Essence Security

MyShield Product Family

Installation Guide

July 2025

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1. Introduction

The MyShield product line include variations of remotely triggered, smoke generating security device for detection, verification and intervention against intruders.

- MyShield – Is the Essence Security flagship device which includes the maximum feature set including: PIR detection, HD camera for video verification, smoke generating canister for intervention.
- MyShield Next – is a slimmed down version which omits only the camera. MyShield Next is available in multiple versions:
  - Cellular and wired input
  - Wired input only

This document describes how to optimally install MyShield devices as well as functionality testing and verification.

Install MyShield in a location which meets the criteria outlined below in order to ensure that the sensor will be able to detect movement throughout its coverage area, and to ensure that the smoke diffuser will be able to fill the room as effectively as possible.

Installation overview:

- Selecting and testing an installation location for the MyShield device:
  - Select the ideal installation location
  - Optional – prepare the MyShield device for the wiring kit
  - Testing the installation location
  - Mounting MyShield
- Essence Smart Security mobile application:
  - Install the Essence Smart Security app on a mobile phone
  - Register as a new MyShield user
  - Add the new MyShield device to the Essence Smart Security app
- Final verification:
  - Walk test
  - Operational test
  - Intrusion test
- Installing a live smoke canister

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2. Prerequisites

The following will be needed in order to successfully complete the installation:

- The MyShield device
- The MyShield simulation canister (identifiable by its red top and bottom covers)
  - The Simulation Canister Getting Started Guide included in the canister packaging
- Eight new CR-123A 3V batteries (six for MyShield, two for the simulation canister)
- CAT-M micro-SIM (3FF) card recommended by your vendor
- Optional plastic PIR sensor cover (sold separately)
- Drill
  - If using wall anchors - 5mm drill bit suitable for the mounting surface (masonry)
  - 3mm HSS drill bit (for plastic)
- Pozidriv screwdriver (PZ2)
- Two 3 X 35 DIN 7982 C screws and wall anchors (provided)

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3. Usage and Safety Instructions

Below are the terms of use and safety instructions for MyShield and its smoke canisters:

1. A 10x15 cm obscuration warning sticker has been included in the MyShield kit. A sign indicating the presence of a vision obstruction device should be placed on the protected premises in accordance with the following graphic and dimensions:

Height of signs and max viewing distance					
Maximum viewing distance		Minimum symbol height		Recommended letter height supplementary text signs	
m	ft.	mm	in.	mm	in.
7	23	60	2.36	5	0.20
9	30	80	3.15	7	0.28
14	46	120	4.72	10	0.39
21	69	180	7.09	15	0.59
28	92	240	9.45	20	0.79

2. In addition to the sign requirement above, the canister MSDS (material safety data sheet) and these safety instructions must be provided to the end customer and be kept at the installation site to be made available to first responders as needed.
3. The device includes a canister which is a pyrotechnic article: a smoke generator with an anti-theft function. The contents of the canister are isolated and protected from direct contact. The smoke produced during the intended use is not classified as dangerous to human health; however, it may cause skin, eye, respiratory, and throat irritation.
4. The canister should be used only with MyShield and only in accordance with its intended use.
5. The device should be installed, maintained, and activated only by authorized personnel.
6. The device should be installed at least one meter away from any flammable objects, such as but not limited to, furniture, textiles, carpets, drawings, carton objects, and any flammable substance such as chemicals, oils, and/or fuels.

NOTE: By utilizing this device, the end user agrees to follow all relevant local laws and safety regulations concerning pyrotechnic smoke devices.

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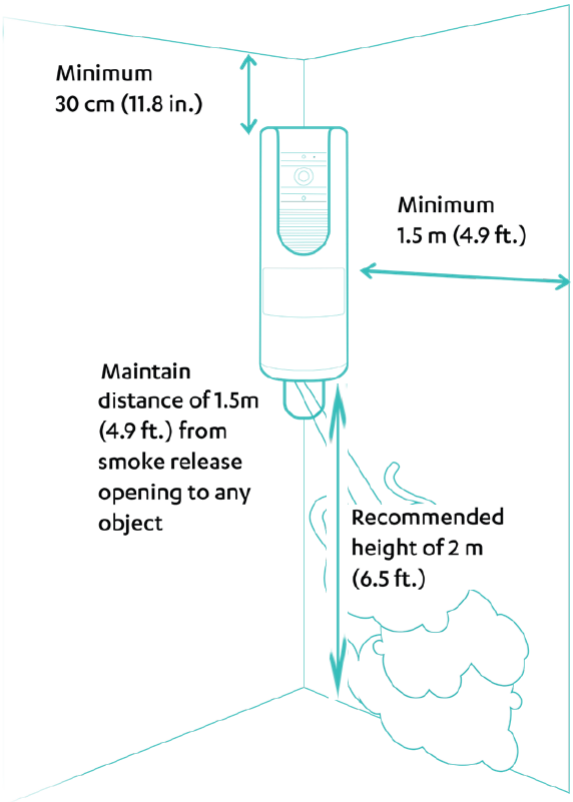
Functional and Safety Installation Distances



7. The device must not be covered or blocked at any time after installation.
8. Do not block exit and/or escape pathways at the installation site.
9. Smoke activation should be performed by a trained professional only after verifying a real trespassing event via video, photo, and/or voice, and making sure that no unrelated bystanders are in the premises.
10. The device canister should be replaced periodically to ensure its maximum effectiveness.
11. The canister should be replaced only by authorized personnel.
12. It is recommended that the device be installed in areas with windows or other accesses that allow proper ventilation after activation and smoke generation. If the property is not ventilated within a maximum of two hours of smoke generation, it is recommended to clean the area where smoke was generated. The residue which might be left as the smoke settles is easily removed with water.
13. It is recommended not to install the device in areas intended for the sale, breeding, or care of live animals, or in rooms intended for use by minors or people with respiratory disorders.
14. Do not eat, handle, market, or feed animals any food that has been exposed to the smoke or smoke residue.

