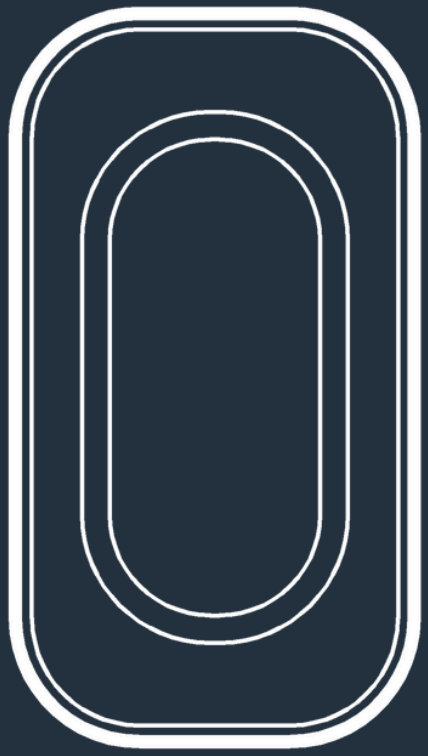
safetrust



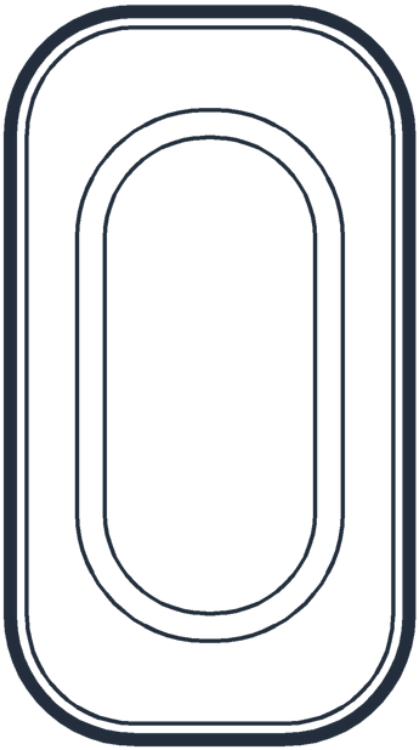
8845-000 Quickstart Guide

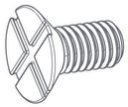
Last Updated: September 3, 2024

Contents

01

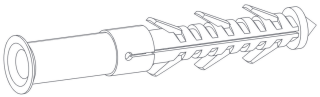
In the box





#6-32 x .375” Phillips flat head screw

Secures the IoT Sensor and the backplate together



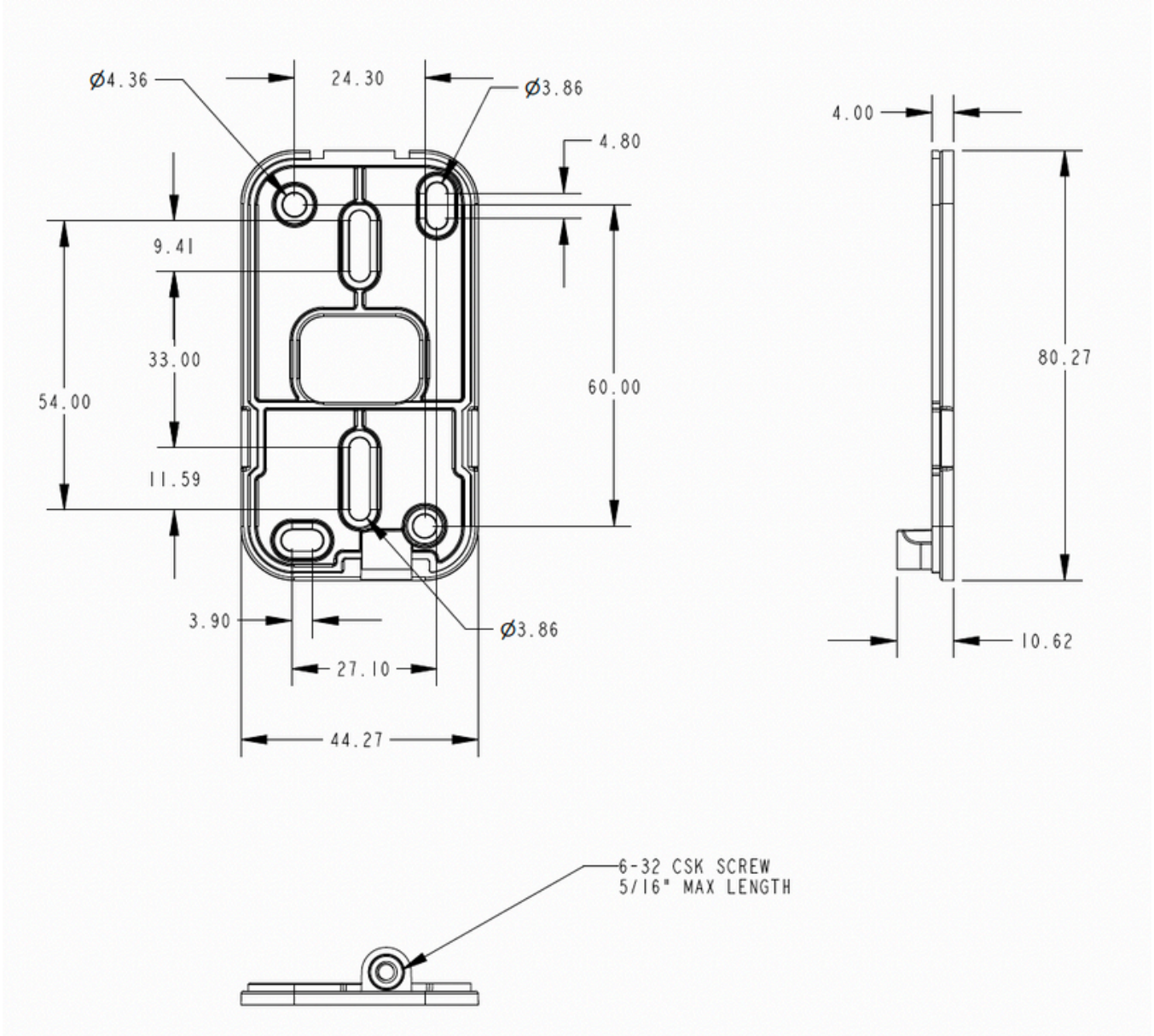
Nylon wall plugs

Used to brace the screws inside the wall

#6 x 1.5” Phillips sheetmetal screws

For mounting wall bracket

Mounting Plate



02

What you'll need

Cable Installation Note

Power requirements: 12 Volts DC +/- 5% and 250mA **at the endpoint** (IoT Sensor) is required.

We advise not only selection of the right gauge and power quality, but integrators should confirm the power delivery is sufficient by checking power at the endpoints.

If existing cable is of higher gauge / lower capacity and cannot be replaced, Safetrust sensors are designed to operate at up to 24VDC.*

As a result, higher voltage at the power source is safe to use with IoT Sensors if the source and wiring implementation can safely support it and if it is compliant with local code.

** Safetrust recommends against using the same 24V power supply for both locks and IoT Sensors.*

Power cable:

- 18/2 for distances < 500 ft.
- 16/2 for distances < 700 ft.
- For distances up to 1000', see Cable Installation Note above.

