BeeSecure

LoRa "R311A" Door Opening Sensor
Getting Started

beesecure.ca
app.beesecure.ca

Contents

Part A: Account Activation

Please see the BeeSecure Setup Guide at beesecure.ca/getting-started to setup your account on app.beesecure.ca.

Part B: Pair Your Door Sensor with an Asset

First, create a new asset in the BeeSecure app. This asset will be the door that you want to monitor.

To create an asset, go to the "Listing" menu in the app by opening the menu on the right and clicking on "Assets" → "Listing":
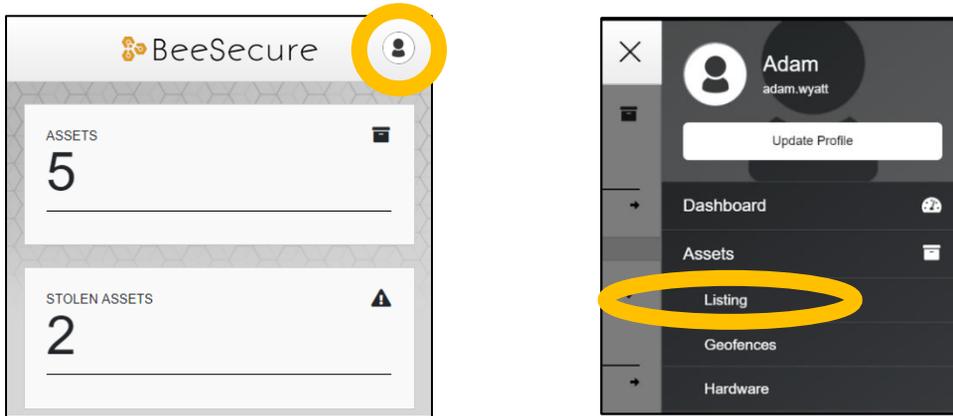
Next, add an asset by clicking the (+) icon on the top right of the screen.

After you created a new asset, click the hardware icon ( ) for your new asset and type in the ID for your door sensor. The ID is located on the box your sensor came in and is also found on the back of the sensor, labeled with DevEUI.
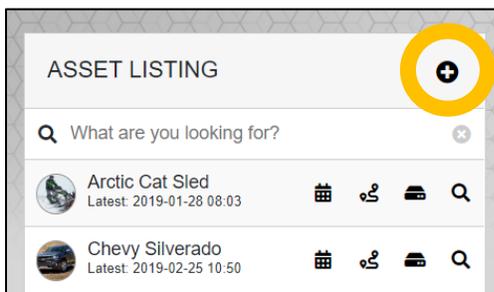
Asset ID

Part C: Set Location of Device in App

The "R311A" does not have a GPS to find its own location, so in the BeeSecure app you will have to manually set its location so it will show up properly on the map.

After pairing your device to an asset in the BeeSecure app in Part B, set the location of this asset by manually creating an asset event:

i) Go to the "Assets" page in the BeeSecure app, and click the 📅 icon

ii) Click the ➕ icon on the top right to create an event

iii) Type in the GPS location (latitude, longitude) into the "GPS Location" box. If you are standing at the location with your phone or computer, you can click the ◤ icon to get your current location, then copy and paste it into the "GPS Location" box.

iv) Click the "Create Asset Event" button at the bottom of the page. Now you should see the location of this device on the Asset Map.
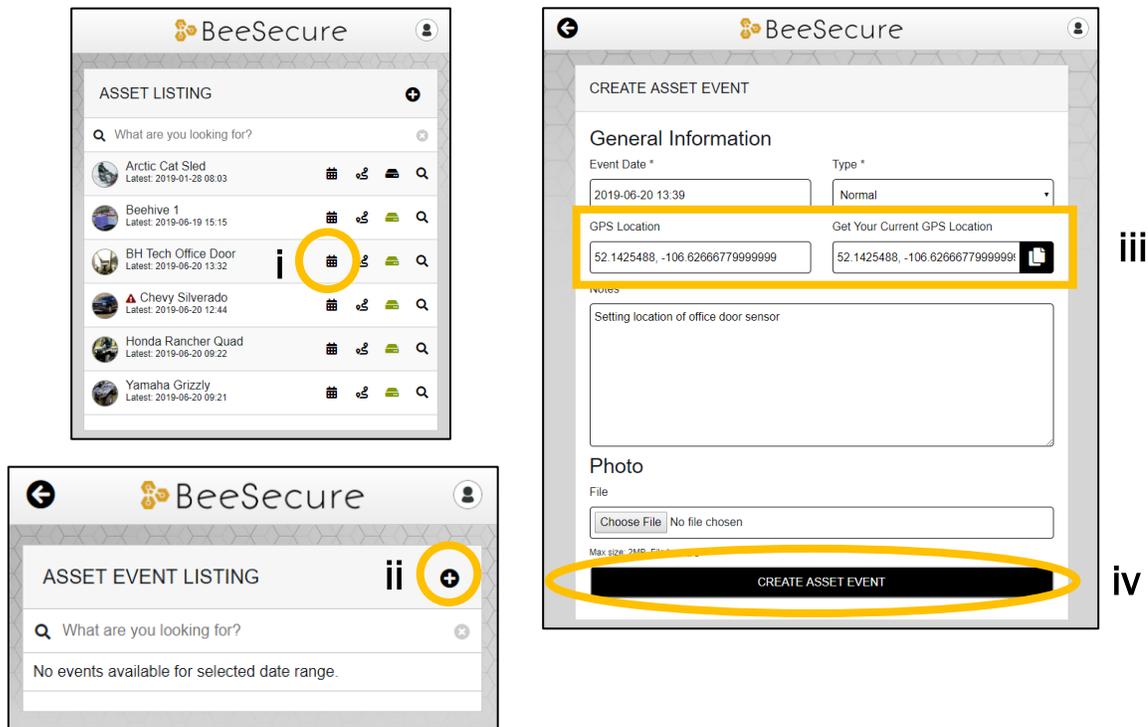
Part D: Connect your "R311A"

