

## 1. INTRODUCTION

This Installation Guide explains how to install and configure the following Spintly devices in different configurations

- Spintly SMACC-UNO-X2
- Spintly NUOS (1-Door Controller)
- Spintly Fi-B Gateway

## 2. PRIOR TO INSTALLATION

- The installer should be aware of the existing door infrastructure of installation site, such as hardware and nearest power outlet
- All cabling and wiring shall be UL Listed and/or UL Recognized
- Spintly Fi-B Gateway should be mounted within 60 meters of the nearest Spintly device.
- Power supply selected should be capable of driving the locking mechanism. Please check locking mechanism specifications for its details.

### 2.1. TOOLS

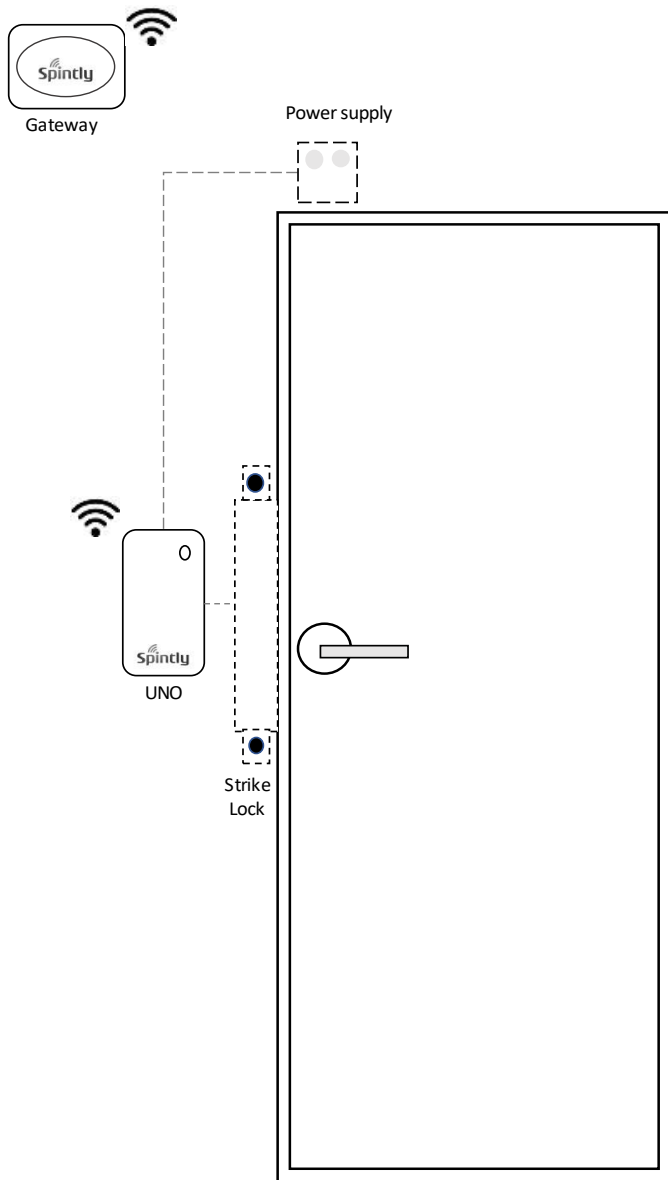
- UL rated 18 -24 AWG wires
- Slotted and Philips head screw driver set
- Wire cutters/Strippers
- Electrical tape
- Electric Drill
- Suggested – Multimeter
- Wire connectors

### 3. SYSTEM CONFIGURATION

Following section depicts different configuration that the Spintly system can be deployed on a door based on the application requirement.