Data cable - Wiegand:

- Cable, 5-12 conductor, 4 conductor Twisted Pair Over-All Shield and UL approved (<500ft)

Data cable - OSDP:

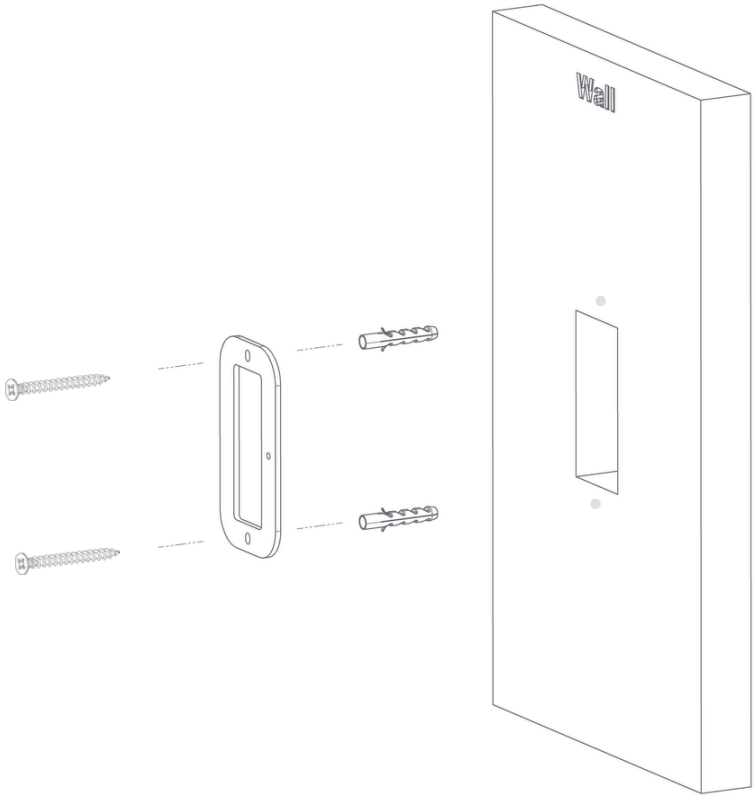
- Belden 6381MD - 1Pr 24AWG Shielded Data + 18/2 Power OSDP CMP or equivalent (<500Ft)
- Belden 6281MD - 1Pr 22AWG Shielded Data + 16/2 Power OSDP CMP or equivalent (<700Ft)

Tools and Supplies:

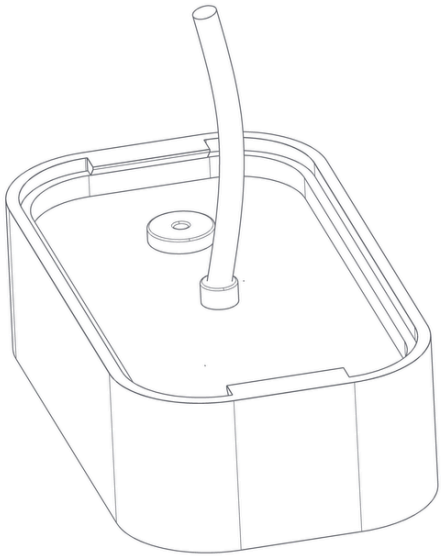
- Drill with various bits for mounting hardware
- Additional tools and supplies as needed to connect sensor wires to associated system cable

03

Installation



For a wall mounted installation, begin by pre-drilling your holes and insert the nylon wall plugs provided to support the weight of the reader. Once secured, you can fix the backplate to the wall using the Phillips sheetmetal screws (#6 x 1.5”) provided.

