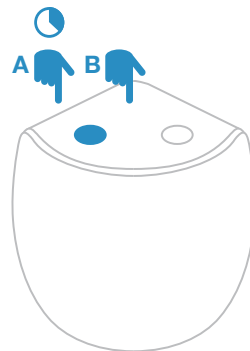
3 One at a time, press and hold the set button on each device until it double-beeps.*
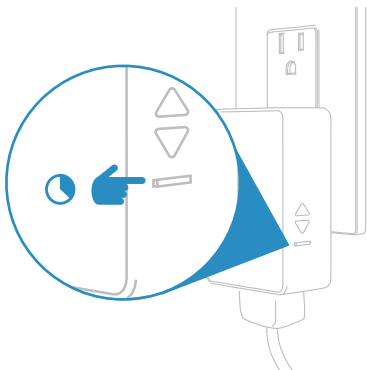
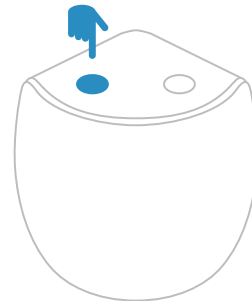**4** Tap the set button on Motion Sensor to exit multi-unlink mode.
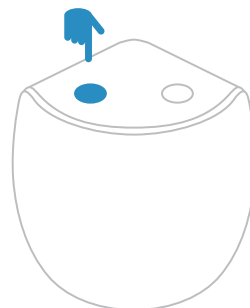
For Insteon bulbs, remove from power and then return to power. For devices that do not have a beeper, look for their status LED to flash and return to normal.

✓ Test Motion Sensor by tapping Motion Sensor's set button to simulate motion.
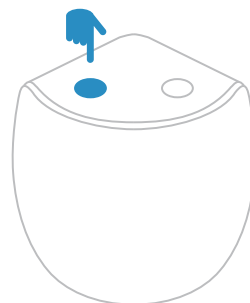
Insteon app for iPhone, iPad and iPod touch

Use the Insteon app to configure and control Motion Sensor.

Add to the Insteon Hub

iPhone, iPad and iPod touch
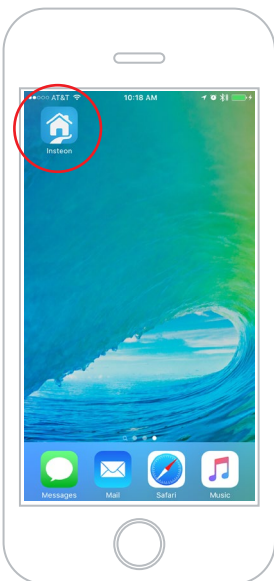
Launch the Insteon App
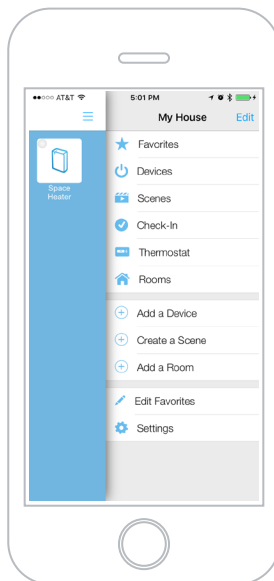
Tap the drawer icon or swipe from the right edge of the display to open the drawer
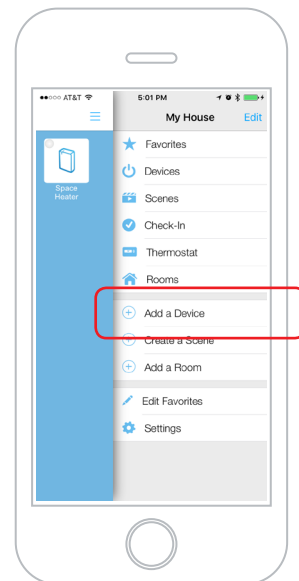

Tap Add a Device

When prompted, press and hold the set button on Motion Sensor until the device beeps then tap the set button
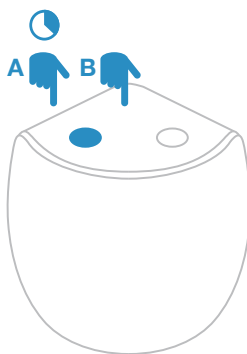
Tap Motion Sensor

✓ You can now manage Motion Sensor with the Insteon app.