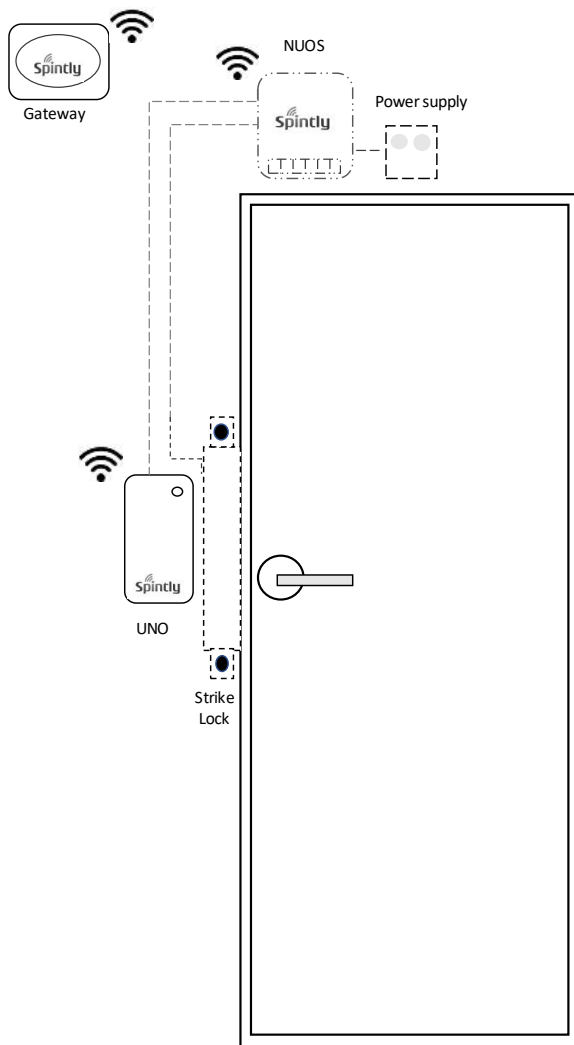
| Configurations                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Use Case                                                                                             | Limitations                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Entry Reader Only                | This configuration has the SMACC-UNO reader mounted on entry side of the door communicating to Fi-B Gateway over wireless mesh network.<br>The reader is responsible for controlling the locking mechanism of the door                                                                                                                                                                                                                                            | Used on interior doors where hardware security is required.                                          | The reader can be subjected to tampering to open the door.                                |
| Entry Reader + 1 Door Controller | This configuration consists of SMACC-UNO-X2 reader mounted on entry side of the door and the Spintly NUOS controller on the secure side of the door. Both these devices will be communicating to the Fi-B Gateway over wireless mesh network.<br>The NUOS reader is responsible controlling the locking mechanism of the door. Uno-X2 will read the credentials and communicate to the NUOS controller to unlock the locking mechanism if permissions are giving. | Used on perimeter doors where hardware security is required. Also enables different modes of access. | Increased number of components for installation and relatively longer installation times. |
| 1 Door Controller only           | This configuration uses the Spintly NUOS controller mounted on the secure side of the door communicating to Fi-B Gateway over wireless mesh network<br>The NUOS controller is responsible controlling the locking mechanism of the door.                                                                                                                                                                                                                          | Used on perimeter doors for hardware security.                                                       | Limited access modes available for the end user.                                          |

### 3.1. Configuration 1: Entry Reader Only



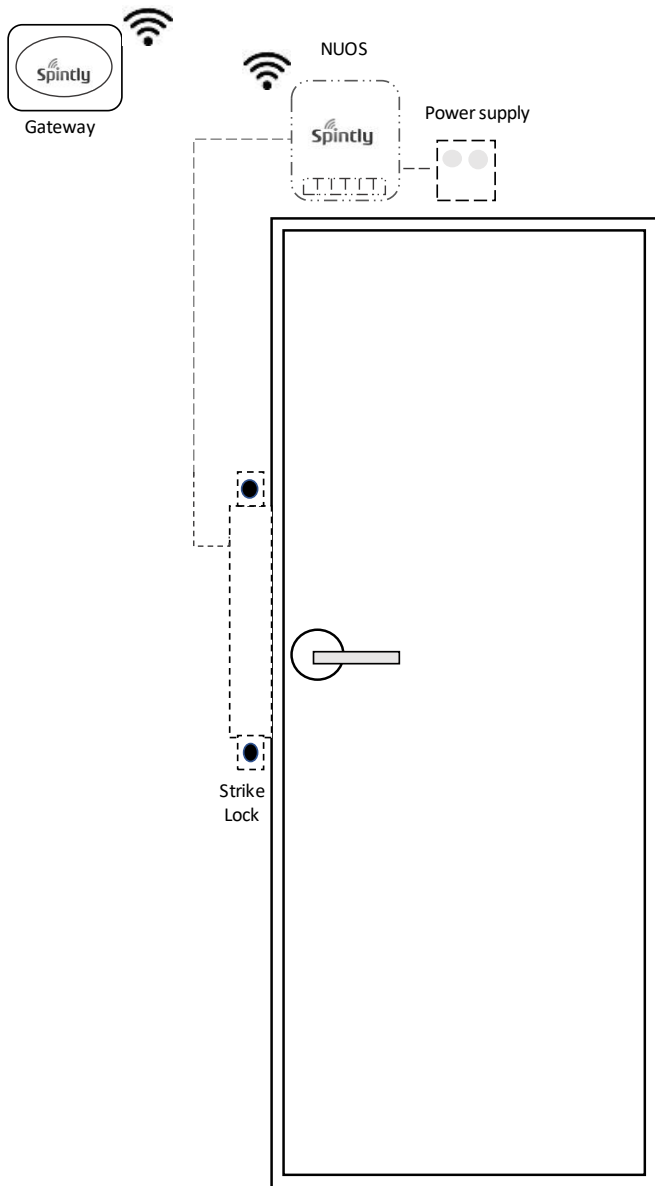
- Modes of Accesses that can be used in this configuration
  - Mobile Phone – Click to Access, Tap to access
  - Remote Access
  - NFC – Mifare Standard
- All the Events and Accesses on the door are sent to the Spintly cloud via the Fi-B Gateway over the wireless mesh network
- For wiring diagram, please refer to Sec 4.2.1 and 4.2.2.