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15. While the device is generating smoke, do not touch or stand in front of it (at a distance of less than two meters) as it may cause burns.
16. Upon activation, the smoke generated by the device will trigger smoke detectors and fire alarms, and the customer or their representative is responsible for notifying the fire department and any other relevant first responder of the presence of the device on site, and of its activation. Essence shall not be liable for any cost or liability rising from the triggering of such a fire alarm and/or smoke alarm, or for the dispatching of first responders.
17. Once the device is activated and smoke is generated, leave the area immediately. Do not exceed 15 minutes of smoke exposure. Ventilate the area as soon as possible. Return only when the smoke is has fully dissipated.
18. After smoke generation, wait at least 30 minutes before handling the device and/or canister to allow for cooling and to avoid burns.
19. Warnings:

- Fire or projection hazard.
- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
- NO SMOKING.
- Keep only in original packaging.
- In case of fire: Explosion Risk. Evacuate area. DO NOT fight fire when fire reaches explosives (canisters).
- Dispose of canisters and/or their contents in accordance with all local regulations.
- In case of exposure to smoke produced during the intended use, no specific measures are necessary. In case of unexpected symptoms or effects, contact a doctor.
- It is absolutely forbidden to attempt to open and/or tamper with and/or modify the MyShield device, the canister, or any part of either of these in any way.
- Canisters must be intact without any damage or impacts. Damaged canisters should not be installed or used. Dispose of damaged canisters and/or their contents in accordance with all local regulations.
- Do not remove the anti-humidity seal protecting the smoke outlet at the bottom of the canister.
- Do not block, cover, or plug the smoke outlet at the bottom of the canister
- Do not expose the device and/or the canister to high moisture, or wet environments. Do not introduce water and/or liquids to the device and/or the canister
- Always use original and certified spare parts from the original manufacturers.

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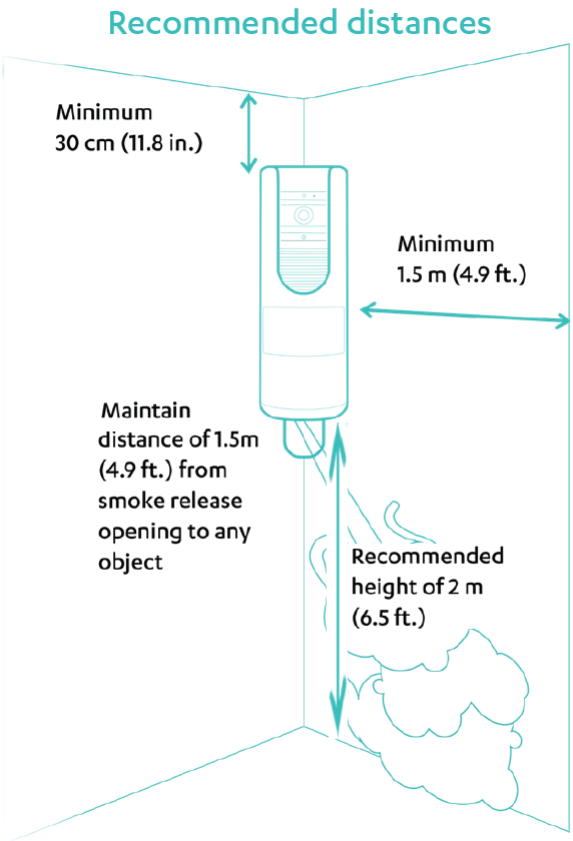
4. Choose an Installation Location

Choose an installation location that meets the following criteria:

- Indoors
- Good CAT-M cellular network coverage
- On a wall or in a corner at a height of 2 m (6.5 ft.)
- Perpendicular to the floor
- Not above an entry door
- Out of direct sunlight
- If the optional wiring kit is to be used – take this into consideration while selecting the optimal installation location
- 2 mounting holes will need to be drilled in the mounting surface
- In accordance with the following recommended distances:



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5. Test the Installation Location

Before permanently mounting MyShield, perform the following test to ensure optimal installation location:

1. With the bottom of MyShield facing up, slide the bottom panel forward until it clicks.

2. Remove the bottom panel.
3. Pull the rear cover up until it clicks.

4. Remove the rear cover.

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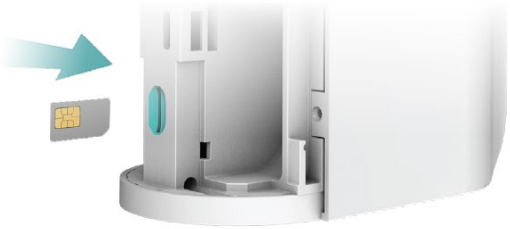
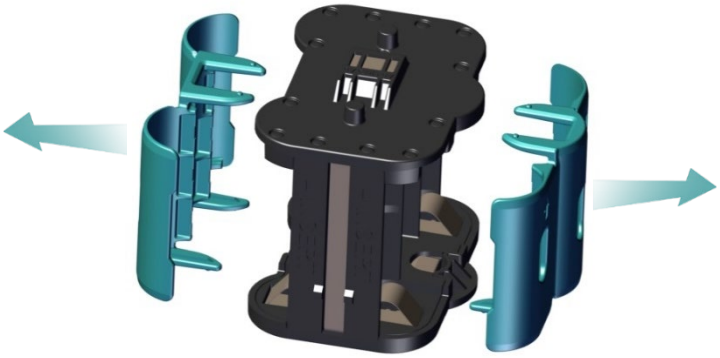
5. Insert the SIM card into the slot until it clicks.



NOTE: SIM card replacement should be performed only when the MyShield device disconnected from all power sources - remove batteries and if using a Wired Input Kit - disconnect any external power source.