Configure Motion Sensor

iPhone, iPad and iPod touch
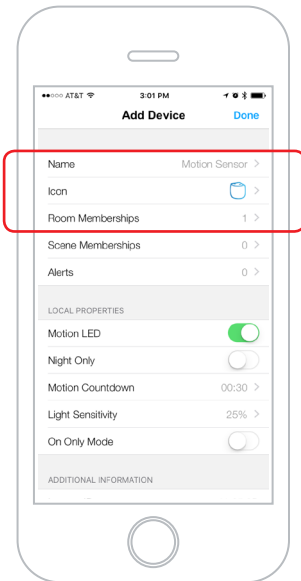
Optionally set a unique name, icon, and room membership (default room membership is Favorites)
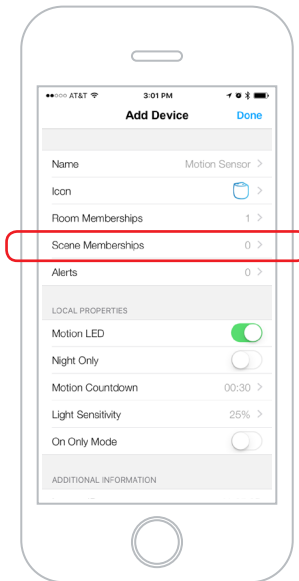
To make a Motion Sensor control another device, a scene must be created. Follow the next few steps first before creating a scene
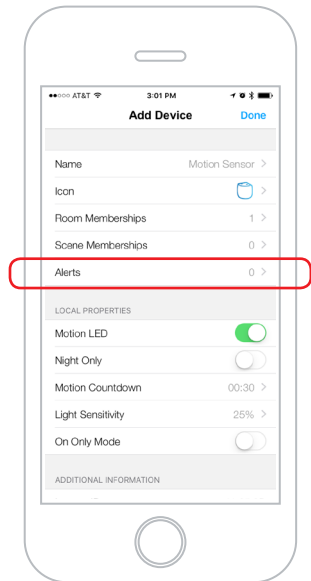
Tap Alerts to configure email and/or push notifications to be sent when Motion Sensor is activated
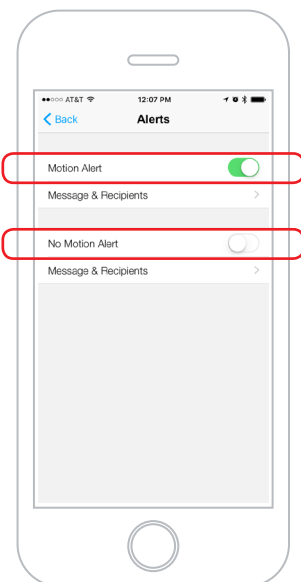
Motion Alert is sent when Motion Sensor sees motion. No Motion Alert is sent when Motion Sensor stops seeing motion and the countdown ends. To turn on an alert, be sure to enable it here.
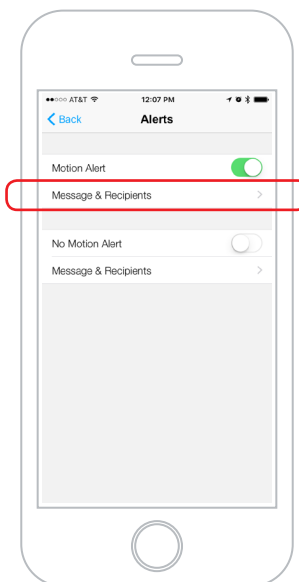
Tap on Message & Recipients under the alert you've enabled
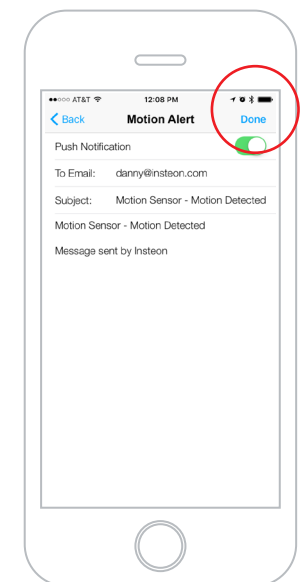
Tap in the field that you would like to edit. Separate multiple email recipients with a comma. When finished, tap Done.

Configure Motion Sensor
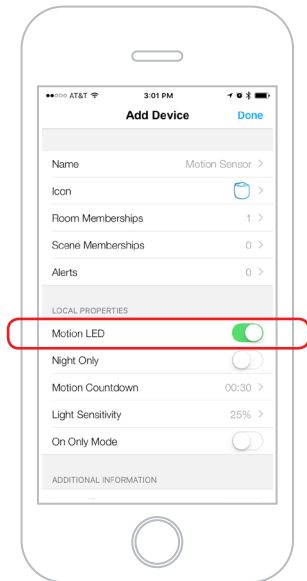
iPhone, iPad and iPod touch

Motion LED – This option turns off the light that flashes in the front of the Motion Sensor when it detects motion (It will still operate during setup)
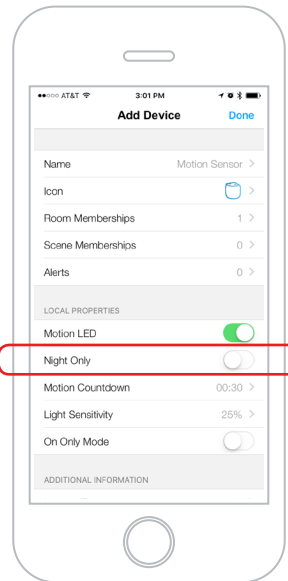
Night Only – Tells the Motion Sensor that you want it to work only at night
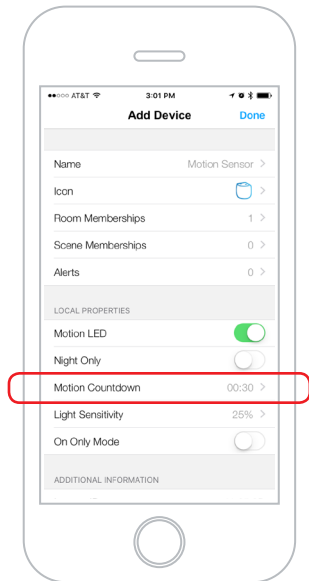
Motion Countdown – After motion stops the amount of time that the Motion Sensor will wait before telling linked devices to turn off

Light Sensitivity – How sensitive the Motion Sensor is to detecting light. The lower the number, the less light is needed for the Motion Sensor to detect daytime while the higher the setting, more light is needed for the motion sensor to read daytime.

On Only Mode – This mode causes the Motion Sensor to only send the "ON" command.Usefull for when you want to control when the lights (or other devices) turn off. Note that the status will always show active and if alerts are enabled, only Motion Alerts will be sent.