### 3.2. Configuration 2: Entry Reader + 1 Door Controller



- Modes of Accesses that can be used in this configuration
  - Mobile Phone – Click to Access, Tap to access
  - Remote Access
  - NFC – Mifare Standard
- All the Events and Accesses on the door are sent to the Spintly cloud via the Fi-B Gateway over the wireless mesh network
- For wiring diagram, please refer to Sec 4.2.3 and 4.2.4.

### 3.3. Configuration 3: 1 Door Controller only



- Modes of Accesses that can be used in this configuration
  - Mobile Phone – Click to Access
  - Remote Access
- All the Events and Accesses on the door are sent to the Spintly cloud via the Fi-B Gateway over the wireless mesh network
- For wiring diagram, please refer to Sec 4.2.5 and 4.2.6.

## 4. INSTALLATION

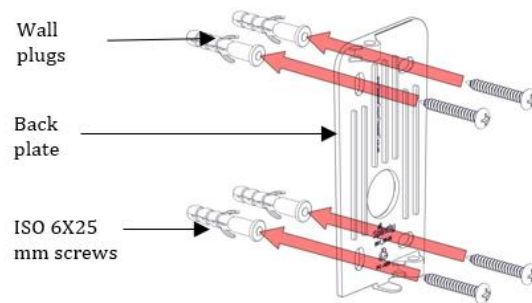
### 4.1. MOUNTING INSTRUCTIONS

#### 4.1.1. Spintly SMACC-UNO-X2 / SMACC-UNO – Mounting Instructions

- Contents in the Box

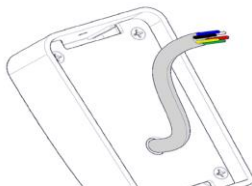
| In the Box               | Qty |
|--------------------------|-----|
| Spintly Smart Access Uno | 1   |
| Back plate               | 1   |
| ISO 6X25 mm Screw        | 4   |
| M3x8 mm Screw            | 2   |
| Wall Plugs               | 4   |

- Step 1



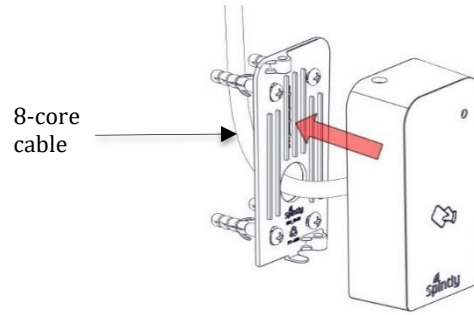
Mount back plate on the wall with the help of wall plugs and screws as shown above

- Step 2



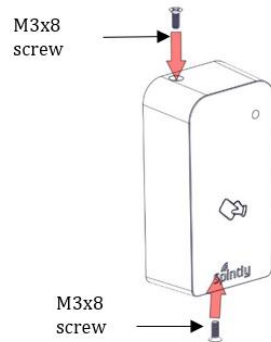
Do the wiring.  
Please refer wiring diagram for detailed connection in sec 4.2

- Step 3



Pass 8 core cable through back plate before mounting on the wall

- Step 4



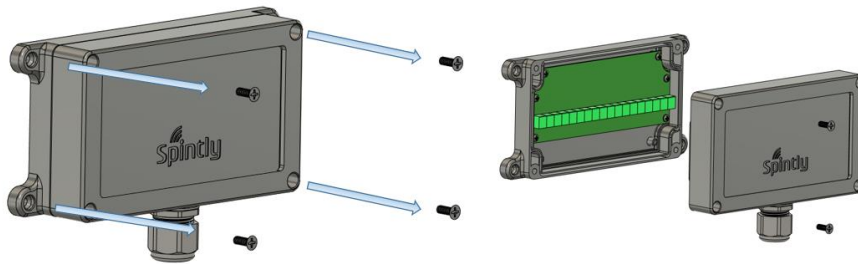
Mount Uno on the back plate with 2, M3 X 8mm screws

#### 4.1.2. Spintly NUOS (1-Door Controller) – Mounting Instructions

- Contents in the Box

| Item               | Qty      |
|--------------------|----------|
| Spintly NUOS       | 1        |
| 8 core cable       | 4 meters |
| ISO 6X25 mm Screw  | 2        |
| Instruction manual | 1        |
| Wall Plugs         | 2        |

- Step 1



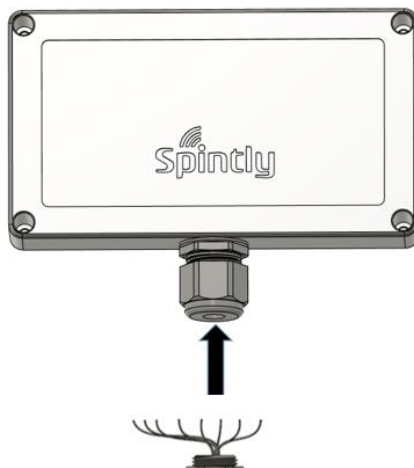
Unscrew the 4 screws as shown in the image above and open the enclosure.