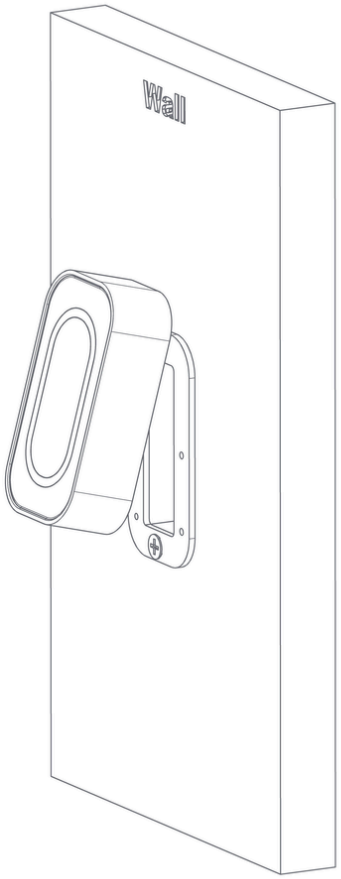


Wire Colors

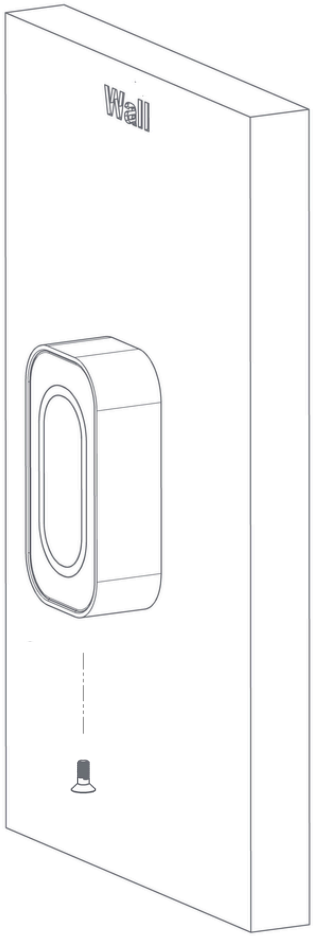
Ground	Black
Relay In*	Grey
Relay Out*	Blue
Red LED	Brown
Tamper	Purple
Green LED	Orange
Wiegand D0/Data	Green
Wiegand D1/Clock/F2F	White
12VDC	Red
OSDP TX+ / RS-485(A) / D0	Aqua
OSDP TX- / RS-485(B) / D1	Pink
Beeper	Yellow

*Low voltage

The next step is to connect the wires as per the wiring table above.



Once the backplate has been fitted and the wiring is complete, the IoT Sensor can be mounted to the wall as shown above.



Complete the hardware installation by fixing the screw (#6-32 x .375” Phillips flat head screw) through the base of the reader.

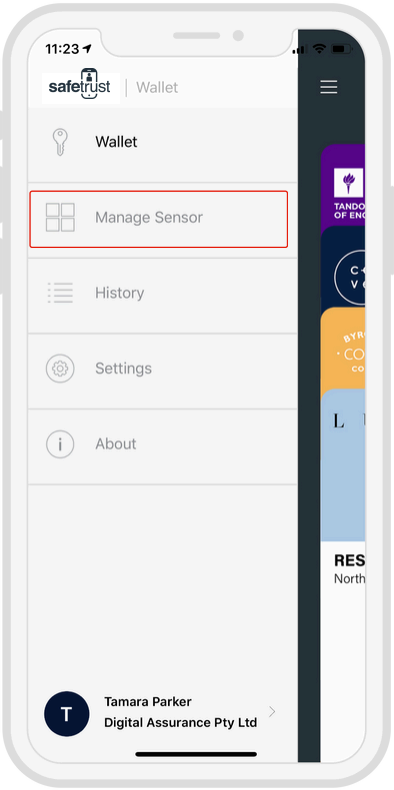
04

Configuration

1 Open the Safetrust Wallet

Open the Safetrust Wallet App and select the **Manage Sensor** tab from the navigation.

Make sure your system administrator has set you up with a role that has rights to configure a sensor (e.g. Admin, Installer).