After making changes to properties, tap Done and follow the on-screen instructions to push those changes to the Motion Sensor

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Control a Device with Motion

iPhone, iPad and iPod touch

Tap the drawer icon or swipe from the right edge of the display to open the drawer
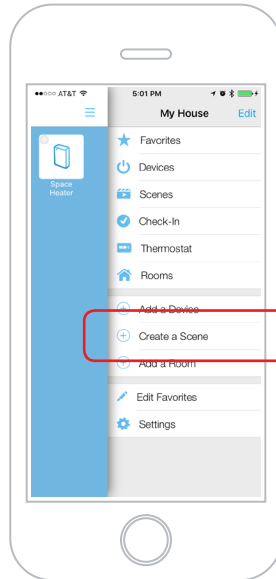
Tap Create a Scene
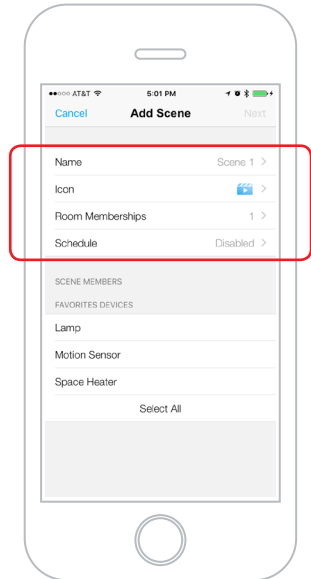
Give the scene a unique name and select icon and room memberships. It won't be necessary to create a schedule since you will be using motion as your controller.
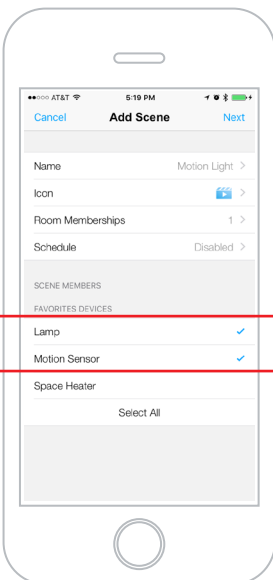
Select the Motion Sensor and any other devices that you would like the sensor to control
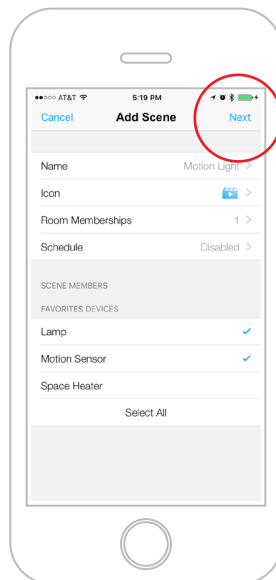
Tap Next
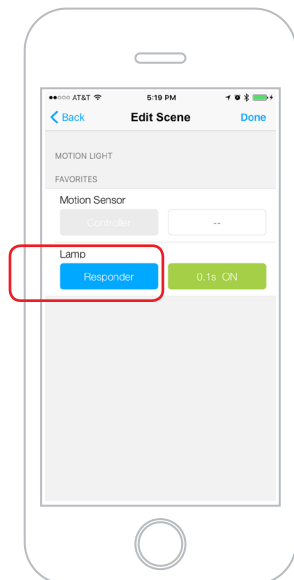
Ensure devices that you want to control are set as Responder

Control a Device with Motion
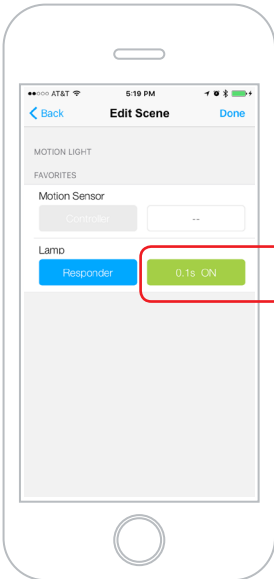
iPhone, iPad and iPod touch

To change how your devices respond tap the green button for each responder. Dimmable devices can be set to brightness level as well as fade on/off speed.
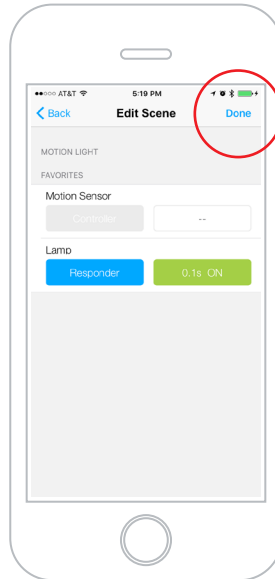
Tap Done to begin creating the scene
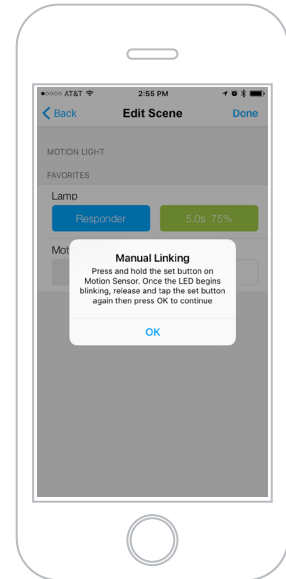
When prompted, press and hold the set button on the Motion Sensor
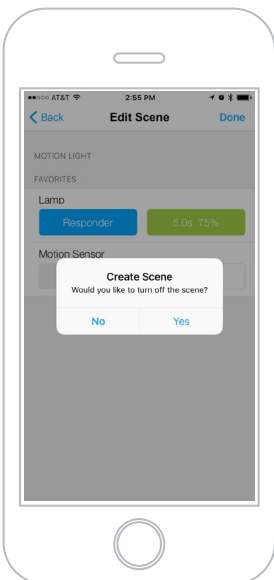
Tap Yes to turn off any devices that were turned on for the scene creation

✓ Your Motion Sensor is now configured to control a device.

