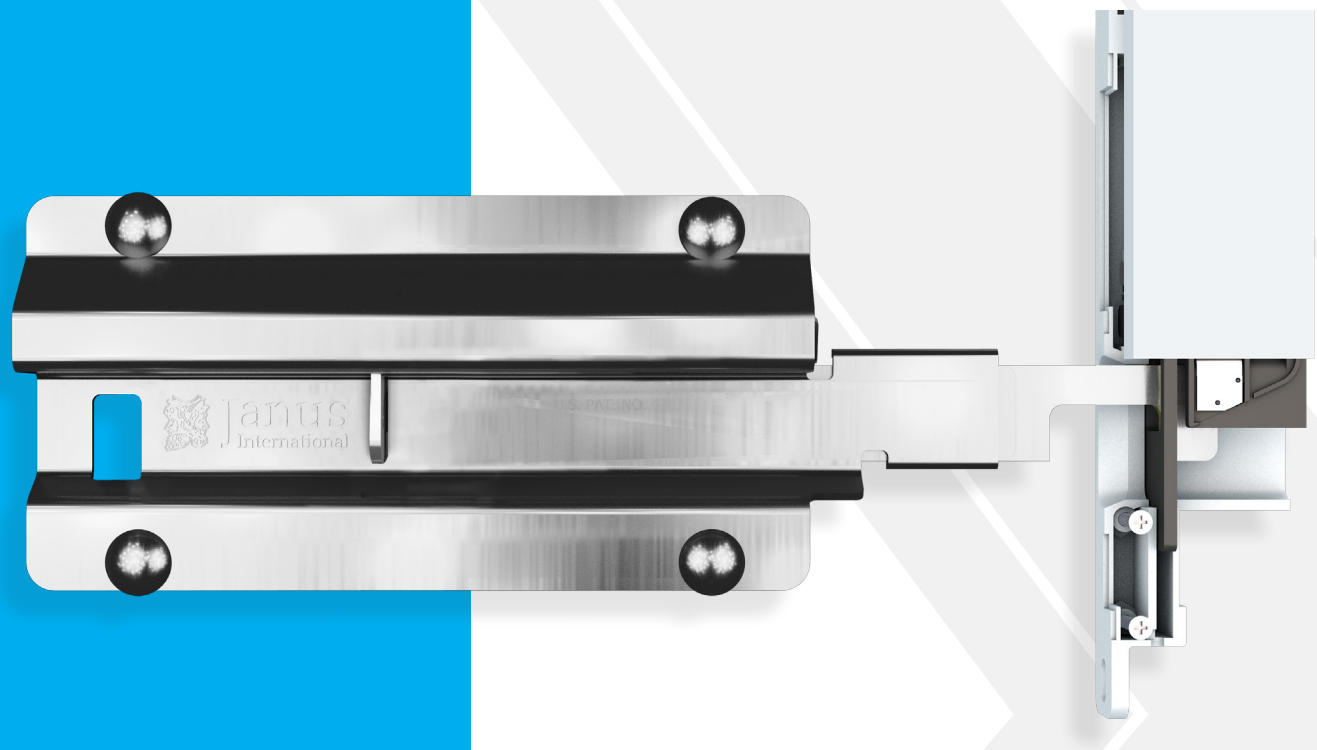
nokē ion
no key. no problem.
BY JANUS INTERNATIONAL

SCAN FOR PDF



NOKĒ ION
INSTALL GUIDE

Nokē Ion

Install Guide

Nokē Ion Install Guide *(Internal Use Only)*

Revised 10/22/24

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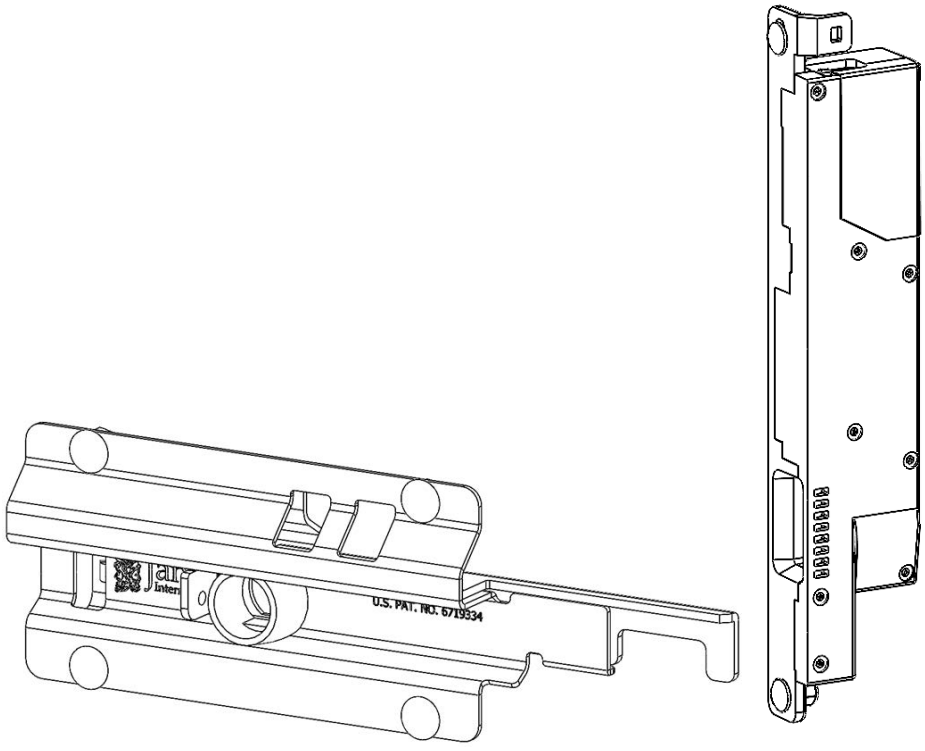
Introduction

The Nokē Smart Entry (NSE) system has two main hardware parts when installed on a standard roll up door: a wired Nokē Ion Lock Body, which is mounted inside the storage unit on a door rail, and a Notched Sliding Latch, which is mounted on the outside of the unit's door. These two pieces are aligned so that the Lock Body will catch and secure the Notched Sliding Latch when locked.

The Nokē Ion system offers optional peripheral attachments, including an optional wall-mount RGB LED status indicator light, and an in-unit Motion Detector. The Nokē Ion Lock Body requires a standard 12Vdc power source when connected to the PIR Motion Sensor; otherwise, if there is no motion sensor connected then the Nokē Ion will accept power inputs from 12Vdc to 24Vdc.