6. While pressing the red release button, pull out the battery holder cartridge.

7. Remove the battery retainers.



8. Insert the batteries into the battery holder, take care to observe the correct polarity.

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WARNING! **A new battery may explode if incorrectly installed. Pay attention to polarity when installing batteries.**

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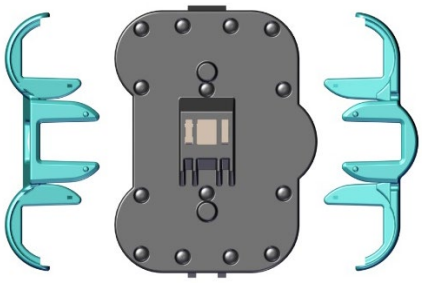
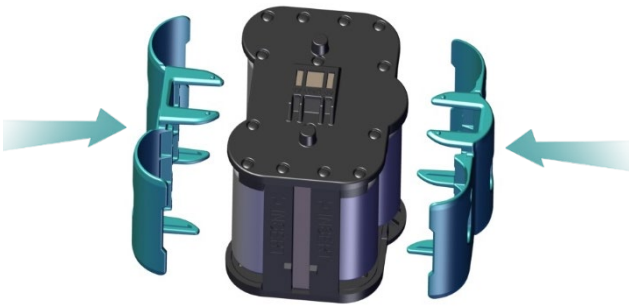
9. Reinstall the battery retainers. Note that:
    a. The arrows on the battery retainers and the battery holder should point the same direction.

    b. One retainer is concave, and one is convex.



    c. Align each retainer and install it on the corresponding side of the battery holder.



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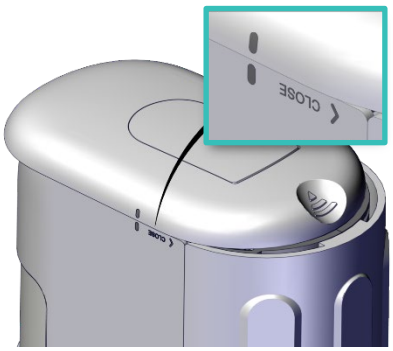
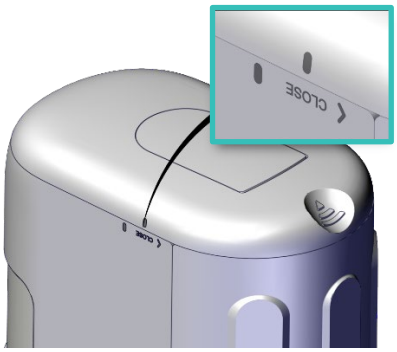
10. Slide the battery holder into the battery compartment until it clicks. When installed correctly a sound will be heard and the LED will flash red.

11. Reinstall the MyShield rear cover.

> NOTE: Beginning of Installation Location Test. It is recommended to read and understand the following steps prior to proceeding.

Reinstall the MyShield bottom cover.
Position the MyShield bottom cover using the alignment marks. Slide the bottom panel toward the back of MyShield until it clicks securely into position.





12. Temporarily hold the MyShield in the intended installation location and orientation.

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13. Network reception test: Upon power up, MyShield will automatically check the quality of its cellular network connection.

    The test lasts approximately two minutes during which time MyShield will beep every 30 seconds.

    If MyShield requires further statistics about the quality of the cellular network connection, the test may last 4 minutes during which time MyShield will continue to beep every 30 seconds.

    Do not move the MyShield until an announcement of played indicating the quality of the cellular reception. If no reception was detected within 2 minutes, another search cycle will begin.

    If reception was detected, at the end of the test MyShield will emit one of the following voice announcements and send a text message (if the device has been registered for this service): *Good reception*, *Poor reception*, or *No reception*.

    Based on the reception quality, an alternative installation location might be required or recommended. If an alternate installation location is selected - the test should be reinitiated by repeating the above steps to momentarily remove the battery holder from the device, and then reinsert it.

    - Good reception (voice announcement) - MyShield can be mounted in this position.
    - Poor reception (voice announcement) - the device may operate more slowly due to a lower data rate. Selecting a different installation and repeating the test is recommended.
    - No reception (no voice announcement) – A different installation must be selected, and the test repeated.

TIP: If there is still no reception after repeating the test, try using a SIM card from a different network operator.

NOTE: SIM card replacement should be performed only when the MyShield device disconnected from all power sources - remove batteries and disconnect any external power source.

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6. Wiring

The MyShield product line can be fitted with an optional wired input kit. This will expand functionality to include:

- Option 1: Connect MyShield to an external 12V DC power source (third party system or any 12V power source)
- Option 2: Connect MyShield to a dry contact switch

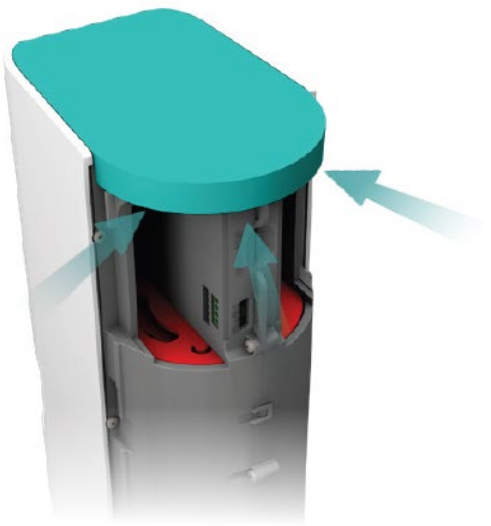
This section can be skipped if the optional wired kit is not being use, jump to section 6 Mount MyShield below.