Insteon app for Android

Use the Insteon app to configure and control Motion Sensor.

Add to the Insteon Hub
Android
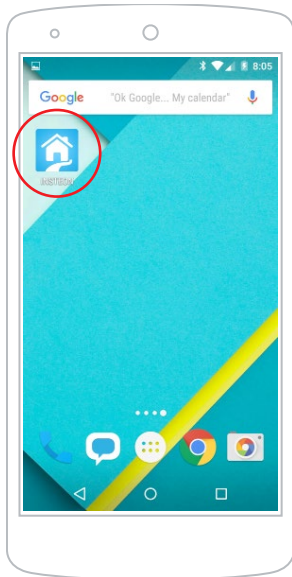
Launch the Insteon App
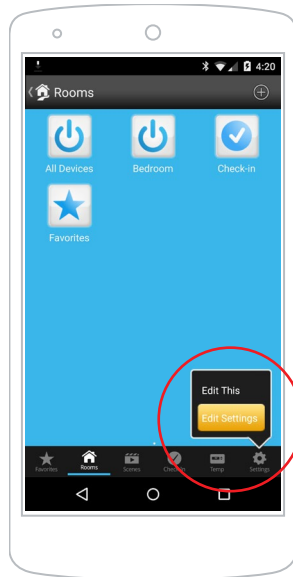
Navigate to Settings by tapping Edit Settings from the Settings button
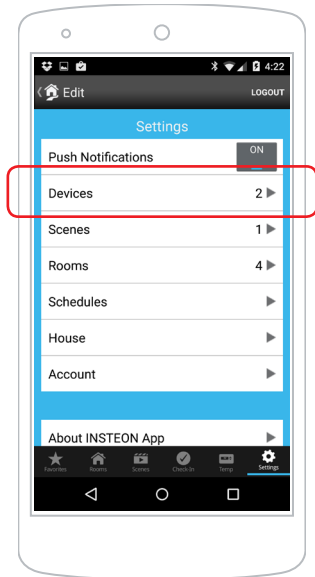
Tap Devices
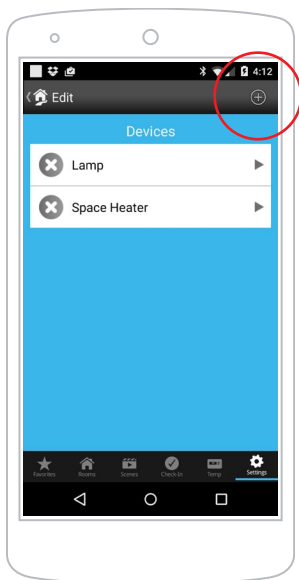
Tap the Add button
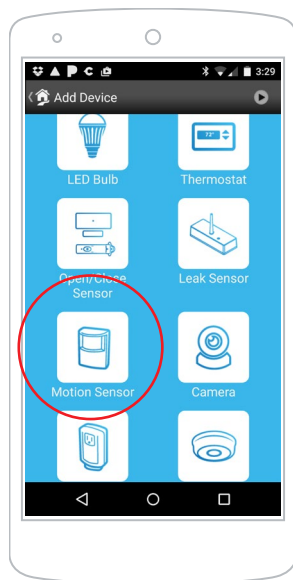
Tap Motion Sensor

When prompted, press and hold the set button on Motion Sensor until the device beeps then tap the set button
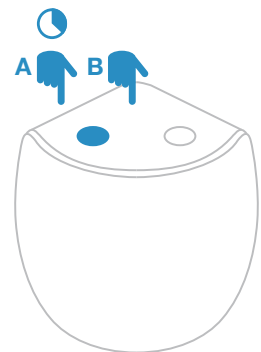
✓ You can now manage Motion Sensor with the Insteon app.