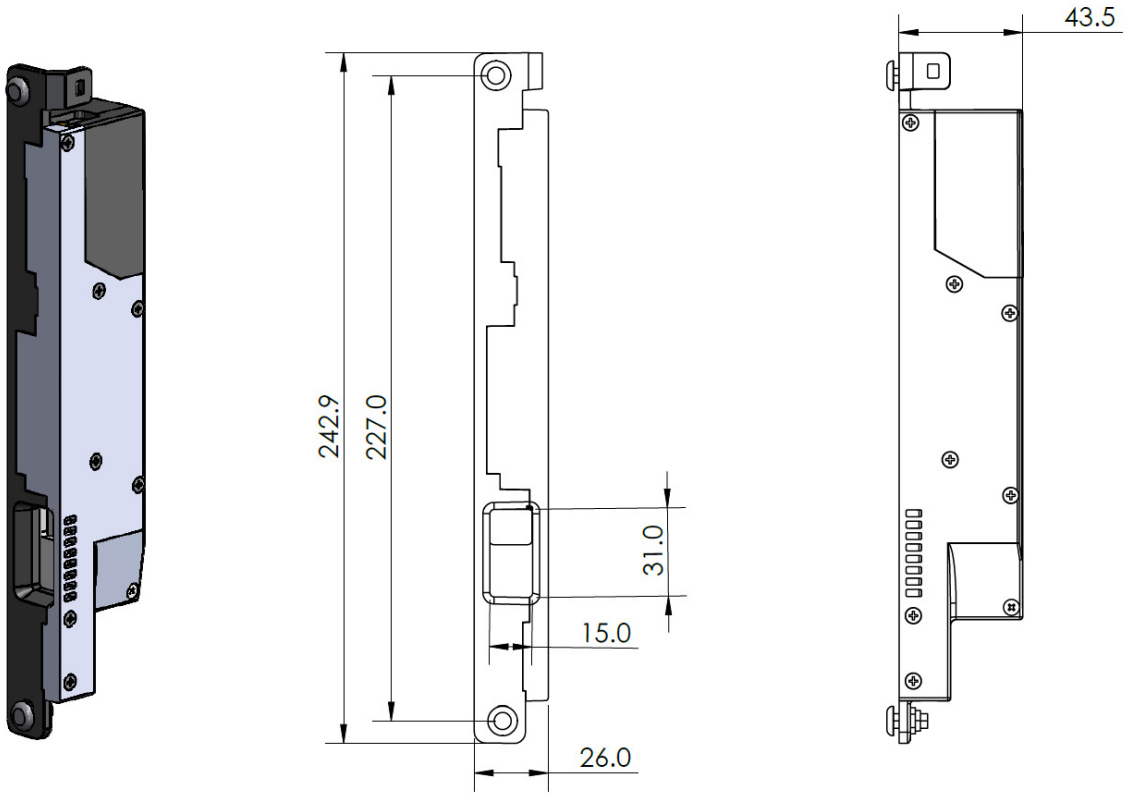
Nokē Ion locks automatically form a secure wireless mesh network to ensure reliable communication. Nokē gateways strategically located throughout the facility connect this wireless mesh network to Nokē's encrypted cloud servers. The Nokē Ion locks pass activity logs from one lock to the next until a Nokē gateway is within signal range, and then the information is sent back through the cloud.



Notched Sliding Latch and Nokē Ion Lock Body

Dimensions

1.02in. x 1.71in. x 9.56in. (26.0mm. x 43.5mm. x 242.9mm)



Material: Chrome Plated Zinc and ABS Plastic

Connectivity: Bluetooth enabled, Wirepas

Power: 12V - 24V DC with 20mA standby current

Lock Activation: 200mA

Operating Temperature: 14°F to 122°F (-10°C to 50°C)

Water Resistance Rating: N/A

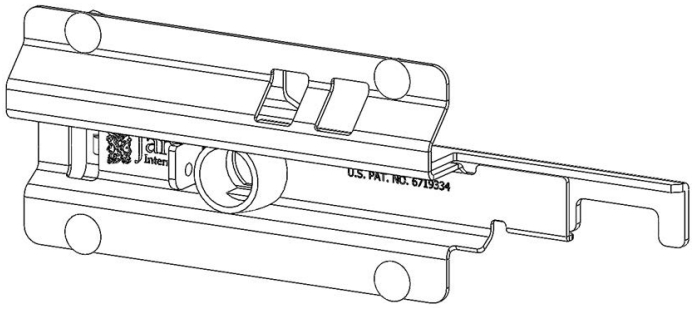
Alerts: Audible sounds with optional multi-color LED Locked/Unlocked/Updating indicator light.

Audible Indicator:
- When the Ion lock chirps **once**, it is locked.
- When the Ion lock chirps **twice**, it is unlocked.
- When the Ion lock chirps **every 5 seconds for 30 seconds**, it is stuck or not properly engaged.

LED Indicator:
- Red LED = Locked
- Green LED = Unlocked
- Blue LED = Updating Software

Installing the Notched Sliding Latch

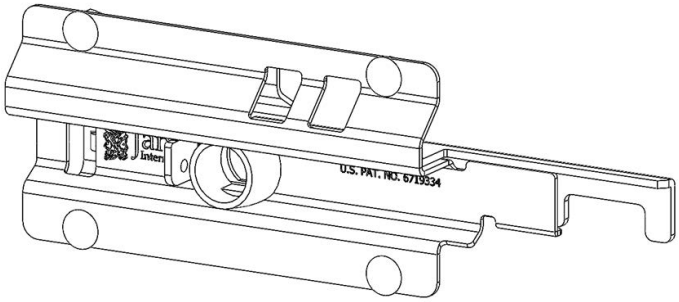
If you are doing a retrofit installation, make sure to remove the standard Janus sliding latch from the door before installing the notched sliding latch and Nokē Ion lock body. (Available in left or right-handed versions.)



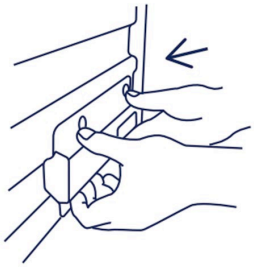
Left-hand (Part #200460-0001) and Right-hand (Part #200460-0000) Right-hand version is displayed.

To install the notched sliding latch,

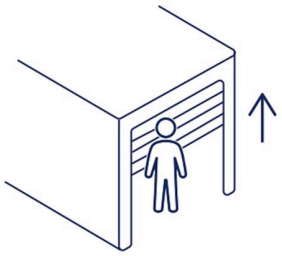
1. Switch out the standard sliding latch with either the right or left-handed notched sliding latch. **Caution:** Ensure that the notch on the sliding latch is facing down towards the floor so that the locking apparatus within the Nokē Ion lock body can move up and into the notch to lock the door.



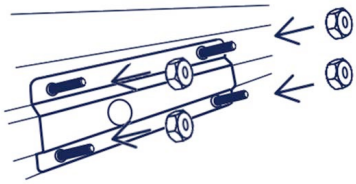
2. Replace the notched sliding latch on the door, and then reinsert the four bolts into the existing holes.



3. Partially open the door enough to enter the unit, and then pull the door back down to view the back of the sliding latch assembly.



4. Secure the latch with the four lock nuts. Tighten the nuts with an impact driver.



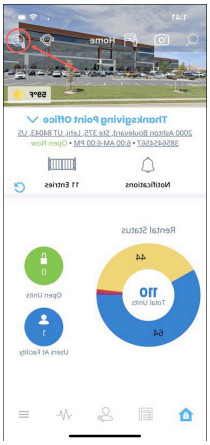
5. Step on the door handle to compress the astragal and establish the locking height of the door. If the slide inserts freely, and the slide is registered by the top of the guide rail hole when the foot is removed from the astragal, then this hole is positioned well. If the slide does not slide correctly, make a clean modification to the hole to assure easy operation of the slide. Be careful not to cut the guide rail opening too high, as this will weaken the door latch and will complicate installation of the Nokē Ion Lock body.
6. Continue to the next section.

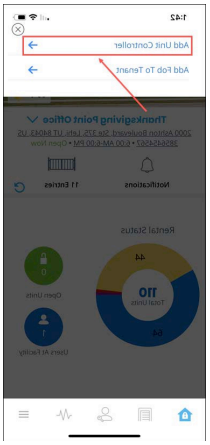
Adding the Lock to the NSE System

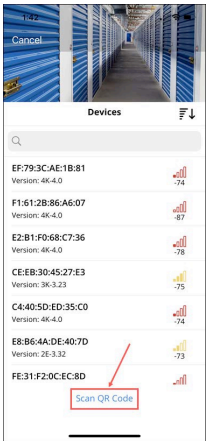
Add the lock to the NSE system via the Nokē Storage Smart Entry manager's mobile app.