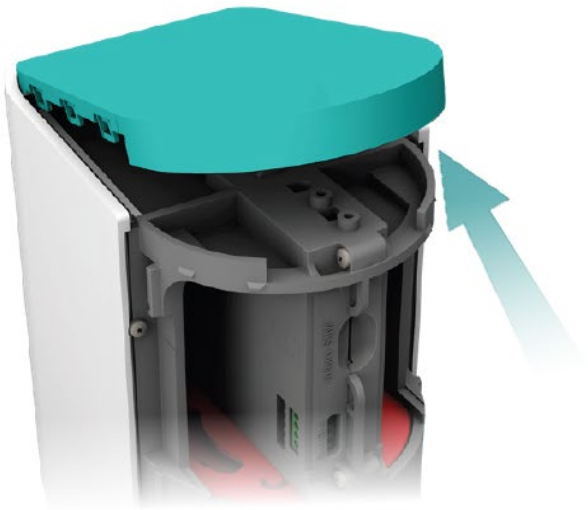
To use the wired kit, the MyShield top cover will need to be replaced with the one supplied in the wired kit.

6.1. Remove the MyShield Top Cover

1. To implement any of the MyShield Wired Input options, begin by removing the MyShield bottom cover and then slide the device off of the rear cover/wall mount.

2. Remove the original top cover by lifting only the white lip and pull gently in stages to loosen the cover until each of the tabs is released. Do not apply force in only in one place but rather alternate between the sides. It is recommended to use gloves to remove the top cover as the edges of the cover can be sharp.





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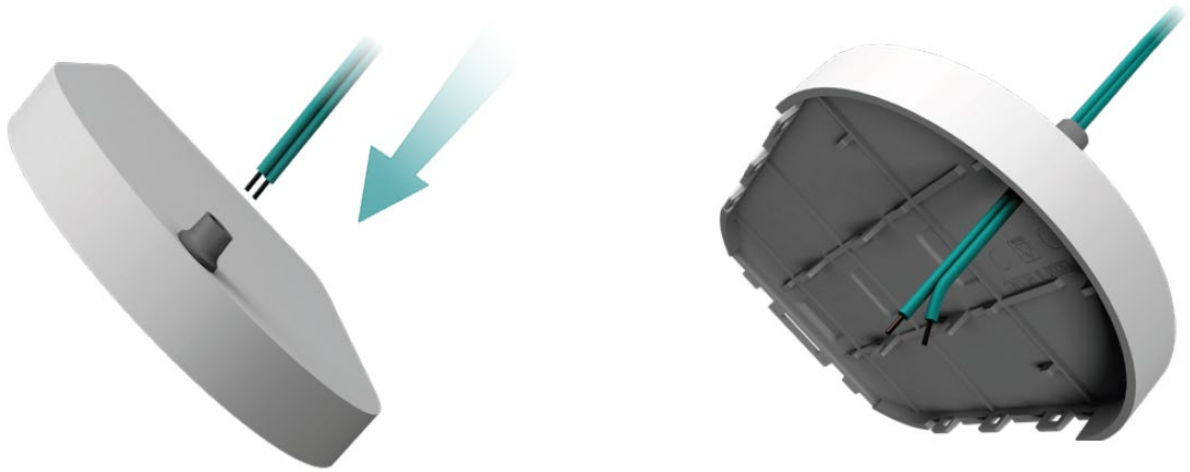
6.2. Prepare the Wired Input Top Cover

Remove the QR code sticker from the standard MyShield top cover and attach it to the new top cover.

6.2.1 Thread the wire through the Wired Input Top Cover

Thread 10-12 cm of the wire(s) from the external side of the top cover through the pass-through rubber grommet at the top of the new cover. If the rubber seal comes out of its hole, push it back into place. Make sure that the protruding lip of the grommet is on the external side of the cover.



6.2.2 Thread the cable through the MyShield structural bridge.

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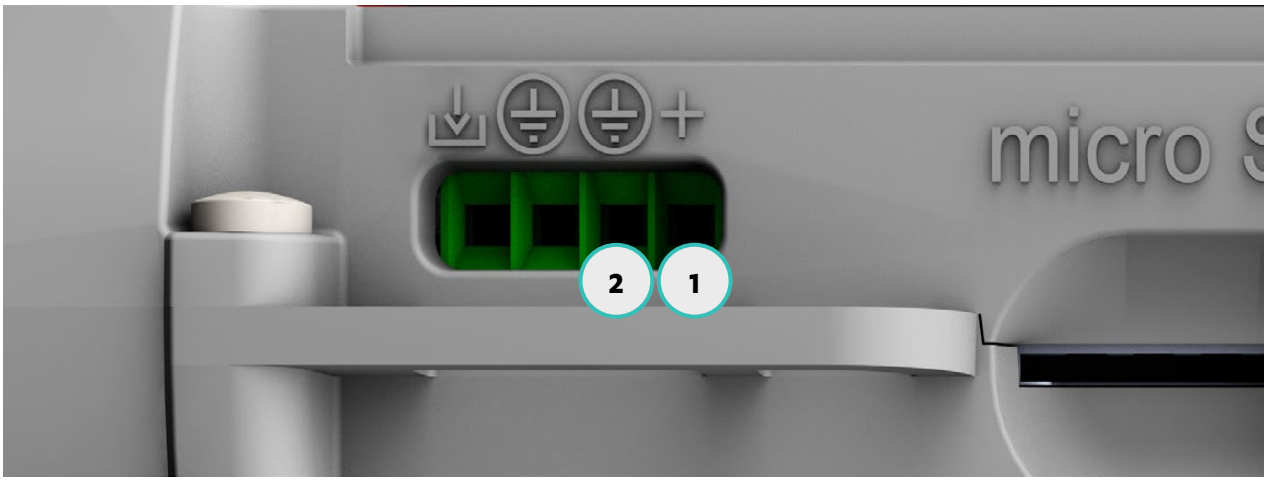
6.3. Wiring Options

IF installing with the optional Wired Kit - follow the instructions matching the desired installation option as outlined in the following sections. If installing wirelessly – skip to the **Mount MyShield** section below.