- Step 2



Unscrew the cable gland screw counter-clockwise

- Step 3



Insert the wires through the cable gland and connect it to terminal blocks  
Please refer wiring diagram for detailed connection in sec 4.2

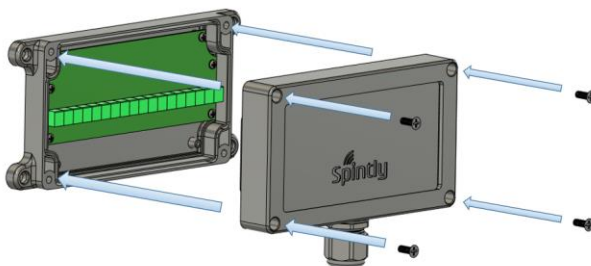


- Step 4



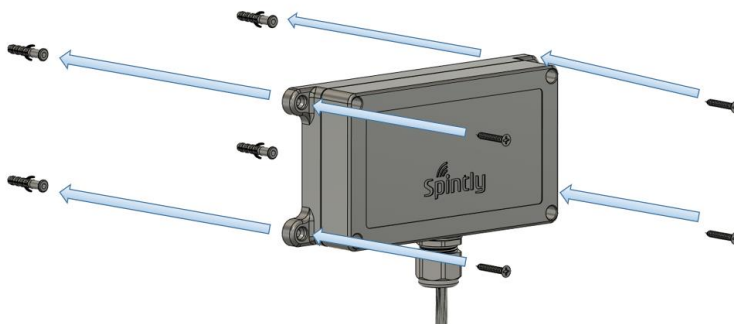
Tighten the cable gland in order to hold the wires in place

- Step 5



Mount the enclosure on the backplate.  
Insert the 4 mounting screws back and tighten them

- Step 6



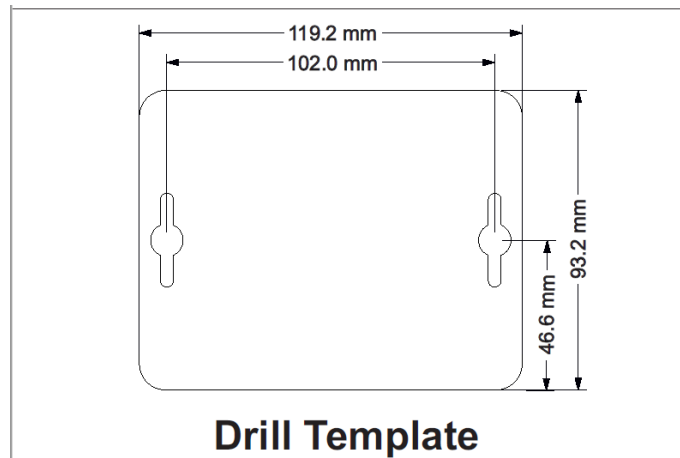
Drill 2 holes and insert 2 wall plugs.  
Mount the enclosure on the wall using 2 self-tapping screws and tighten them.

### 4.1.3. Spintly Fi-B Gateway – Mounting Instructions

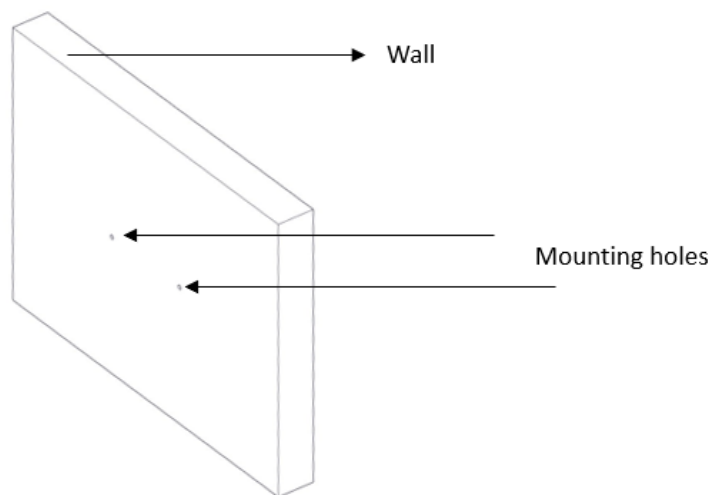
- Contents in the Box

| Item                    | Qty |
|-------------------------|-----|
| Spintly Fi-B Gateway    | 1   |
| Power Adapter           | 1   |
| ISO Screws (#6*25- PAN) | 2   |
| Wall Plugs              | 1   |
| Instruction manual      | 1   |