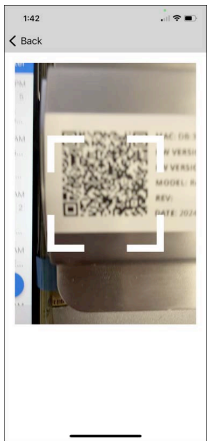
To add a lock,

1. Open your Nokē Storage Smart Entry manager's mobile app, and then tap **+** (top-right corner).
2. Tap **Add Unit Controller**.
3. From the **Devices** screen, tap **Scan QR Code**. Or, scroll through the list of available devices and tap on the device with the strongest Bluetooth frequency.
4. Hover over the **QR Code** to advance to the next screen.

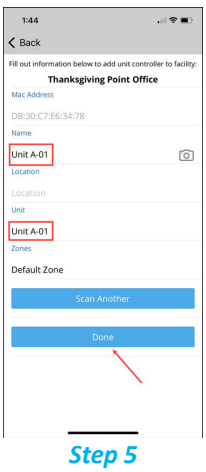


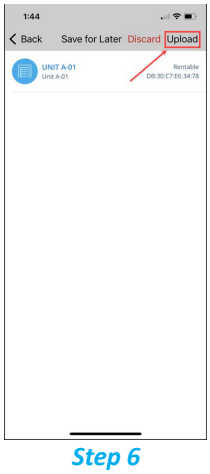


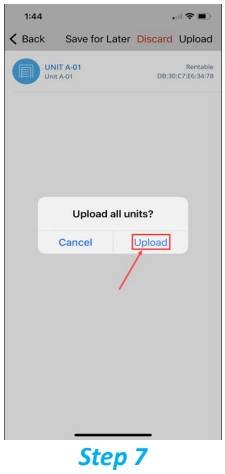


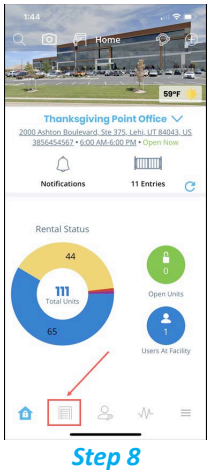


5. Complete the **Name** and **Unit** fields with matching text, and then tap **Done**. (e.g., **Unit A-01**)
6. Tap **Upload** to add the Nokē Ion lock to the NSE system.
7. From the **Upload all units?** pop-up, tap **Upload** again to confirm.
8. Tap the **Units** icon at the bottom of the screen.

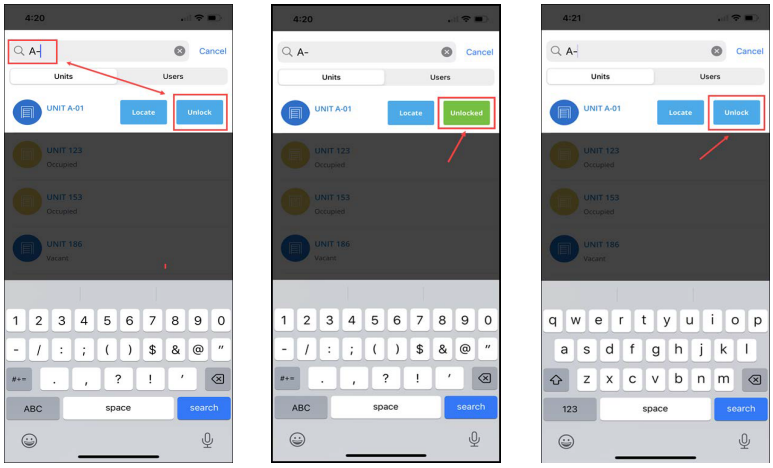








9. Enter the **Unit** name in the **Search** field to locate the unit, and then tap **Unlock**.
10. Slide the latch to close the unit.
11. Confirm the lock is closed.



Step 9 ***Step 10*** ***Step 11***

12. Continue to the next section.

Installing the Nokē Ion Lock

Installing the Wirepas Antenna

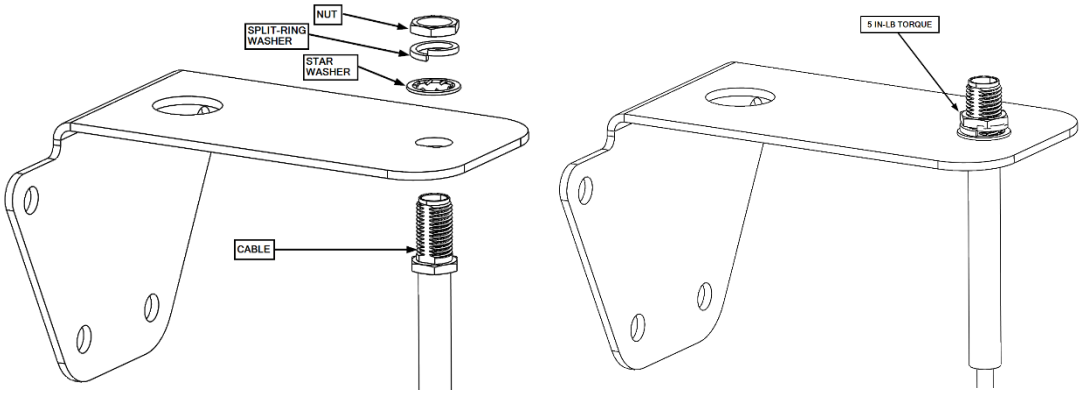
Option 1: Interior storage units or Exterior storage units with LoS between unit interiors

The Wirepas antenna is an accessory that must be mounted at the top of the door frame. Antennas perform best when they have Line of Sight (LoS) to each other to form a strong mesh network.

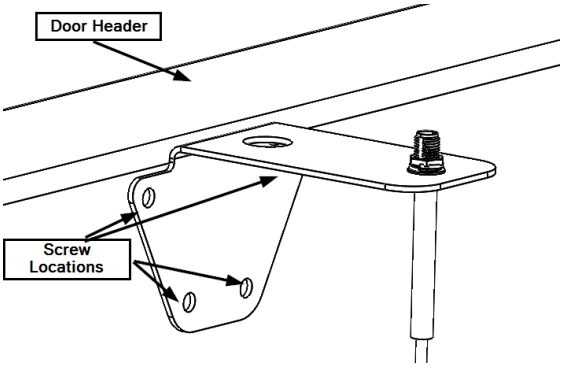
Before starting the installation, ensure that the length of the antenna cabling is sufficient to reach the Nokē Ion lock body inside the unit. Additionally, allow for some extra space to neatly bundle any excess power supply and antenna cables at the top of the door header, securing them with the provided zip ties. This approach will create a tidy and professional appearance, reducing the risk of tenants inadvertently snagging cables while moving items in and out of their units.

To install the antenna,

1. Mount the SMA Cable to the opening in the antenna bracket. Note, this opening is keyed with a flat section that corresponds to a flat on the SMA threaded section. Place the Star Washer followed by the Split Ring Washer, and then the Nut. Tighten the nut with 5 in-lb of torque.

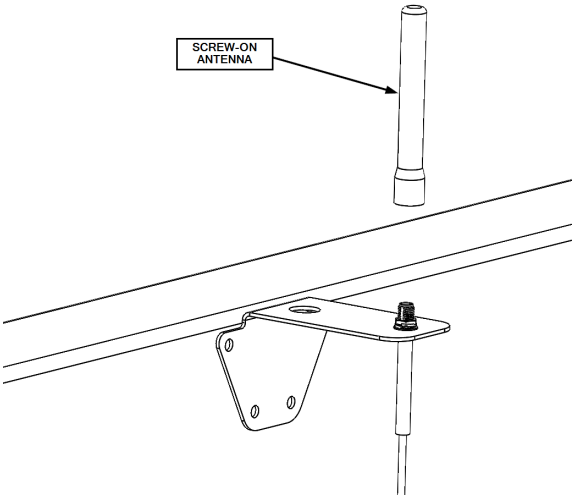


2. Mount the antenna and bracket onto the door header and secure it with at least 2 self-tapping screws making sure not to damage any existing wiring. Note: the top of the bracket should closely align with the top of the door header.