6.3.1 Option 1 - External 12V DC Power Source

To attach MyShield to an external 12V DC power source:

1. 12V+ DC – Connect the red power supply wire to the green connector at the terminal marked with a plus (+) sign. Tighten the terminal screw to secure the wire in place.
2. 12V- DC – Connect the negative power supply wire to the green connector at the 12V- DC – Connect the second power supply wire to the green connector at the terminal marked with an earth sign, adjacent to the positive wire. Tighten the terminal screw to secure the wire in place.



6.3.2 Option 2 - Dry contact switch

Use the wired input cable supplied by Essence. The wired input cable is a dual-strand cable with an in-line resistor on one end. The resistor should be at the third-party system end of the wire. Shortening of his wire is allowed - only if trimmed on the non-resistor (MyShield) end of the wire - so that the resistor remains in line between the third-party system and the MyShield device.

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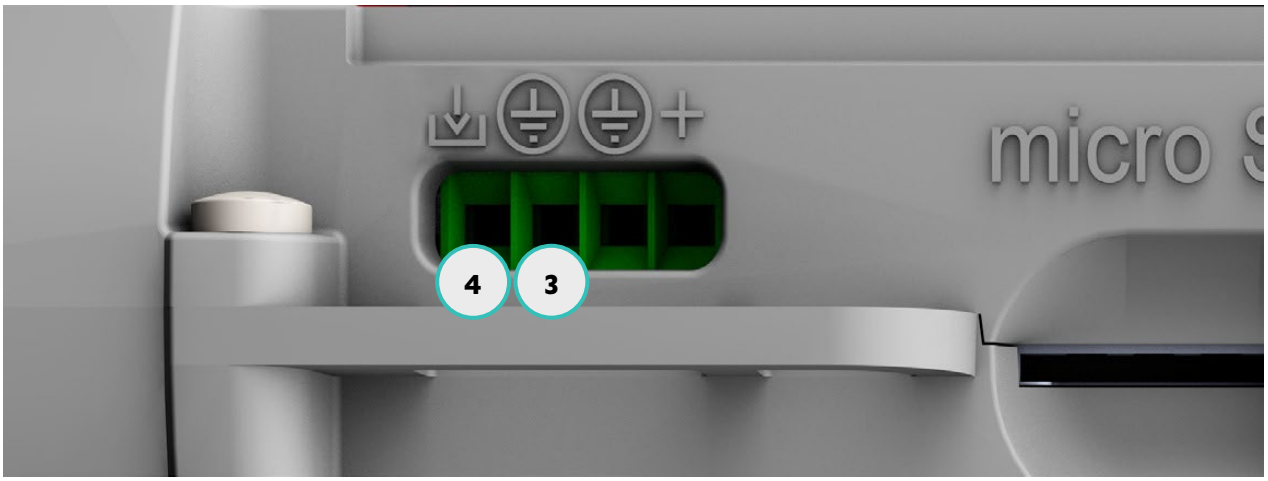
WARNING! **If connecting more than one MyShield to the same third-party relay (output) - verify that the cables on all connected MyShields are correlated in terms of input cable.**

Failing to follow this can trigger smoke deployment: in case of a HW reset on one of the MyShields will cause all other connected MyShields to deploy!

1. Connect the red wire to the green connector at the terminal marked with an arrow sign. Tighten the terminal screw to secure the wire in place.
2. Connect the white wire to the green connector at the terminal marked with an earth sign, adjacent to the first wire. Tighten the terminal screw to secure the wire in place.



6.4. Secure the cable

Pull the cable flat and secure it to the MyShield frame with a zip tie. Verify that the zip tie does not protrude which could prevent the MyShield rear cover/wall mount from sliding into position.

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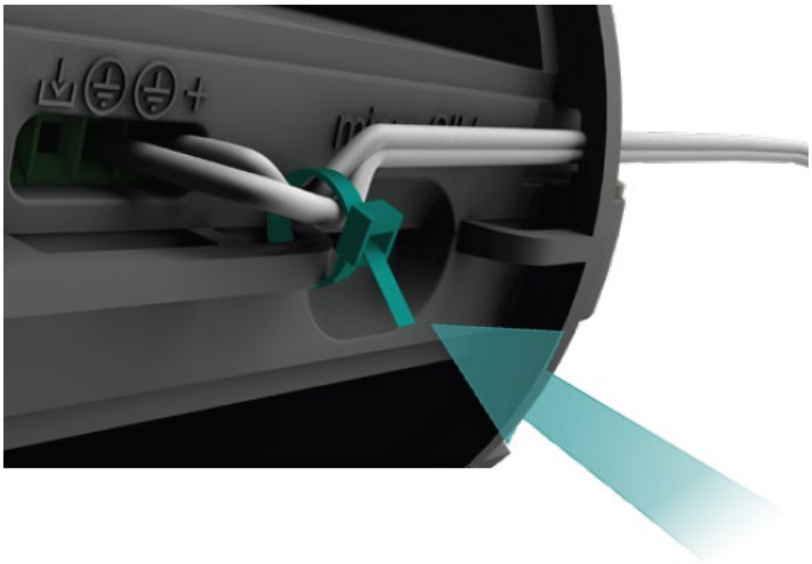
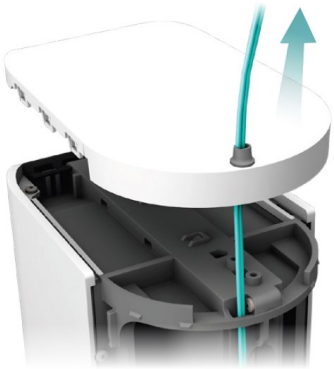


6.5. Installing the new MyShield Top Cover

6.5.1 Adjust Cable Length

Pull the cable back through the rubber grommet at the top of the cover until there is no excess cable within the device.