Step 1: Power on the R311A

i) Insert the batteries into the sensor by opening the back of the sensor and inserting the two batteries face up. You might need a flat head screwdriver to push the tab to open the back of the sensor.
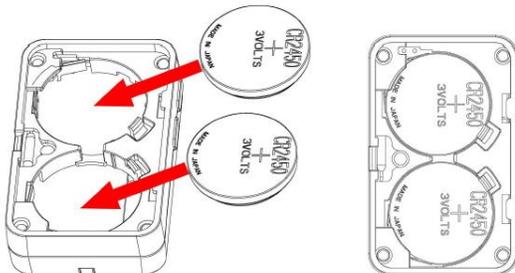
ii) Turn on the sensor by pressing and holding one of the Function Keys (doesn't matter which one) until the green indicator light flashes. This should take a few seconds

iii) You can power off the sensor by pressing down both function keys at once for about 10 seconds until the green light starts flashing rapidly.

Step 2: First Time Connecting

i) After you turn on the sensor, it will try to join the LoRa network. Once it joins, the green indicator will flash.

ii) At any time, you can check if the sensor has joined the LoRa network by pressing a releasing a function key. If the light flashes green, then it has joined. If it flashes red, then is has not joined the LoRa network.

Step 3: Replacing the Batteries

i) The R311A sensor uses two off-the-shelf 3V CR2450 button batteries. These can be purchased at your local hardware store.

Help

If the device can't get LoRa reception and isn't sending data to the BeeSecure app, make sure the device has an unobstructed view of a LoRa gateway. If metal or concrete is between the tracker and gateway, the signal range will be reduced.

Part E: Install the Sensor on a Door

- Remove the 3M glue on the back of the magnet body and attach the body to the door frame (please do not stick it on the rough door to avoid falling off after using the device for a long time).

Note:

- Wipe the door clean before installation to avoid dust on the door and affect the adhesion of the device.
- Do not install the device in a metal shielded box or other electrical equipment around it to avoid affecting the wireless transmission of the device.

2. Tear off the 3M glue at the bottom of the magnet part of the door magnet (the red circle part in the figure above) and stick it to the door in parallel with the door magnet body. As shown in the enlarged view on the right:

Note: The installation distance between the magnet body and the magnet should be less than 2cm.

When the door is opened, the magnetic body of the door is separated from the magnet, and the magnetic device sends an "alarm" message.

When the door is closed, the magnetic body of the door is merged with the magnet, the device returns to the "normal" state, and the status information of the off is sent.

This figure shows the scene where the door magnetic sensor (R311A) is applied to the door (opening and closing).

It can also be applied to the following scenarios:

- Door, window
- drawer
- Machine room door
- Archive room
- Closet
- Refrigerator and freezer
- Cargo ship door
- Garage Door

Places which are necessary to detect the opening and closing state

Part F: Device Operation

i) When door opening is detected, the device will transmit and alert to the BeeSecure app.

ii) If nothing is detected by the sensor, the device will report its battery status and temperature once every 2 hours.

iii) A low battery alert will appear in the BeeSecure app if the battery is low. Note that extreme cold temperatures or the use of incorrect types of batteries could set off this alert prematurely.

Part G: Track Your Assets

Track your BeeSecure-Guarded Assets

i) You can customize the notifications you receive from your asset trackers via the 'ASSETS' ➔ 'LISTING' screen – click the settings icon (🔍) next to your asset

ii) Under 'Notifications' you can:

    a. Flag your asset as stolen (only do so in the case of a confirmed theft). Coming soon, law enforcement will be directly notified when your asset is stolen.

    b. Edit the date your asset was stolen

    c. Adjust the notification interval for when you will be notified that your asset has started moving.

        For example, if set to 1 hour, you will be notified that your asset started moving only once it has been stationary for 1 hour. This helps prevent false alarms and limits the number of text messages sent.

        Don't worry, your asset will still be tracked regardless of if you receive a notification or not.

Notifications

Stolen *

No ▾

Stolen Date

YYYY-MM-DD

Notify Of Movement Once Idle For *

1 hour ▾