3. Feed the antenna cable down along the guide rail and attach to the guide rail as needed to keep cable secure.

4. Attach the Screw-On Antenna to the SMA Connector. Tighten with 5 in-lb of torque. *!Do NOT Overtighten!*



5. The cable will be run to the Nokē Ion Lock Body in the following section. Continue to the next section to finish the mounting process.

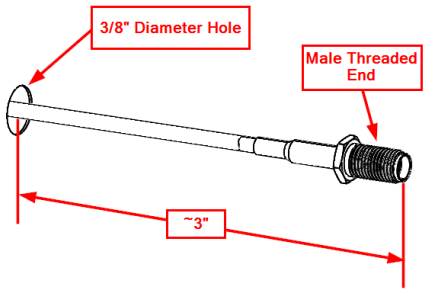
Option 2: Exterior storage units with no LoS between unit interiors

The Wirepas antenna is an accessory that must be mounted at the top of the door frame. Antennas perform best when they have Line of Sight (LoS) to each other to form a strong mesh network.

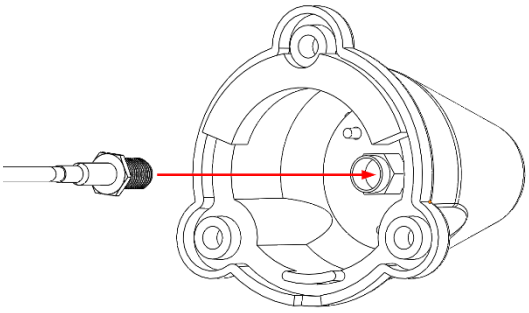
Before starting the installation, ensure that the length of the antenna cabling is sufficient to reach the Nokē Ion lock body inside the unit. Additionally, allow for some extra space to neatly bundle any excess power supply and antenna cables at the top of the door header, securing them with the provided zip ties. This approach will create a tidy and professional appearance, reducing the risk of tenants inadvertently snagging cables while moving items in and out of their units.

To install the antenna,

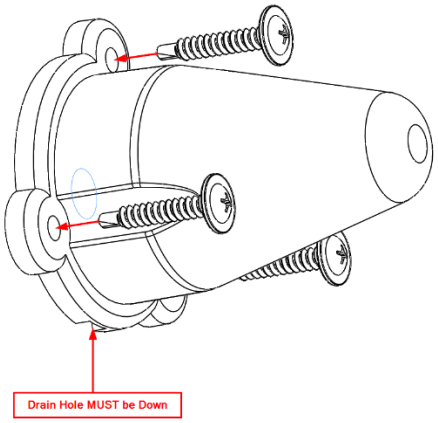
1. Drill a 3/8” Diameter Hole through the exterior wall where the antenna should be mounted (do we want to specify these distances like we did with the LED assembly??) Feed the correct length of Male Threaded end of the SMA cable through the hole (approximately 3”).



2. Connect the Male Threaded end of the SMA Cable to the External Antenna as shown below. Tighten to 5 in-lb of torque. Tuck excess cable back into the hole.



3. Mount the External Antenna cover to the wall using 3 screws (Sheet Metal or Concrete Anchors). Make sure the Drain section of the design is facing down and the Foam Gasket is on the top.



4. The cable will be run to the Nokē Ion Lock Body in the following section. Continue to the next section to finish the mounting process.

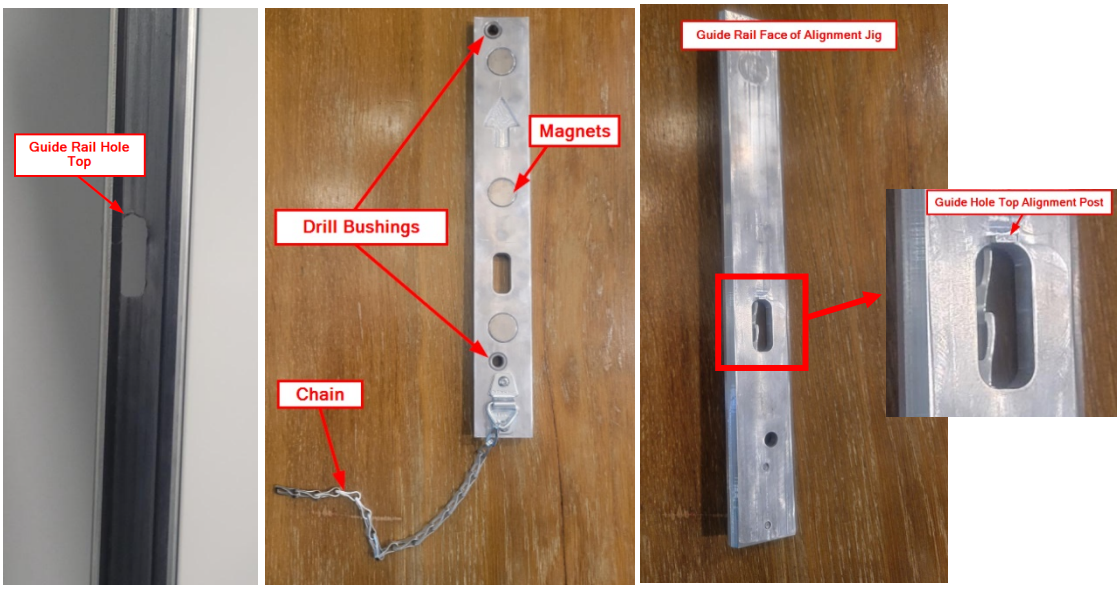
Installing the Nokē Ion Lock Body

The Nokē Ion lock body bolts to the inside of the unit on the door rail. It's important to align the sliding latch correctly with the lock so as not to damage the lock itself when opening and closing the door.

Preferably this is a one-person process using an alignment jig. The alignment jig is designed for a standard size 650 Janus guide rail using a standard hole. If the door being installed is not this configuration, the installer may need to use a two-person installation method with one installer inside and another outside.

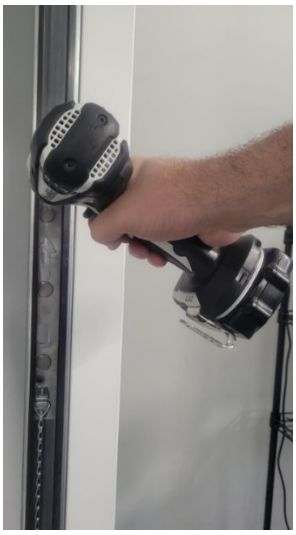
To install the lock,

1. Key components for using Alignment Jig

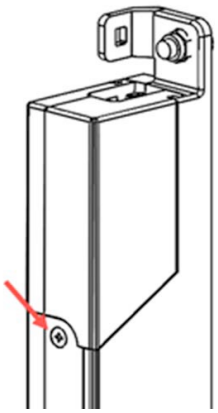


2. Open the door and insert the Alignment Jig into the Guide Rail. Place in the railing so the Alignment Post is INSIDE the Guide Rail Hole. Slide the jig all the way to the left (for a Right-Hand door installation) so the edge of the jig sits against the edge of the guide rail that is the furthest INSIDE the unit. Then, pull the chain and slide the jig UP so the Alignment Post sits against the TOP of the Guide Rail Hole.