Configure Motion Sensor

Android
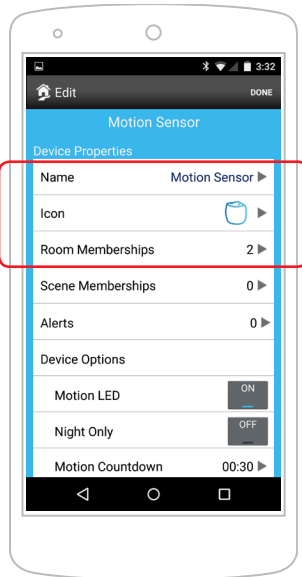
Optionally set a unique name, icon, and room membership
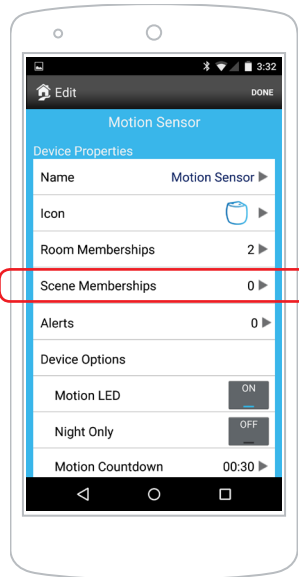
To make a Motion Sensor control another device, a scene must be created. Follow the next few steps first before creating a scene.
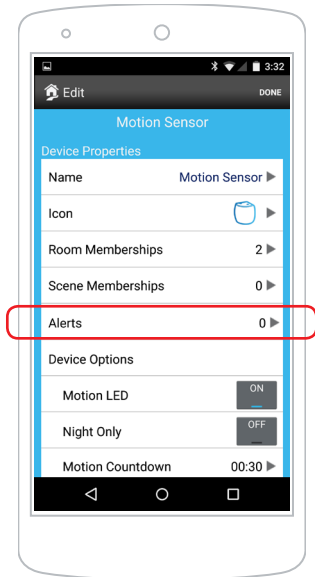
Tap Alerts to configure email and/or push notifications to be sent when Motion Sensor is activated
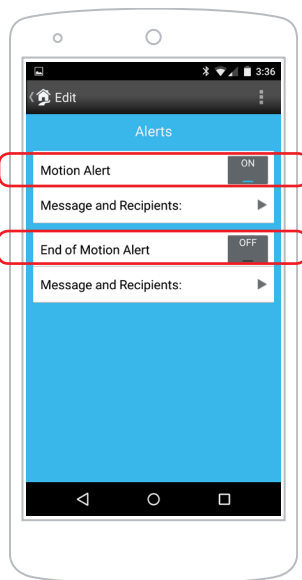
Motion Alert is sent when Motion Sensor sees motion. End of Motion Alert is sent when Motion Sensor stops seeing motion and the countdown ends. To turn on an alert, be sure to enable it here.
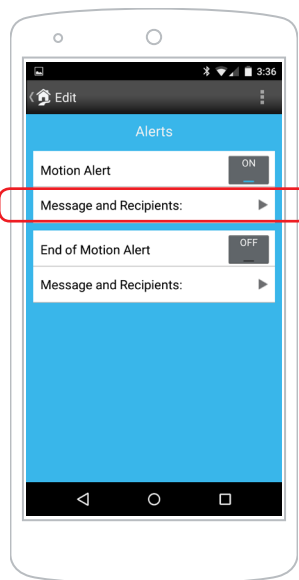
Tap on Message and Recipients under the alert you've enabled
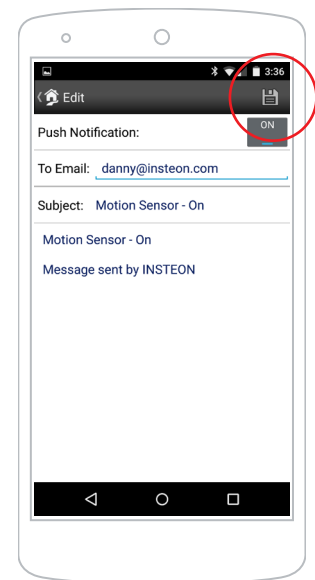
Tap in the field that you would like to edit. Separate multiple email recipients with a comma. When finished, tap save.

Configure Motion Sensor
Android
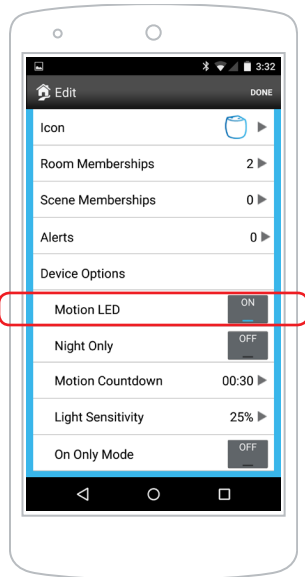
Motion LED – This option turns off the light that flashes in the front of the motion sensor when it detects motion (It will still operate during setup)
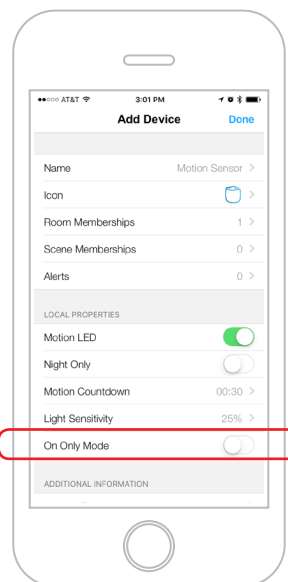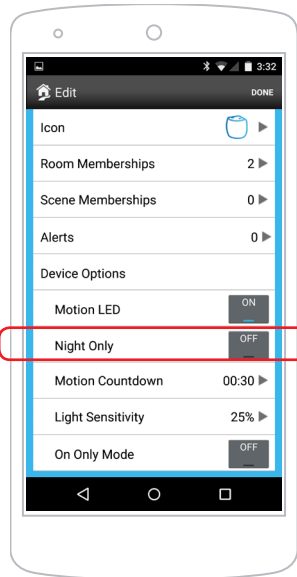

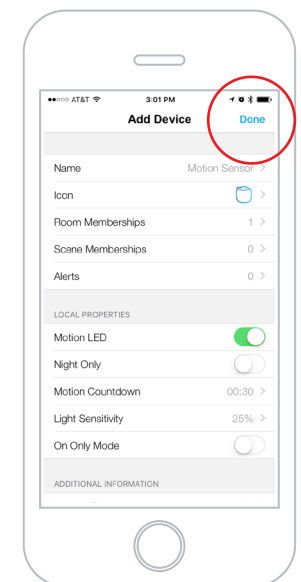**Night Only** – Tells the motion sensor that you want it to work only at night
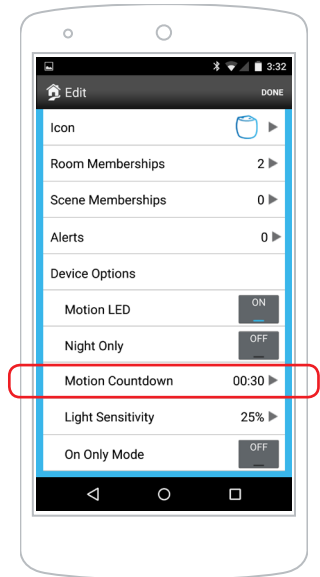
Motion Countdown – The amount of time that a motion sensor will wait before telling linked devices to turn off

Light Sensitivity – How sensitive the Motion Sensor is to detecting light. The lower the number, the less light is needed for the Motion Sensor to detect daytime while the higher the setting, more light is needed for the motion sensor to read daytime.