- Step 1

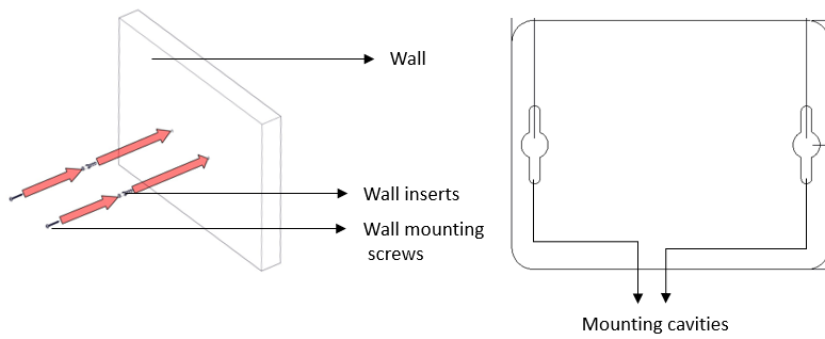


Drill template



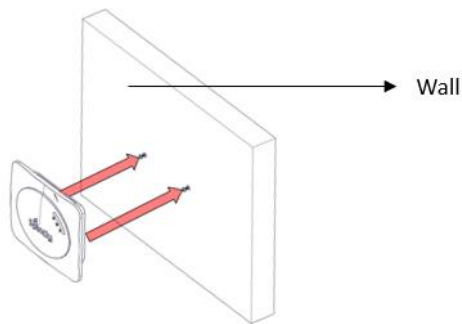
Mark the 2 hole's location on the wall and drill using Drill template shown in previous image (provided in Product Packaging box)

- Step 2



Put the wall inserts.  
Next put mounting screws into the wall  
inserts and screw them enough so the  
enclosure cavities can slide over the  
screw heads