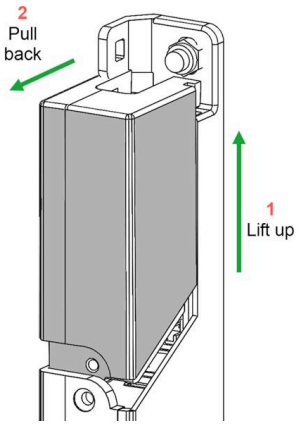
3. The jig is now in position to drill the Nokē Ion Mounting Holes for the two **M5** Carriage Bolts. Use a **17/64"** drill bit and position inside the Bushings in the Alignment Jig and drill your **two** holes. While drilling, make sure the Alignment Jig is staying positioned correctly and not shifting.



4. Use the chain on the jig to help remove from the Guide Rail. On the backside of the guide rail, remove any metal shaving and burrs so that the Nokē Ion lock body can seat firmly against the door rail.
5. To remove the **Wiring Cover**, extract the screw on the Nokē Ion lock using a **T10 Torx Security** bit.

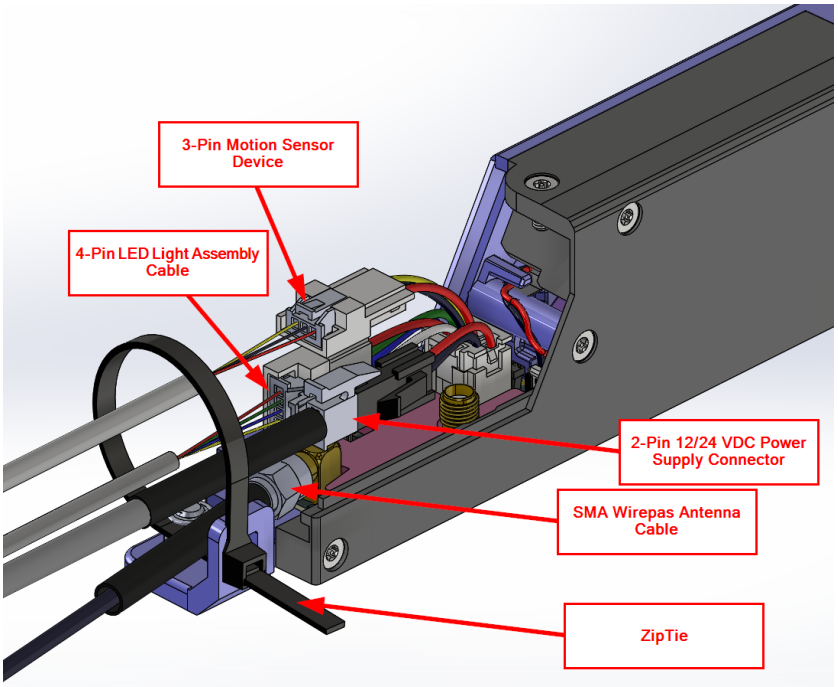


6. Lift up on the **Wiring Cover** and pull back to remove it from the Nokē Ion lock body.



7. Align the lock over the drill holes and insert the **M5** carriage bolt into the bottom hole and loosely tighten. This temporarily holds the lock in place which lets you easily attach the *power supply*, *Wirepas antenna*, and *cables* out in the open.

8. Plug the **2-Pin 12-24VDC Power Supply Connector** into the harness.
Caution: Avoid applying excessive pressure when making connections as they are intended to fit in a specific orientation.



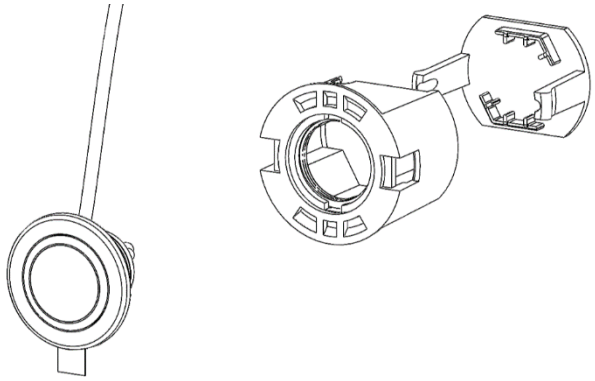
9. **Optional:** Plug the **4-Pin LED Light Assembly** into the harness. (See Installing the LED Light Assembly (Optional) on page 1414.)

10. **Optional:** If you are installing **Interface Module**, you will need to remove the Nokē Ion Wire Harness from the **10-Pin Connector** so you will be able to plug in the **10-Pin to 10-Pin Extender Cable w/ LED Breakout**. (See Installing the Interface Module (Optional) on page 1616.)
11. Attach the **SMA antenna cable** into the harness and tighten. Do not exceed 5 in-lbs torque
12. Rotate the Nokē Ion lock body up and into place on the door rail and insert the **M5** carriage bolt into the top hole and tighten it enough to stay securely in place so that you can test to ensure that the latch goes smoothly in and out of the latch opening.
13. Tighten up both **M5** carriage bolts.
14. Seat the wire cover back into place, and then insert and tighten the screw to secure it in place.
15. Secure the zip-tie around the wires and through the **Wire Tie Lanyard Hole** as shown above, cinch it up, and then clip the excess plastic from the wire tie.
16. Exit the unit and close the unit door.
17. Slide the notched latch into the Nokē Ion lock body to lock the door.

    Caution: You do not want the weight of the door to be resting on the Nokē Ion lock opening.
18. Continue to the next sections, if you are installing the **LED Light Assembly, Motion Sensor** or the **Interface Module**.
19. If not, you are finished with the installation procedures.
20. Continue to the **Testing the Locks** section on page 2424**.**

Installing the LED Light Assembly (Optional)

The 4-pin LED light assembly is an optional installation that requires drilling through the door frame. It is only used to indicate the status of the lock: Locked/Unlocked/Updating. Before you begin installing the LED light, it is important to measure and mark the height on the door frame where you will drill the 1" OD access hole centered 50" above finished floor (AFF) and 3" from the edge of the door opening on the door jamb. This will ensure that the LEDs are uniformly placed throughout the installation for the facility.

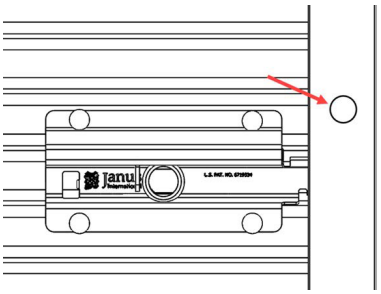


LED Light Assembly

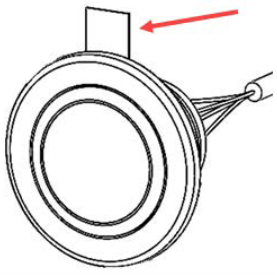
To install the Status LED

OPTION 1: Sheet metal frame building

1. Mark and drill the **1"** OD access hole for the LED light assembly into the face of the door frame centered at 50" AFF (Above Finished Floor) and 3" from the door opening on the door jamb. Clean any debris or burrs.

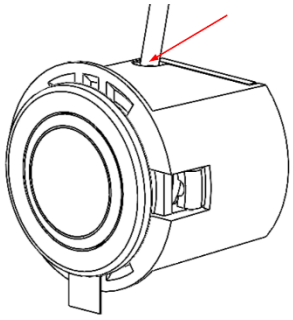


2. Remove the protective backing from the **LED light assembly** to expose the foam sticker on the backside of the light assembly.

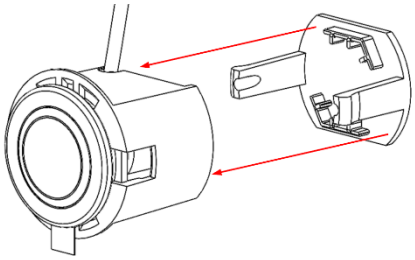


3. From the outside of the door, feed the **4-pin cable** through the drill hole and secure the adhesive pad to the door frame.