On Only Mode – This mode causes the Motion Sensor to only send the "ON" command.Usefull for when you want to control when the lights (or other devices) turn off. Note that the status will always show active and if alerts are enabled, only Motion Alerts will be sent.
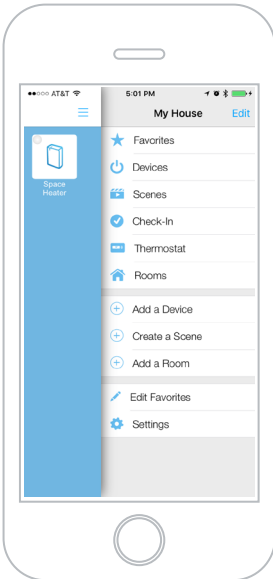

After making changes to properties, tap Done and follow the on-screen instructions to push those changes to the Motion Sensor

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Control a Device with Motion

Android

Navigate to Settings by tapping Edit Settings from the Settings button
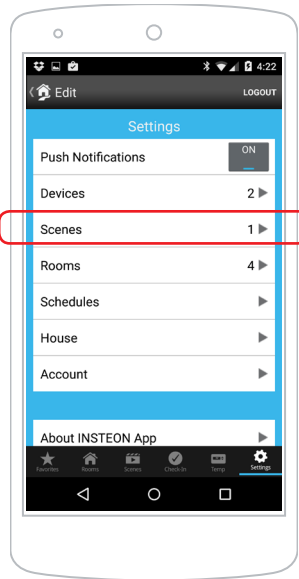
Tap Scenes
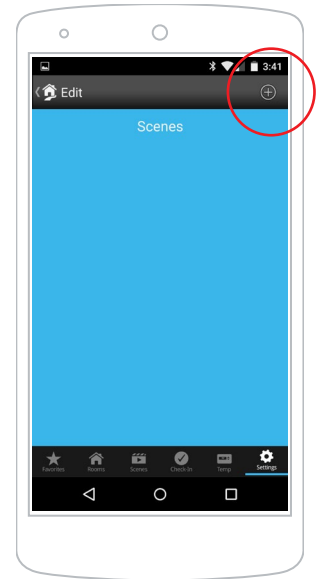
Tap the Add button
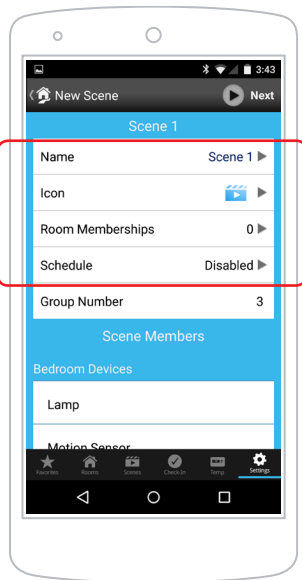

Give the scene a unique name and select icon and room memberships. It wont be necessary to create a schedule since you will be using motion as your controller.
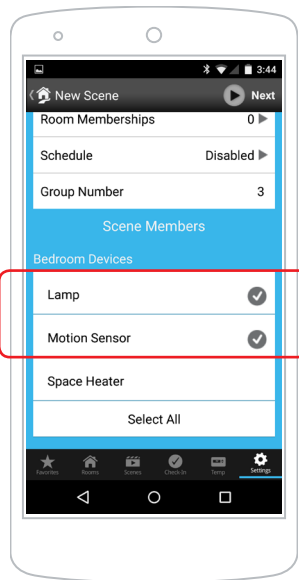
Select the Motion Sensor and any other devices that you would like the sensor to control
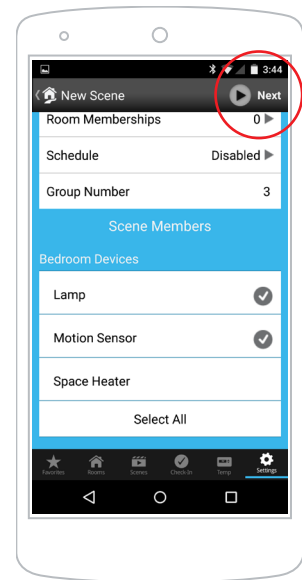

Tap Next

Control a Device with Motion

Android
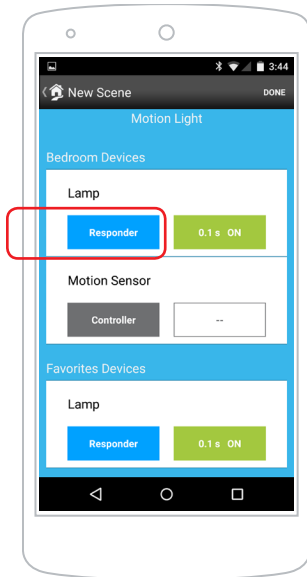
Ensure devices that you want to control are set as Responder. If it says Controller or Both tap the button to change it to Responder
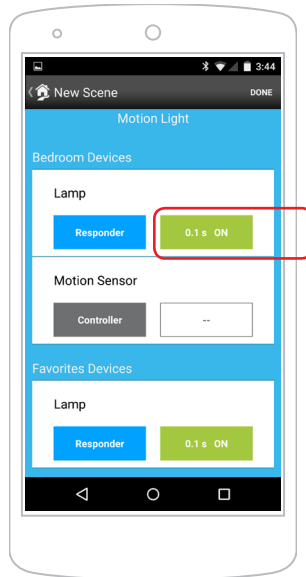