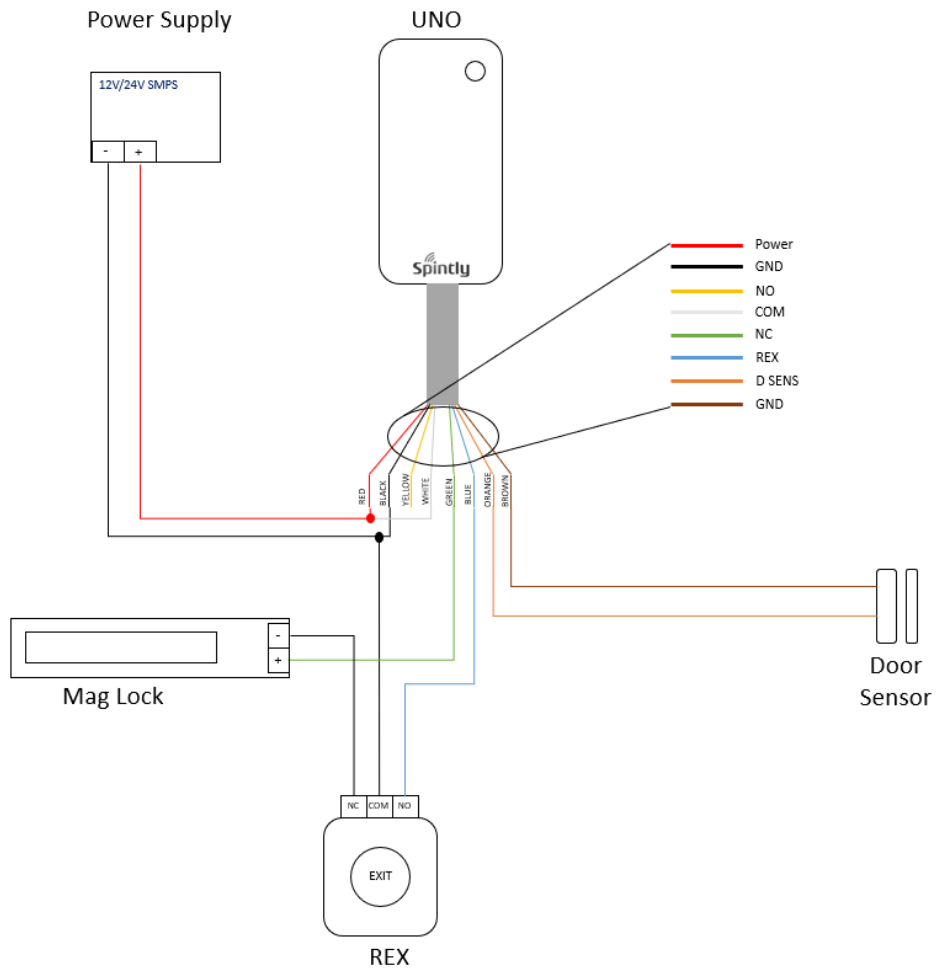
- Step 3



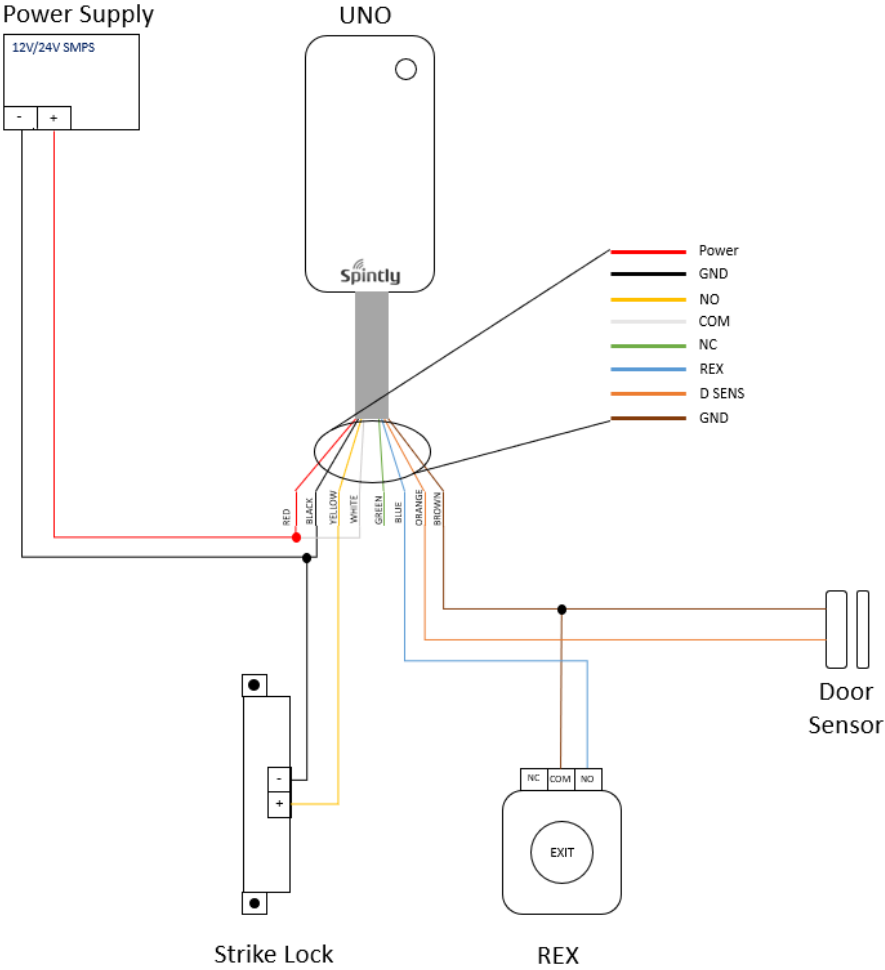
Align the cavities and mount the  
Gateway on wall