4. From inside the unit, remove the **back cover** from the LED housing, and then feed the threaded nut end over the 4-pin wiring and carefully twist it onto the threaded LED light until it is hand tight.
5. Secure the 4-pin wiring into the **notch** on the LED housing so that you can replace the back cover on the housing. Note: the two notches are slightly different sizes to accommodate minor cable variations.



6. Snap the back cover onto the housing with the tab covering the notch where the 4-pin wiring exits the housing.

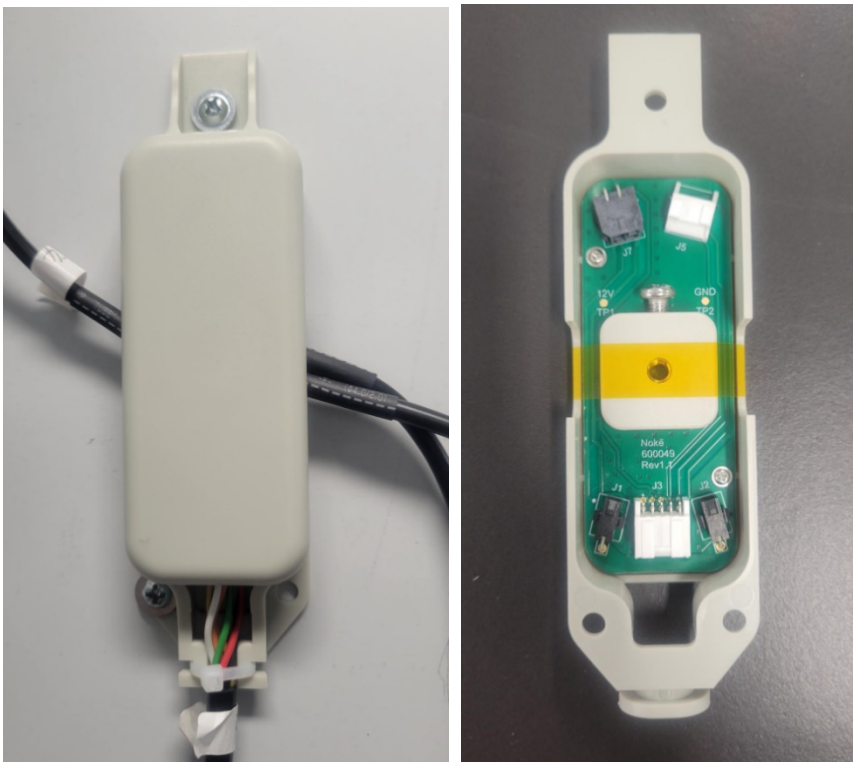


7. Plug the **4-Pin LED Light Assembly** into the wiring harness connected inside the Nokē Ion Lock Body.
8. You are **done**.

OPTION 2: Masonry building

Installing the Interface Module (Optional)

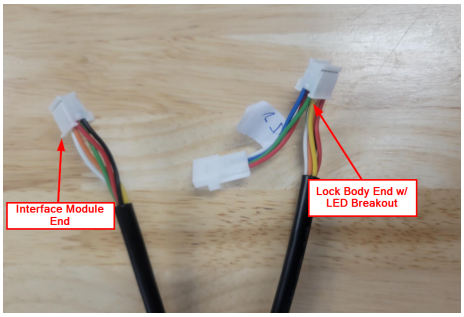
The interface module is installed into a unit if the unit is meant to be using the Daisy-Chain power concept (used more commonly on external units), if the unit is meant to have a Motion Sensor installed, or both. The interface module helps move the cables into a simpler configuration to help the installer, and it also reduces some cable lengths to reduce power losses. Finally, the interface module helps simplify what cables are being installed into the Nokē Ion main lock body, which is important because volume inside that electronics cavity is limited.



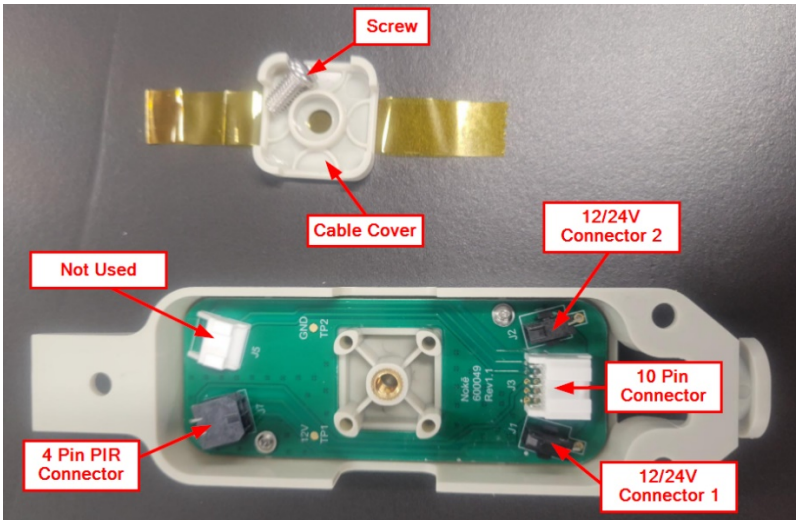
Interface Module Assembly

To install the Interface Module,

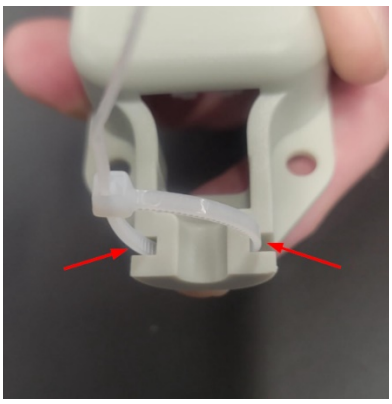
1. 10-Pin Interface Module Cable Ends:

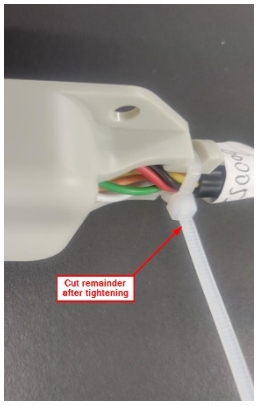


2. Connectors on the PCB are used as follows:

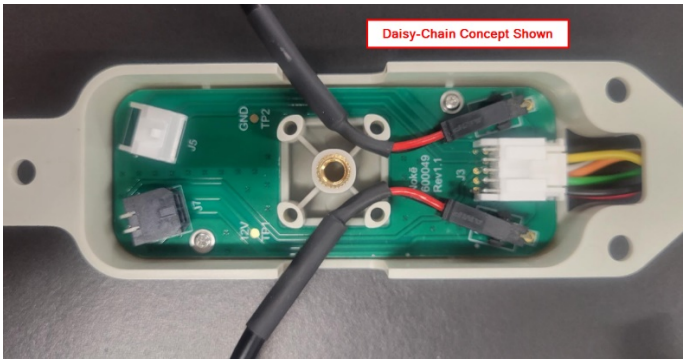


3. Start a 4" small zip tie around the 10-Pin Cable Tie-Off. Insert the Interface Module End of the 10-Pin cable connector through this zip tie and into the Interface Module main body. Align and connect with its mating connector on the PCB. Note that this connector will only fit one way, and you should hear/feel the connector snap into place when it is seated correctly. Finally, tighten the zip-tie and cut off the remaining zip-tie tail.