To change how your devices respond tap the green button for each responder. Dimmable devices can be set to brightness level as well as fade on/off speed.
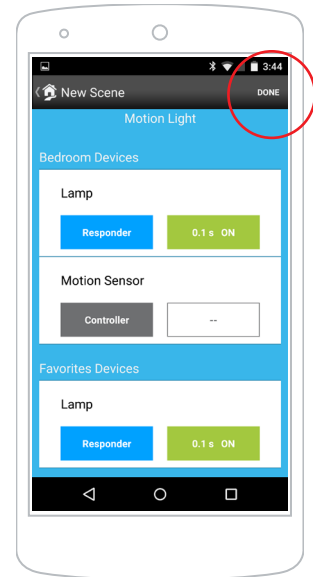
Tap Done to begin creating the scene
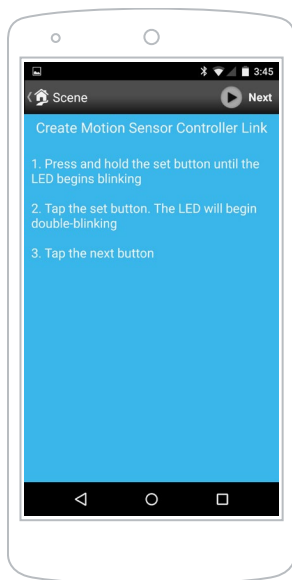
Follow on-screen instructions
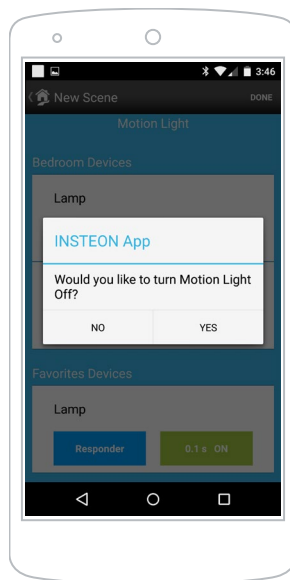
Tap Yes to turn off any devices that were turned on for the scene creation

✓ Your Motion is now configured to control a device.

## Local Programming

Use the local programming to link Insteon devices together with the set button.

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 four minutes or until the module's set button is tapped. After each successful link, the four minute counter is reset. Use this mode to manually create a scene.
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 unlinking.
Multi-Unlinking Mode	Allows the removal of multiple links from the Insteon device. The device will stay in unlinking mode for four minutes or until the device's set button is tapped. After each successful unlink, the four minute counter is reset.

At Rest → **Press** → Linking Mode → **Press** → Unlinking Mode

Linking Mode → **Tap** → Multi-Linking Mode

Unlinking Mode → **Tap** → Multi-Unlinking Mode

Multi-Linking Mode → **Tap** / Exit

Multi-Unlinking Mode → **Tap** / Exit
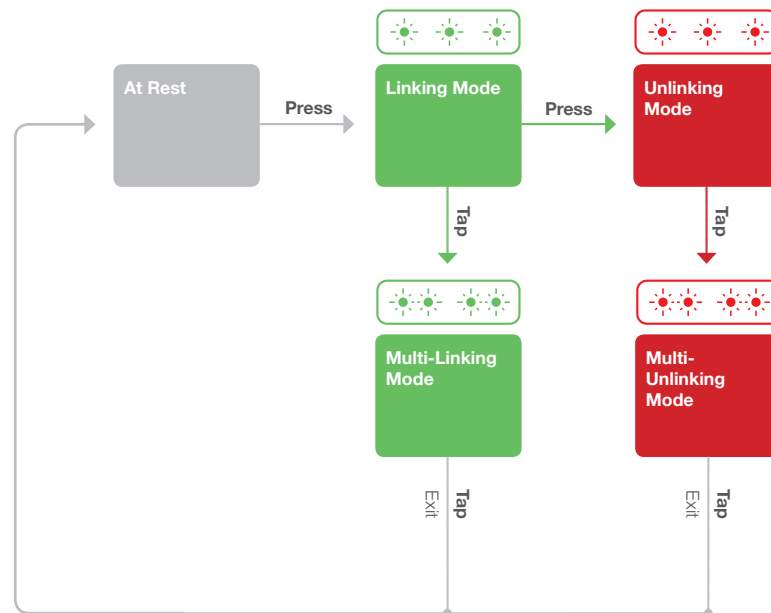
Factory Reset