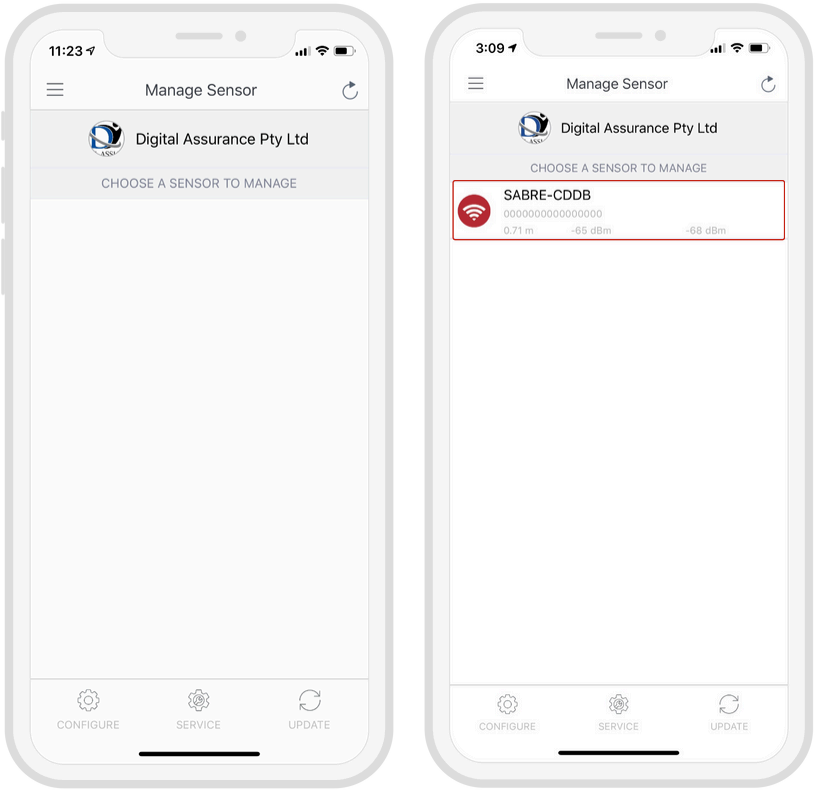


2 Choose a sensor to manage

With the **Manage Sensor** tab open, bring your phone within range of the sensor. Once the Sensor appears in the app, click on it to select it.

Note: If the sensor does not appear immediately, you may need to click the refresh button in the top right-hand corner.

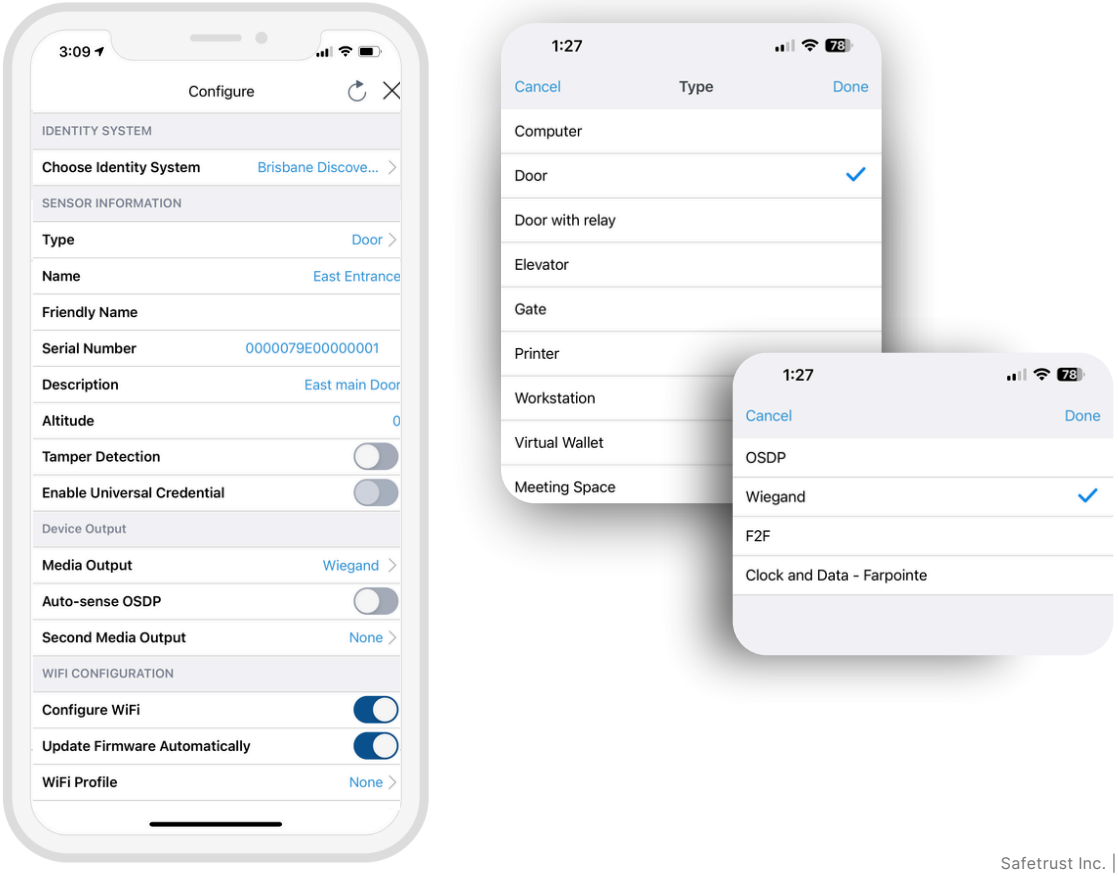
Once the sensor is highlighted, click **CONFIGURE** from the bottom options.