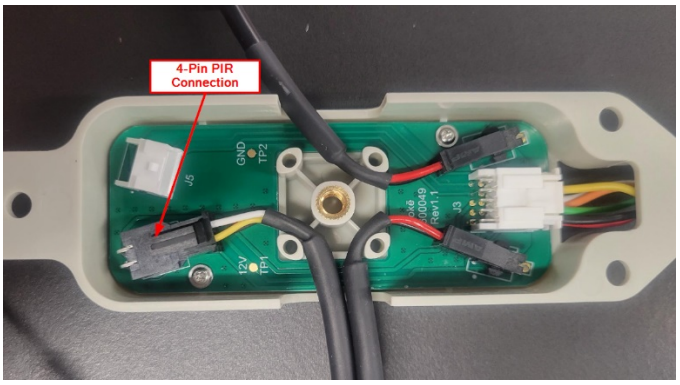


4. Insert the 12/24V Power Cable. If the Daisy-Chain method is being used for power, then insert a 12/24V cable into both connectors. Note: if only a single power cable is being used, it can be installed into either of the 12/24V Connectors, so pick which is more convenient. As before, these connectors only fit one-way, and you should hear/feel a snap.

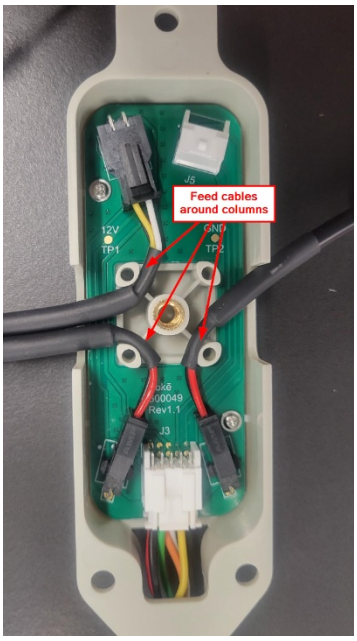


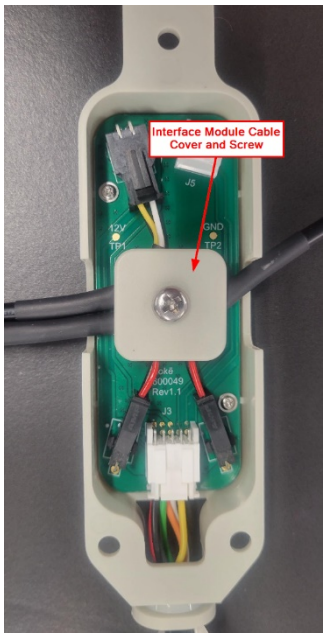
5. If the ***optional*** Motion Sensor is installed in this unit, this is the appropriate place to insert the 4-Pin Motion Sensor Cable into the assembly. This is the 2X2 connector on the opposite side of

the PCB from the 10-Pin connector. If no Motion Sensor is used in this unit, just leave this connector empty.

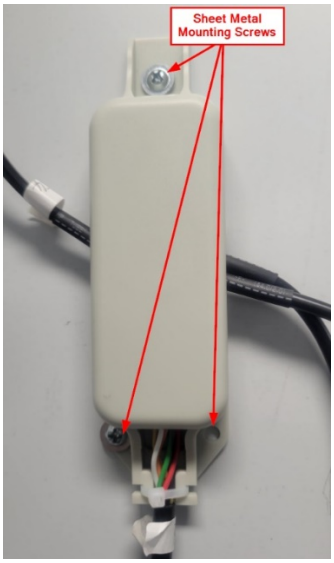


6. Feed all the cables around the columns in the center of the Interface Module. Once the cables are all placed correctly, install the Cable Cover using the included screw. This will provide strain relief to the cables.

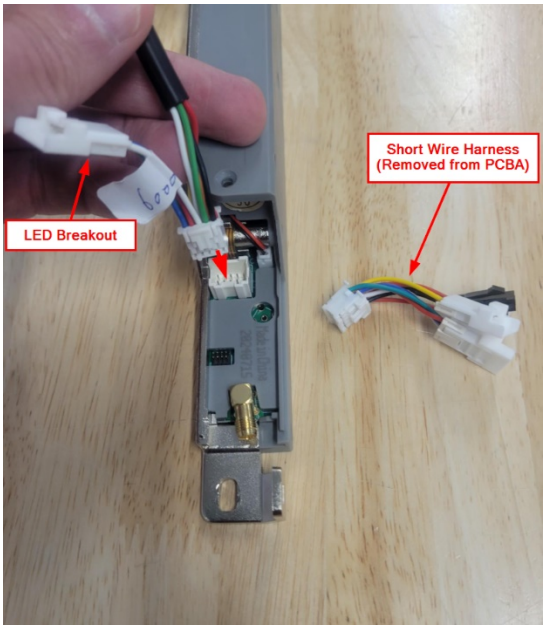




7. Secure the Interface Module to the sheet metal near the top of the unit using at least 2 sheet metal screws. Organize and securely mount all the cables to prevent damage to the cables by a future tenant of the storage unit.



8. On the Nokē Ion Lock Body, remove the Short Wire Harness that comes standard with the Nokē Ion and insert the Lock Body End w/ LED Breakout into its place on the PCBA.



9. You are **done**.

Installing the Motion Sensor (Optional)

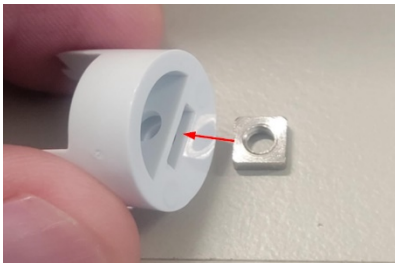
The Motion Sensor is an optional installation for mounting a sensor that can detect if a person is inside the unit. The sensor will provide this information to the Nokē Ion lock which is then passed to the cloud and can be used for data analysis, customer notification, etc. This installation is meant to be finished before the Interface Module has been mounted to the unit. *Motion sensor should be mounted at ~8ft (2.4m) off the ground*

Motion Sensor Assembly

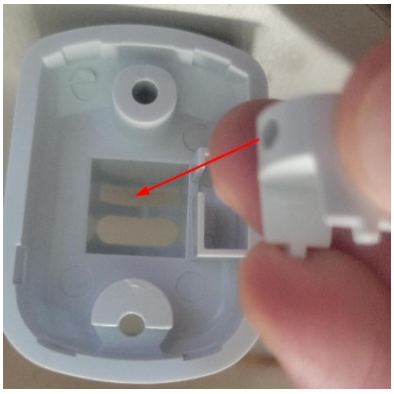
To install the Motion Sensor,

1. Drill or knock-out a hole for the Sensor Mounting Screw and the Cable Feed-Through hole.

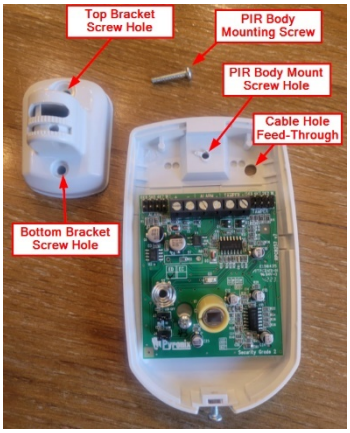
2. Insert the Square Nut into the slot of the Rotating Screw Mount as shown



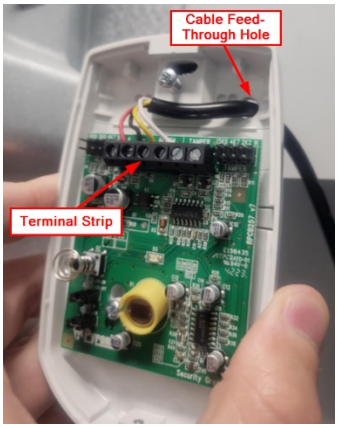
3. Insert the Rotating Screw Mount into the Bracket Body with the screw hole aligning with the narrow slot, as shown on the left. After insertion, it should look like the image on the right.