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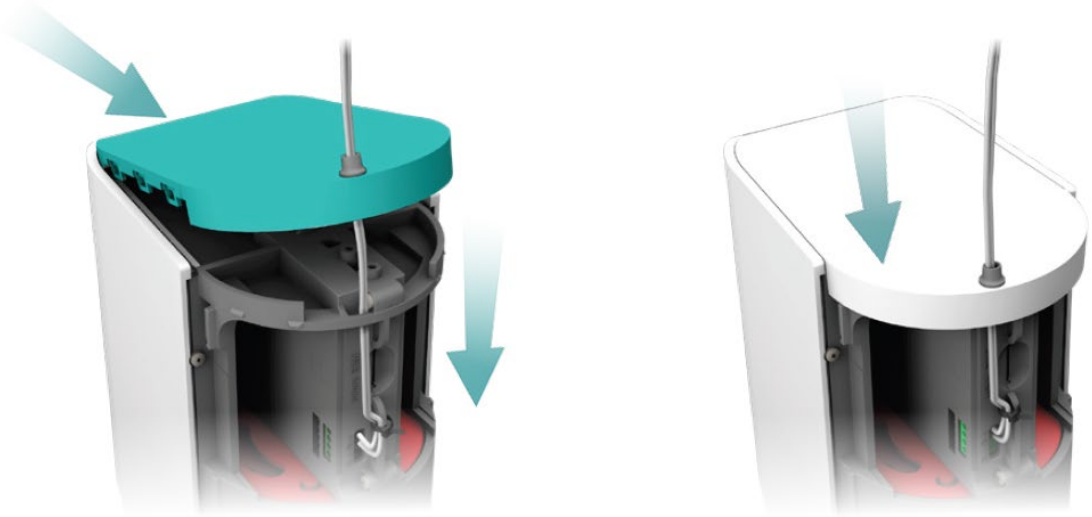
6.5.2 Attach the New Top Cover

Insert the straight side of the top cover into the back slot of MyShield, then push the front of the cover down hard until it clicks into place.



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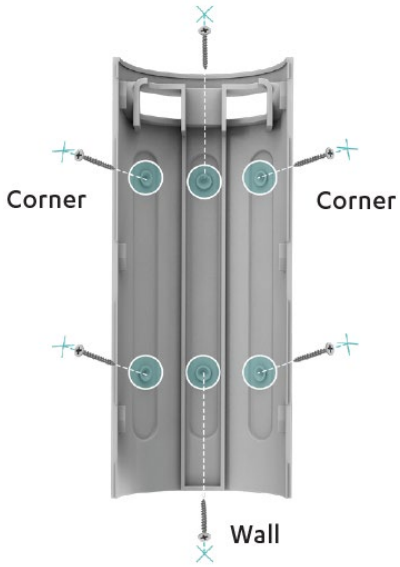
7. Mount MyShield

Attach MyShield to the wall in accordance with the distances shown in Choose an Installation Location in section 3. MyShield's rear cover doubles as a wall mount and is designed with integrated mounting hole guides which allow various installation options.

1. Position the wall mount in the intended mounting location:
   - Perpendicular to the floor
   - Flat against the wall or in a corner

   Make note of the positions at which the mounting surface contacts the MyShield rear cover.
2. Move the MyShield rear cover to worksurface suitable for drilling.
3. Drill 3mm holes in the wall mount's hole guides that correspond with the desired mounting surface.



4. Return the rear cover to the mounting location and use the rear cover as a template to mark the position of the holes on the wall through the holes in the rear cover.
5. Drill the holes marked on the wall and insert the wall anchors.
6. Align the wall mount with the wall anchors.
7. Insert the screws through the rear cover, into the wall anchors and tighten to secure to the wall.
8. Align MyShield over the mounted rear cover so that the top of MyShield is slightly higher than the top of the rear cover and slide MyShield down until it clicks.

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9. Turn on the simulation canister and insert it into MyShield, as described in the *Simulation Canister Getting Started Guide*.
    a. Switch on canister
    Slide the canister power switch to the on position. The canister will buzz briefly.
    b. Insert canister into MyShield.
    c. Pull down the canister handle.
    d. Slide in the canister, making sure that the part of the canister labeled <<FRONT SIDE>> is facing the front of the MyShield.
    e. Turn the handle clockwise until the canister clicks.
    f. Fold the handle up until it clicks.
10. Install the MyShield bottom panel.

    Slide the bottom panel toward the back of MyShield until it clicks securely into position.

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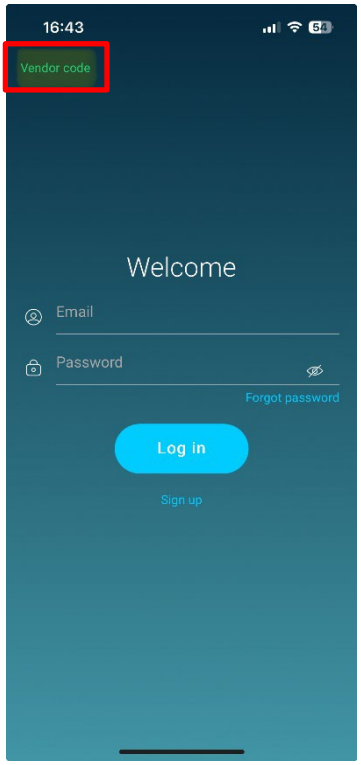
8. Install the Essence Smart Security Mobile App

Essence Security advises that the installer complete the installation process using their Smart Security mobile app. After completing the installation, assist the customer to complete installation and setup of the app on their smartphone.

1. Scan the QR code below or download the Essence Smart Security mobile application from the application store.

2. After installation, open the app.
3. Before registering for the first time, tap the **Vendor code** link in the top left corner of the screen.