3 Input sensor information

The settings screen displays a range of configuration options for the sensor. However, the following fields are the main settings that require action at this time:

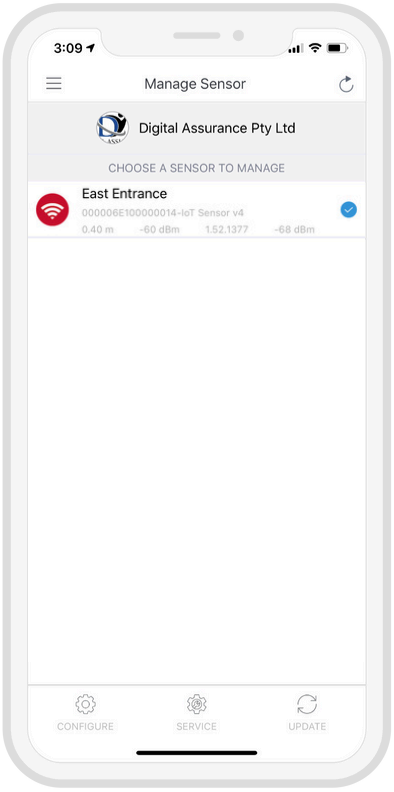
- Choose an **Identity System***.
- Specify the **Type** of access from the dropdown (e.g. Door, Gate etc.)
- Assign a short **Name** and **Description** using alphanumeric characters.
- Choose an **Output** for the sensor (the default is set to Wiegand).