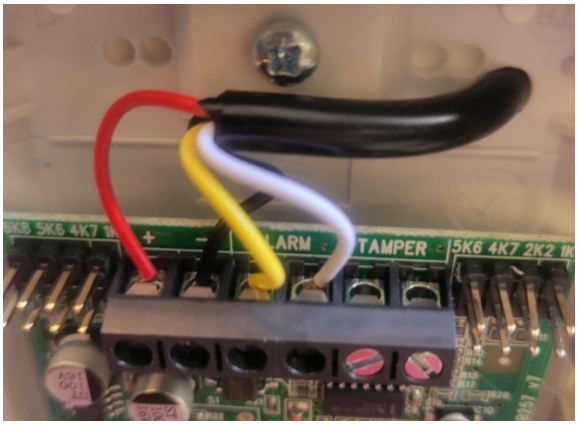



4. Pre-drill a pilot hole in the sheet metal where you would like the BOTTOM mounting screw to be located. The top can be pre-drilled now, or you can use a sheet metal screw and screw it in at a later step.
5. While holding the Rotating Screw Mount inside the Bracket Body, place the provided machine screw through the mounting screw hole in the Sensor Body and start threading it (2-3 turns) into the Rotating Screw Mount. This should only be threaded far enough that you can still rotate the PIR body all the way around (360 degrees), but the two are connected.

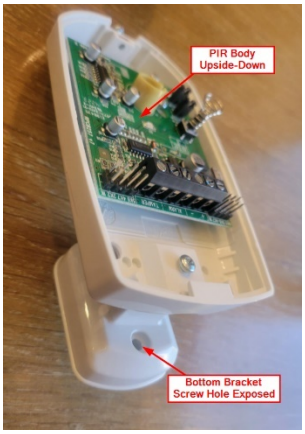


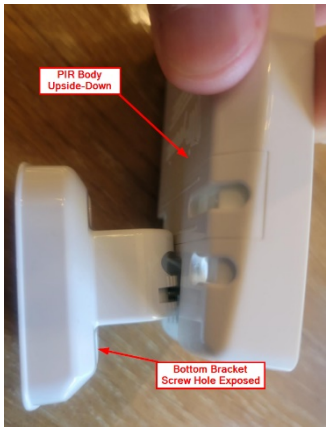
6. Feed the cable into the Sensor Body through the Cable Feed-Through Hole. Connect the wires into the Terminal Strip as shown in the 2nd image. The “Tamper” terminals are left empty.



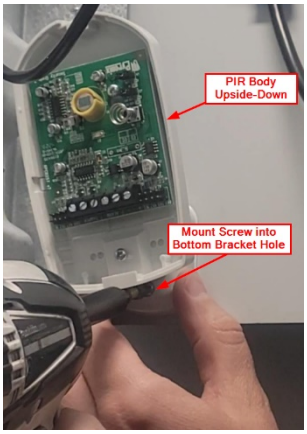


7. Rotate the Sensor Body so it is UPSIDE-DOWN (exposing the bottom screw hole in the Bracket Body).

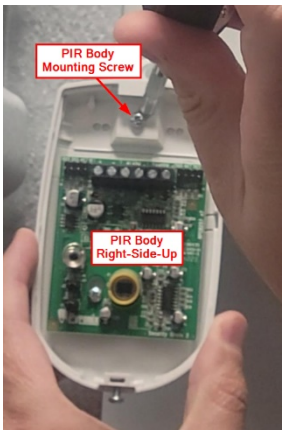




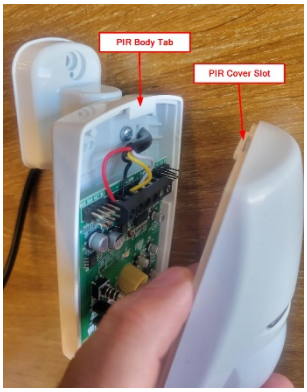
8. Hold it up in the unit so the lower screw hole aligns with the pilot hole. Screw the lower screw into the sheet metal.



9. Rotate the Sensor Body right-side-up. Orient the Sensor unit so that it is facing correctly into the unit (approximately diagonally across the unit or 45 degrees from the wall for oddly shaped units). Tighten the Sensor Body Mounting Screw until snug.



10. Level the Bracket Body so the sides are vertical. Mount a sheet-metal screw into the Top Bracket Mounting Hole; ideal mounting height is 8ft (2.4m) above the ground.
11. Place the Sensor Cover onto the Sensor Body by inserting the Sensor Body Tab into the Sensor Cover Slot located on the top of the cover. Slide the cover tight against the body and tighten the Sensor Cover Screw on the bottom of the unit until snug.



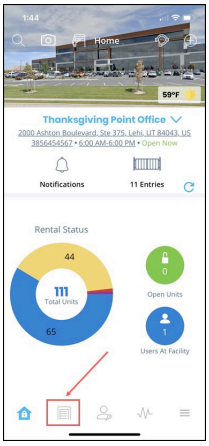
12. Connect the 4-pin Connector on the other end of the Sensor cable into the Interface Module (see the **Installing the Interface Module (Optional)** section on Page 1616). Clean up cables and securely mount so they are not at risk of being damaged by future tenants of the storage unit.
13. You are **done**.

Testing the Locks

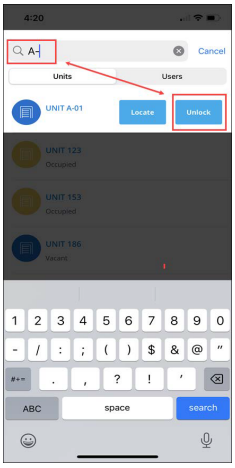
After installing a section of locks at the facility, go back through and test each of the locks one more time via the Nokē Storage Smart Entry manager's mobile app.

To test a lock,

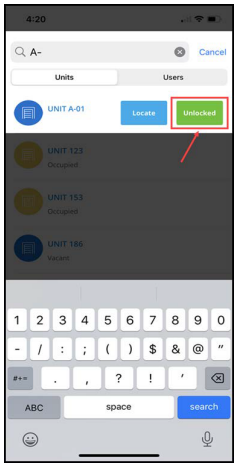
1. Open your Nokē Storage Smart Entry manager's mobile app, and then tap **+** (top-right corner).
2. Tap the **Units** icon at the bottom of the screen.
3. Enter the **Unit** name in the **Search** field to locate the unit, and then tap **Unlock**.
4. Slide the latch to close the unit.
5. Confirm the lock is closed.



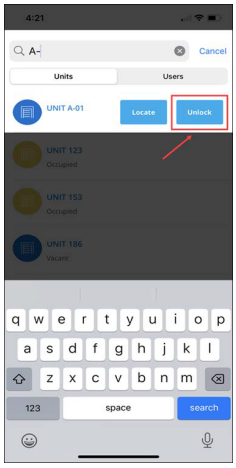
Step 2



Step 3



Step 4



Step 5

6. You are **done**.

Maintenance

Inspect the entire facility for tampering or damage at the end of the installation.

Disclaimer

Always install all network and devices in a safe manner and in full compliance with this manual and any applicable laws related thereto. No warranties express or implied are contained herein. Nokē or Janus International is not liable for any injuries or damages to any operators, property, or bystanders incurred as a result of using the networking devices by its customers.

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Website: **www.janusintl.com/products/Nokē**

Compliance Statement

Nokē Ion

FCC ID 2AFRJ-ION1

IC 32315-ION1

FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

ISED Compliance Statements

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Compliance

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

Motion Sensor

FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

ISED Compliance Statements

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

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(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Compliance

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.