4. Enter the code (provided by your vendor) and click **OK**.

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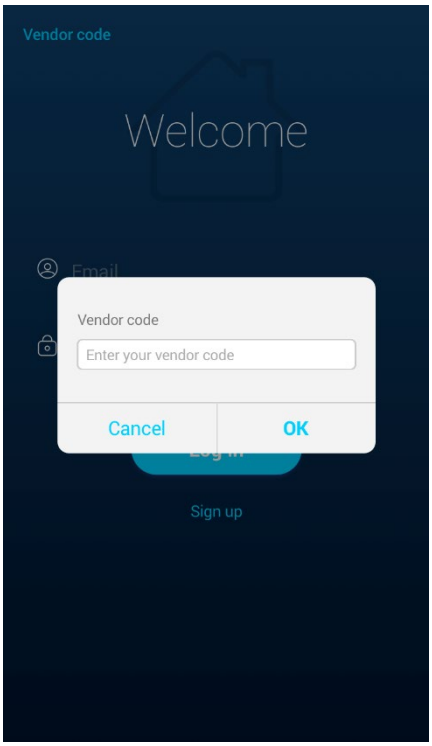

5. Read and accept the end user license agreement.

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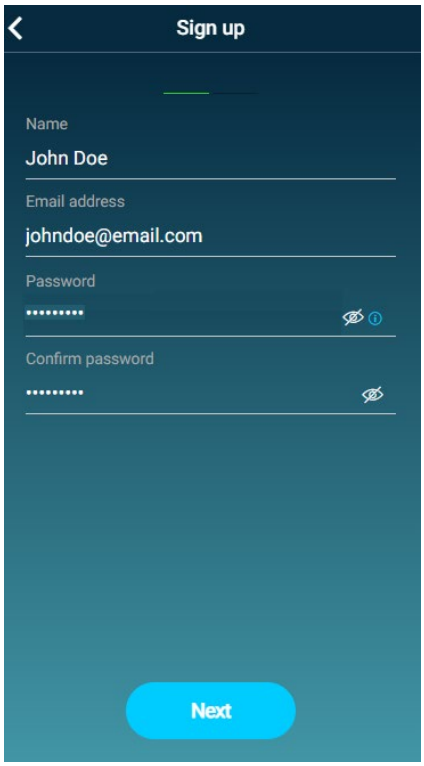
9. Enter the MyShield App

Existing users may click Login, new users will need to register as a New MyShield User:

1. On the Essence Smart Security app **Welcome** screen, click **Sign up**.
2. On the **Sign up** screen, enter name, email address and desired password, then click **Next**.



3. Confirm the email address by tapping the link in the confirmation email sent to the email address entered while signing up.

   If the confirmation email does not arrive, check the spam folder.

10. Setting the Language of the App

1. In the Essence Smart Security app, tap **Settings**.
2. Tap **Language** and select the desired language from the drop-down menu.

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11. Adding a new MyShield to the Essence Smart Security app

1. In the middle of the main screen, tap the plus sign (+).

> NOTE: The + sign will appear on the main screen of the app until a MyShield device has been added. Adding additional MyShields can be performed from the Devices menu.

2. When prompted, grant camera access permissions to the Essence Smart Security app.
3. Scan the QR code on the top of the MyShield or on the MyShield packaging

   Alternatively, manually enter the serial number for the device, which is located on the same QR sticker.

4. Define a name for this MyShield device.
5. Tap **OK** to add the device.

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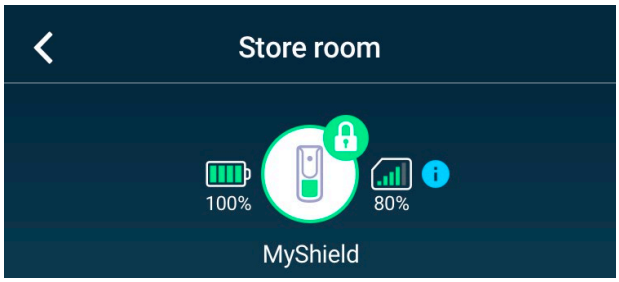
12. Test MyShield Operation

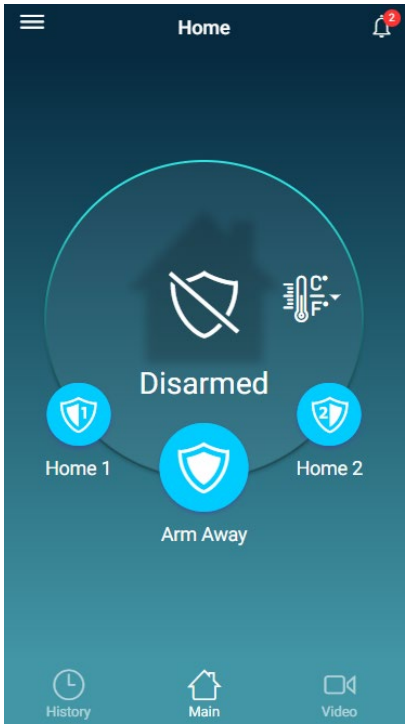
1. Remove the blue protection tape from the PIR.
2. In the Essence Smart Security app, open the hamburger menu and tap **Devices**.
3. Tap the name of the MyShield device.

   Operational information will be displayed for the selected MyShield device.



NOTE: In case of a tamper error message, call service providers help desk.

4. Verify that there are no error messages.
5. Return to the main screen and tap **Arm Away**.



6. MyShield requires a period of five minutes without detecting any movement before it will be able to register an intrusion event (motion).

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For this test - either the PIR cover over the MyShield PIR lens or leave the PIR FOV detection area - for 5 minutes. Wait a full 5 minutes to ensure that the PIR sensor is ready for detection.

NOTE: Repeat step 6 if repeating the test described at Test the Installation Location.