4 Configuration Complete

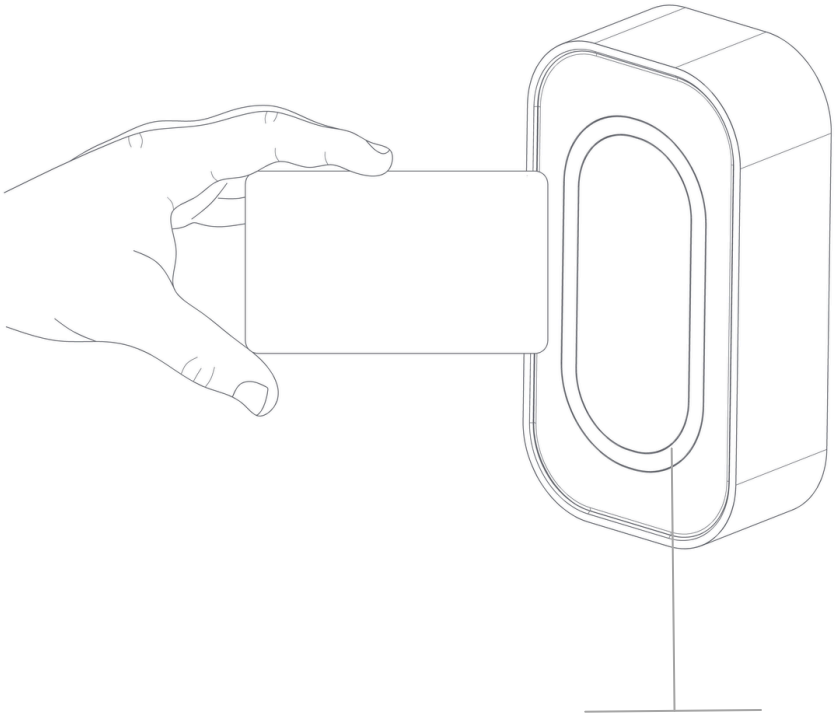
Once you have adjusted all the configuration settings, scroll to the bottom of the page and click **SUBMIT** to successfully complete the sensor configuration.

When the Sensor information is saved successfully to Credential Manager and assigned to the Identity System, the new description will appear in the **Manage Sensor** tab with a unique serial number assigned.