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

Factory Reset

1 Slide off the battery cover and remove Motion Sensor's battery
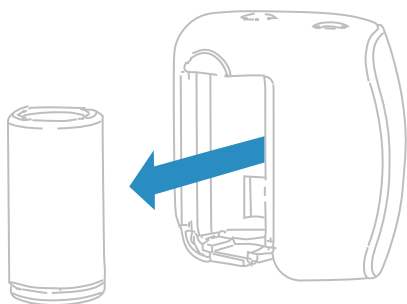
2 Simultaneously press and hold the set button while reinstalling the battery
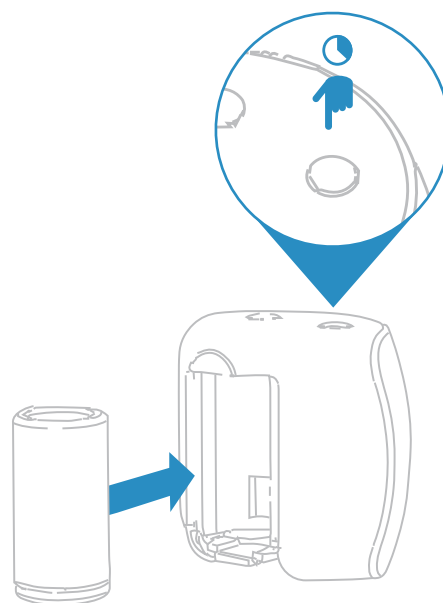
3 Continue holding the set button until Motion Sensor stops beeping
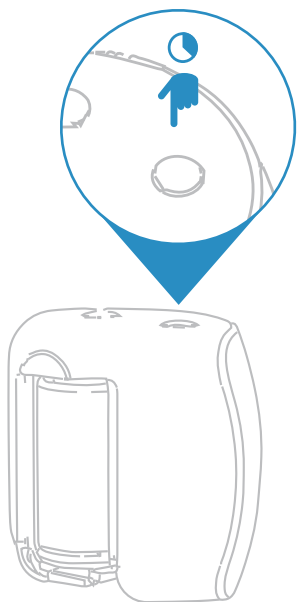
4 When the reset is complete, Motion Sensor will double-beep

✓ Motion Sensor has been restored to factory settings.

Appendix

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

Specifications

General

Available Colors	White
Brand:	Insteon
FCC ID	SBP28442
Industry Canada	5202A-28442
Manufacturer Product No.:	2844-222
Patent No.:	Protected under US and Foreign Patents (see www.insteon.com/patents)
UPC:	813922014723
Warranty:	2 years, limited

Operation

Audio Alert	Beeper
Setup Memory	Non-volatile EEPROM
Status LED	Red/Green/Amber LED
Motion Range	30 feet (9.15m), 90° arc. When jumper installed: ~20 feet (6m)

Insteon Features

Insteon Device Category	0x10
Insteon Device Subcategory	0x16
Insteon Links	27
Insteon Messages Repeated	No
Insteon Powerline Device	No
Insteon RF Device	Yes
Multi-Link Support	Yes
Multi-Unlink Support	Yes
RF Beacon	Yes
Radio Frequency	915.0 MHz
Radio Frequency Range	150 feet
Software Configurable	Yes

Mechanical

Dimensions	1.9" H x 2.13" W x 1.79" D 49mm H x 54.2mm W x 45.5mm D
Enclosure Material	UV stabilized plastic
Mounting	Tabletop, flexible mount or corner mount
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

Battery Type	CR123A
Battery Life	6 to 18 months, depending on usage
Supply Voltage	3.0V DC CR123A Battery or 5V DC Micro USB

Motion Sensor won't link to other Insteon devices

Your Motion Sensor may be out of range of a dual-band Insteon device or your network may be powerline-only.

Try this:
- If your Insteon network lacks any dual-band devices, add a Range Extender or other dual-band Insteon device near your Motion Sensor to bridge the Insteon RF and powerline networks.

- Motion Sensor must be placed within 100' of a dual-band device. Radio interference and building construction may reduce range. Relocate a dual-band device or add a Range Extender to increase RF coverage. Tip: when you quadruple tap the set button on a dual-band device and then trigger motion on the sensor (or tap the Motion Sensor set button) the sensor LED will flash in unison with the beeping of the dual-band device if it is within range.

Motion Sensor is not controlling linked devices

You were able to link to other Insteon devices but motion (or tapping Motion Sensor set button) isn't controlling them.

Try this:
- The Motion Sensor may not be able to see your motion. Try changing position/angle and try again.

- If you created the link without software/app you may have linked the device in the off state. Repeat the linking instructions and ensure that the device you are controlling is on before pressing and holding its set button.

- You may have disabled motion activation. Tap the Motion button on the Motion Sensor. If the LED flashes green, that means motion activation is enabled. If it flashes red, that means it is disabled.

- You may have Night Only mode enabled. If you want motion to activate at all times, change this within the Insteon app. If you do want to restrict motion activation only when dark, try adjusting the Light Sensitivity within the Insteon app.

- Motion Sensor may be on the fringe of your Insteon RF network. Add an additional Insteon dual-band device or Range Extender near Motion Sensor for improved RF and powerline signal bridging.

- Battery may be low. If you see amber colored LED flash on the Motion Sensor, replace the battery.

Status LED flashes rapidly after triggering Motion Sensor

This blinking indicates that Motion Sensor may have not received acknowledgment from one or more linked devices.

Try this:
- If you have removed any Insteon devices from your network that were previously controlled by Motion Sensor, unlink them from Motion Sensor. If the removed device is no longer available, use software to remove the link from Motion Sensor's link table or perform a factory reset to clear all links.

- Motion Sensor may be on the fringe of your Insteon RF network. Add an additional Insteon dual-band device or Range Extender near Motion Sensor for improved RF and powerline signal bridging.

Status LED does not flash OR is amber colored when the set button is tapped or when the motion is detected

Your Motion Sensor's battery may be low and require replacement.

Try this:
- Replace with a new battery.

Looking for more information?
Visit www.insteon.com/get-started-2844-222

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

- Each Insteon product is assigned a unique Insteon ID, which is printed on the product's label.

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 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.

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.

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
1621 Alton Parkway, Suite 100
Irvine, CA 92606

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.