## 4.2. WIRING Diagram

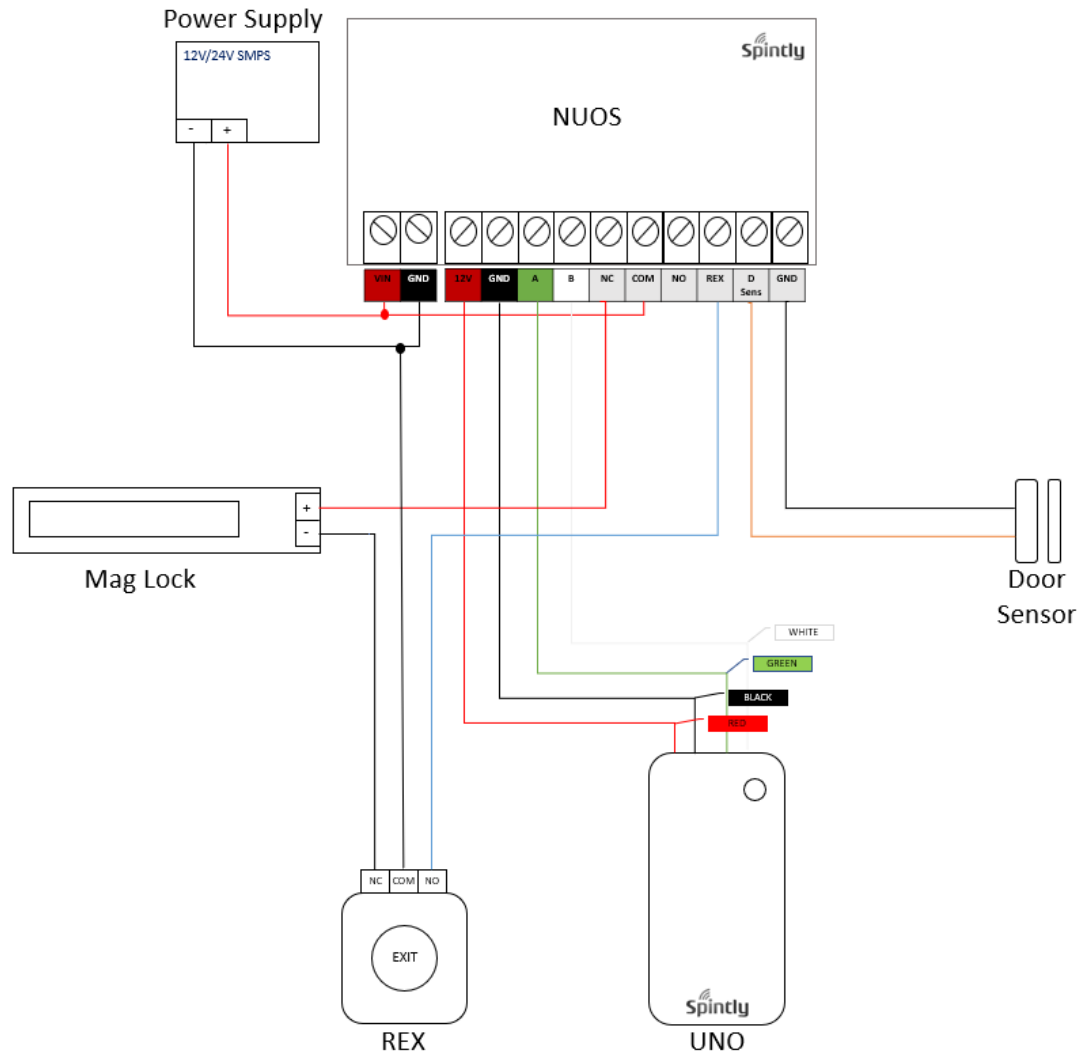
### 4.2.1. Configuration 1 – a: Reader with Mag lock



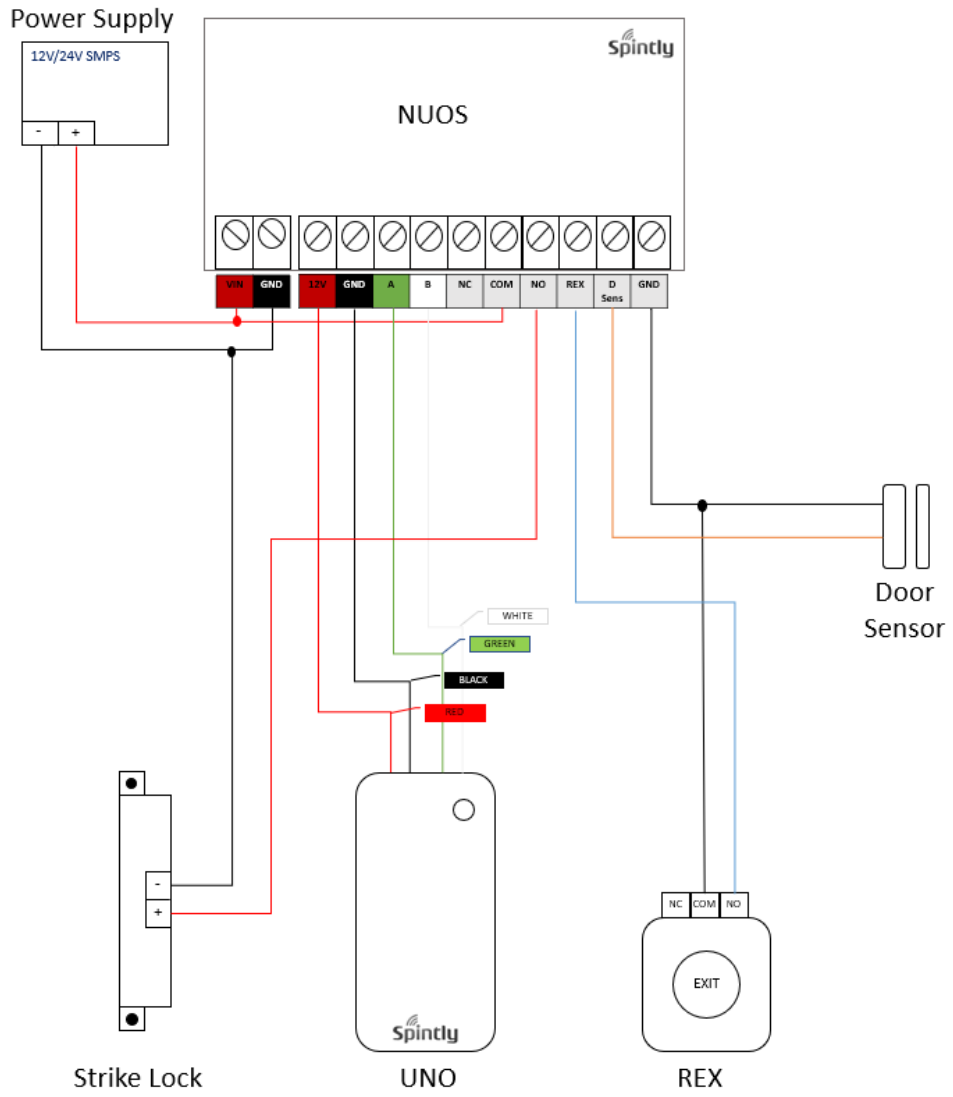
4.2.2. Configuration 1 – b: Reader with Strike lock