05

Testing



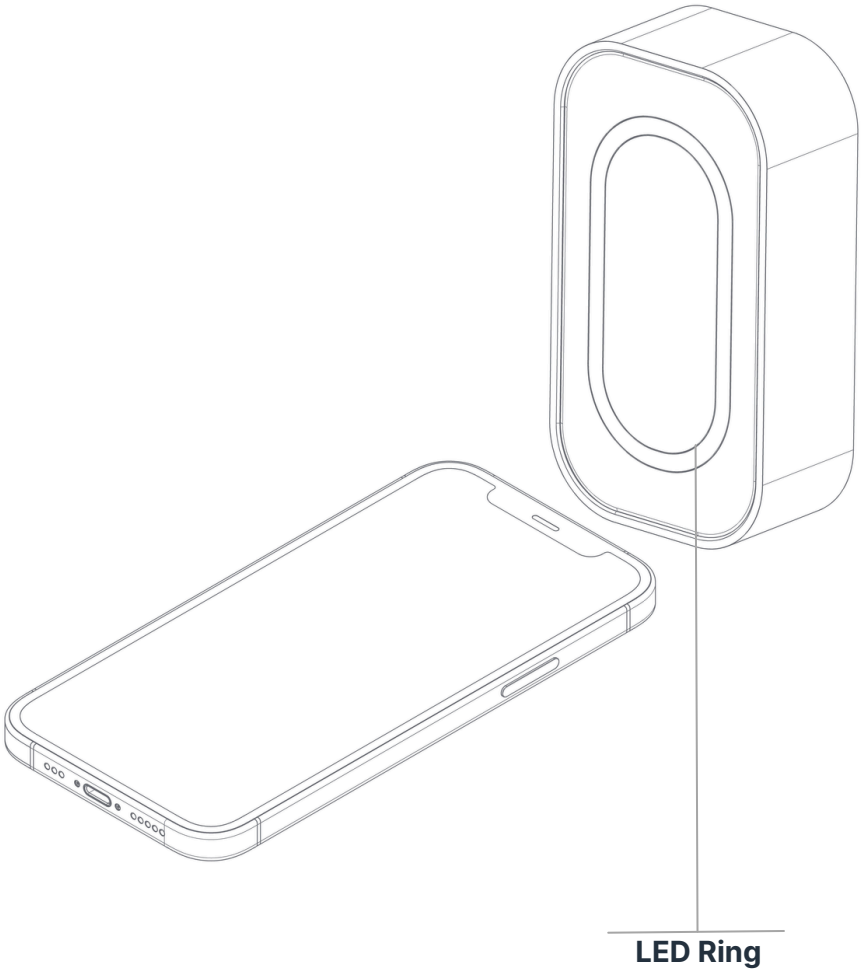
Access with cards

Status LED

Solid red
Indicates idle mode

Flashing red, blue, green
Power up mode

Flashing green
Card credential is read and transmitted through designated wires



Access with Mobile – BLE

Status LED

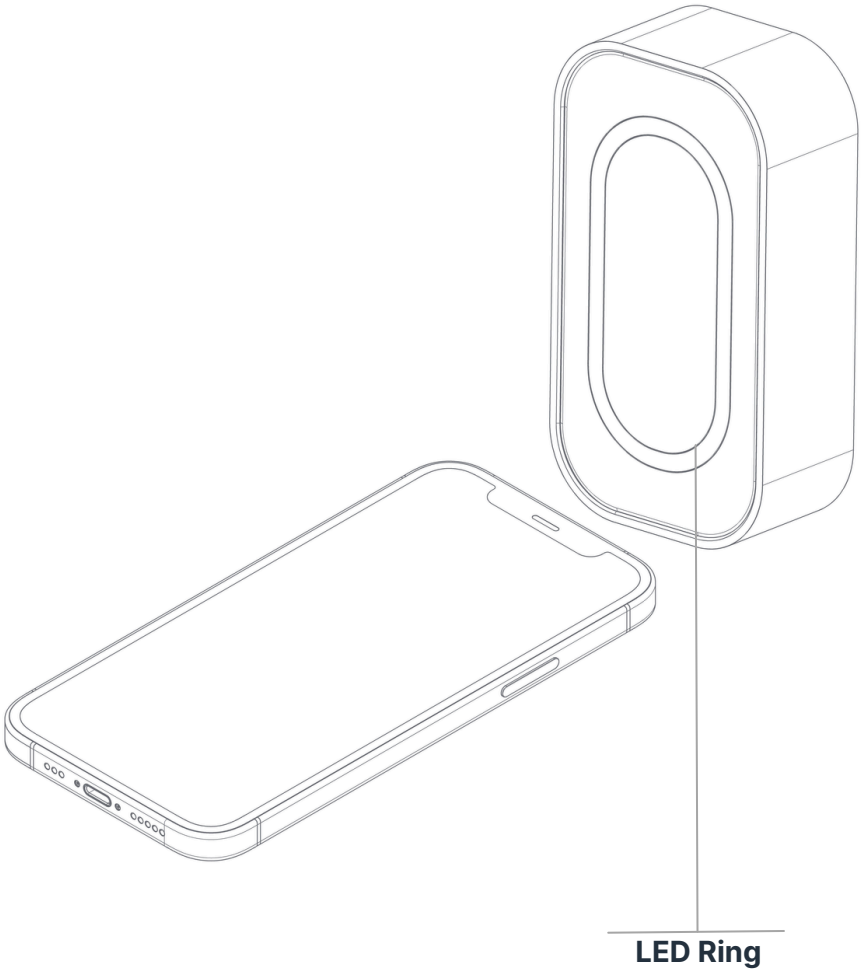
Solid red
Indicates idle mode

Flashing red, blue, green
Power up mode

Solid Blue
Mobile credential detected

Flashing green
Mobile BLE credential is read and transmitted through designated wires

Access with Mobile – NFC



Status LED

Solid red
Indicates idle mode

Flashing red, blue, green
Power up mode

Flashing green
Mobile BLE credential is read and transmitted through designated wires

06

Regulatory Information

FCC: 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.

Canada Radio Certification: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause 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.

CE Marking: Safetrust hereby declares that these proximity readers are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

07

Support

Thank you for purchasing the Safetrust IoT Sensor Mini Mullion.

If for any reason you need assistance with your installation, please contact your local Sales representative .

Sincerely -
The Safetrust Team