7. Remove the PIR sensor cover or walk within the PIR FOV detection area.
   - The PIR sensor will turn red momentarily indicating that movement has been detected.
   - The MyShield camera will automatically start recording. If the room is dark, a bright white LED will turn on to illuminate the scene.

NOTE: MyShield Next does not include camera functionality and thus these video and image related steps may be irrelevant depending on the device being installed. All other functionality remains the same.

   - Push Notification will be sent to the linked mobile phone(s) and the Essence Smart Security Mobile App will:
     - Sound an alarm
     - Notification will be shown by the app
     - A red intrusion screen will be displayed in the MyShield app.
   - MyShield should emit a voice announcement three times.
   - A red intrusion screen will be displayed in the MyShield app.
8. Wait until notification message is received stating that a security video was added.
9. Tap **Take action** to video the video.

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NOTE: MyShield Next does not include camera functionality and thus these video and image related steps may be irrelevant depending on the device being installed. All other functionality remains the same.

10. Tap **Activate** to simulate triggering smoke release.

NOTE: Since you are using a simulation canister, no smoke will actually be released.

- A “Deploying smoke – clear the area” warning announcement should be heard from MyShield.
- The smoke-release door on the bottom of the MyShield should open, and a beep should be audible - simulating smoke triggering.
- MyShield should take a confirmation photo of the area.

NOTE: MyShield Next does not include camera functionality and thus these video and image related steps may be irrelevant depending on the device being installed. All other functionality remains the same.

11. After the confirmation photo is displayed on the app, tap **OK** in the top right corner.
12. Disarm the system.
13. After an intrusion event, the MyShield must be reset by removing and reinserting the canister and battery.

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13. Perform an Intrusion Test with the Monitoring Center

If using a monitoring center service - call your helpdesk and request that they configure the newly installed MyShield to the Monitoring Center via the Admin Center web portal.

Perform the following intrusion test to ensure that the camera and audio function properly. If a monitoring center service is not being used – skip to the following section: **Replace the Simulation Canister with a Live Smoke Canister**.

1. Contact the monitoring station and request that they arm the MyShield.
2. Repeat steps 6-8 as described at Test MyShield Operation above:
    a. Either install the PIR cover over the MyShield PIR lens or leave the PIR FOV detection area - for 5 minutes.
    b. Remove the PIR sensor cover or walk within the PIR FOV detection area.
    - The PIR sensor will turn red momentarily indicating that movement has been detected.
    - The MyShield camera will automatically start recording. If the room is dark, a bright white LED will turn on to illuminate the scene.
    - Push Notification will be sent to the linked mobile phone(s) and the Essence Smart Security Mobile App.
    - MyShield should emit a voice announcement three times.
3. Request that the monitoring center verify the detection video.

NOTE: MyShield Next does not include camera functionality and thus these video and image related steps may be irrelevant depending on the device being installed. All other functionality remains the same.

4. Instruct the monitoring center to deploy the MyShield device.
5. Disarm the MyShield.

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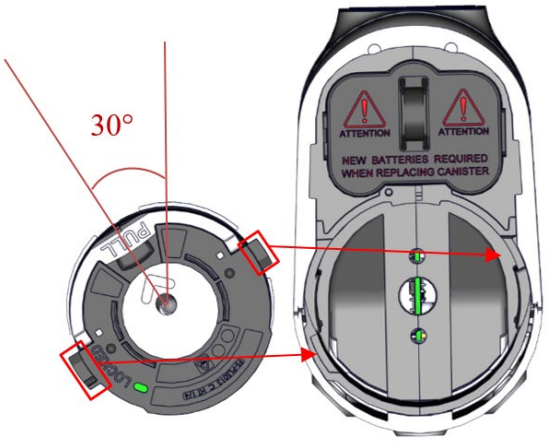
14. Replace the Simulation Canister with a Live Smoke Canister

If all testing was successful, the installation should be completed by replacing the simulation canister with a real smoke canister.

1. Slide and remove the MyShield bottom cover.
2. Remove the simulation canister and turn it off.
3. Remove the battery cartridge (to reset the device).
   Wait several seconds.
4. Reinsert the battery cartridge.
5. Fold out the handle on the live smoke canister.

6. Align the canister and slide it into MyShield until it stops.
   Pay attention to the canister orientation:
   - The arrow (under the pull tab) should face the front of the device. The canister additionally has a sticker indicating Front.
   - Note the two asymmetrical canister wings and their corresponding slots on the MyShield.
   - Note that the canister should be inserted at a 30° counterclockwise rotation.



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7. Rotate the canister clockwise 30°until it clicks.

8. Fold the canister handle up until it clicks. MyShield will beep. The LED will illuminate green and then flash red.
9. Reinstall the bottom cover.
10. Wait for the audible cellular reception test result announcement.
11. Verify that the PIR cover is not forgotten on the MyShield.

    Installation is now complete.

NOTE: The system is now live with the real smoke cannister. Activation will deploy actual smoke.

NOTE: When working with a monitoring center, verify that MyShield has successfully connected to the monitoring center.

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Appendix A Canister Safety Data Sheet (SDS)

The Safety Data Sheet (SDS) for the MyShield smoke canister can be accessed online:
https://4543881.fs1.hubspotusercontent-na1.net/hubfs/4543881/PDF%20WEBSITE/MyShield/english/myshield_panzera_safety_datasheet.pdf

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Media Privacy Compliance

Many laws prohibit recording a person in a private environment without their consent. Those laws make it a criminal offense to covertly record a person in a private environment. Yet in many cases, the law does allow this kind of recording if it is made for the purposes of safety and security, so long as proper signs are posted notifying of the video recording. You must therefore follow these two rules:

1. *You may only use the product for legitimate security purposes (and not, for example, for any obscene, lewd or improper purpose)*

   AND

2. *You must post a clear sign of the use of surveillance camera that is sufficiently conspicuous to be observed by any person who may be captured by the camera.*

For more information, please contact your local Essence Security representative.

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