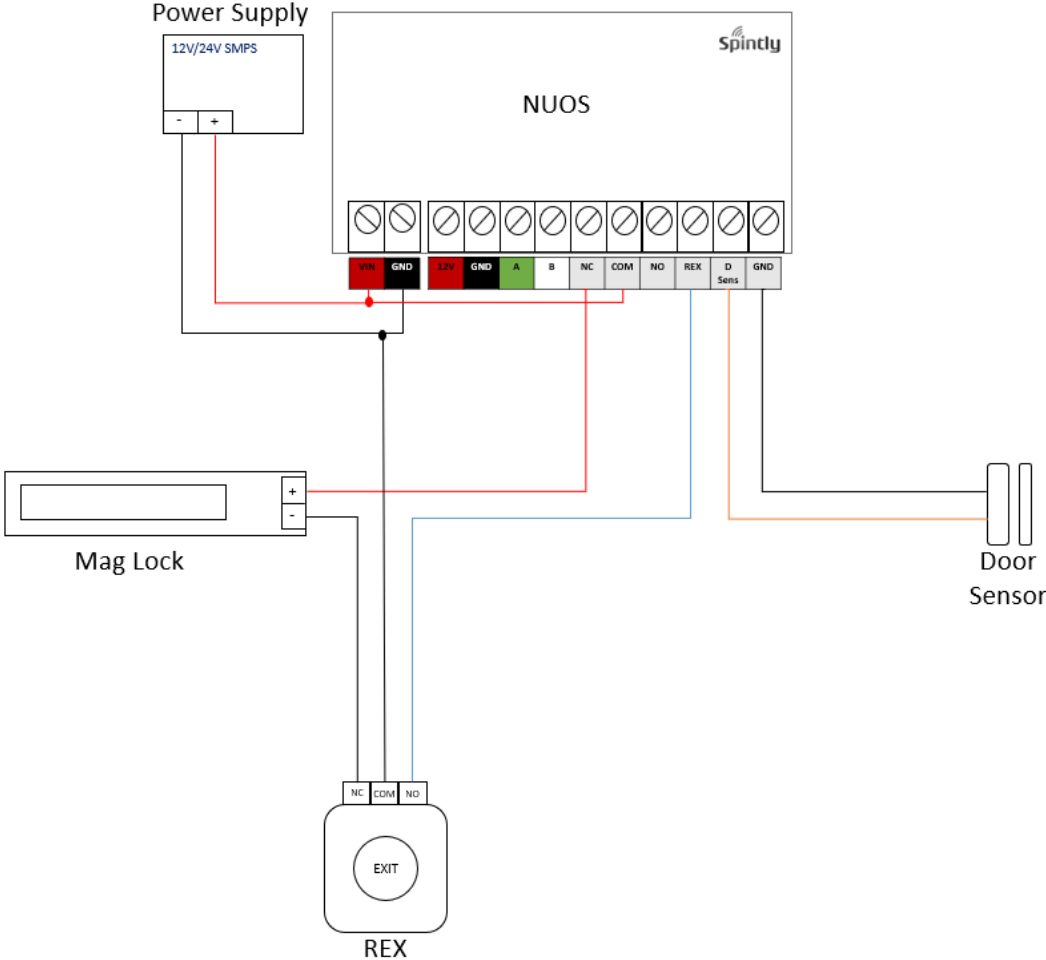
#### 4.2.3. Configuration 2 – a: Reader + NUOS with Mag lock



#### 4.2.4. Configuration 2 – b: Reader + NUOS with Strike lock



4.2.5. Configuration 3 – a: NUOS with Mag lock





4.2.6. Configuration 3 – b: NUOS with Strike lock

