

IP CONTROLLER

Wiring Guide

NHP-P100
NHP-P200
NHP-P400

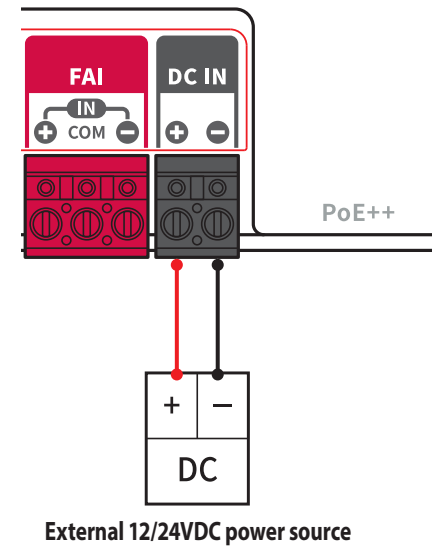


Powering the NHP-P100/P200/P400

The NHP-P100/P200/P400 can be powered via **DC IN** or **PoE+/PoE++**.

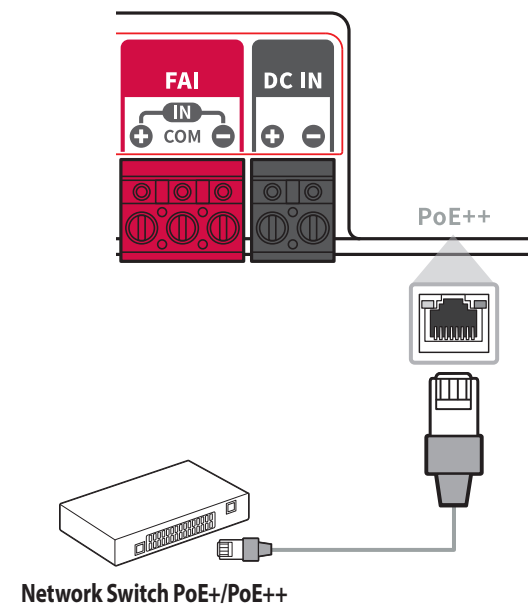
DC IN Wiring

1. Ensure voltage is correct from Power source.
2. Connect [+] from Powersupply to [+] of **DC IN** terminal.
3. Connect [-] from Powersupply to [-] of **DC IN** terminal.



PoE+/PoE++ Wiring

1. Connect network cable to switch Port/PoE+/PoE++ source.
2. Connect NHP unit to desired network cable providing **PoE+/PoE++**.
3. Inspect LED's.



Connecting the Reader

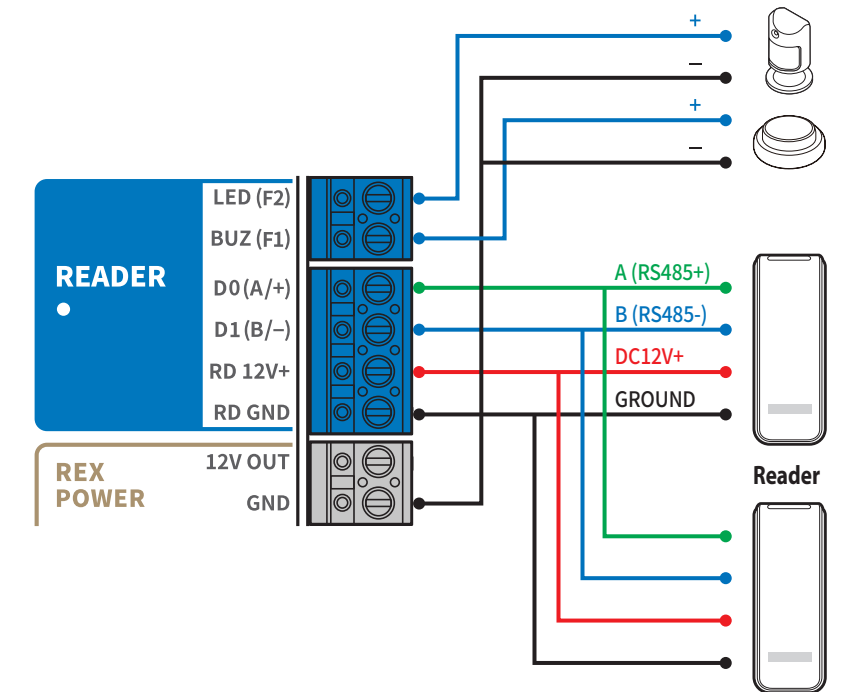
Reader Power can be supplied to the reader through the power terminal of controller (**RD 12V+**, **RD GND**).

OSDP Readers use the 4 pins inputs and Wiegand readers use 6 pins.

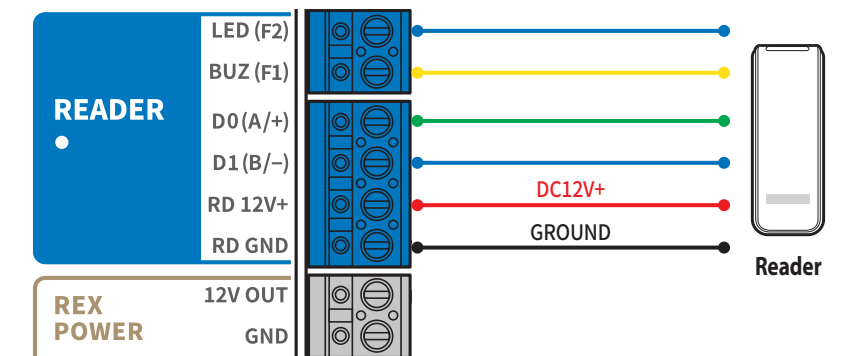
- **OSDP** : 12V+, GND, A, B
- **Wiegand** : 12V+, GND, D0, D1, LED, BUZ

LED and Buzz ports can be used as input ports when reader in OSDP. F1 and F2 are a positive signal, negative signal can be connected any ground pin in controller.

OSDP Reader Connection



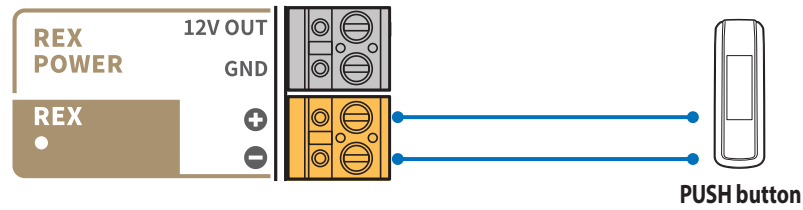
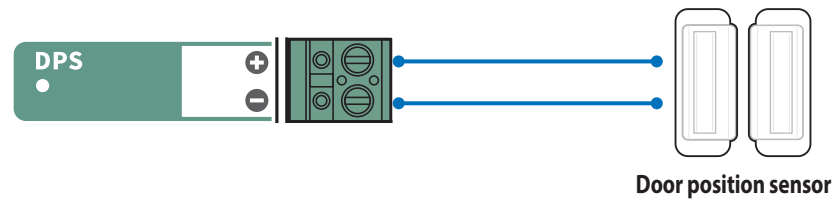
Wiegand Reader Connection



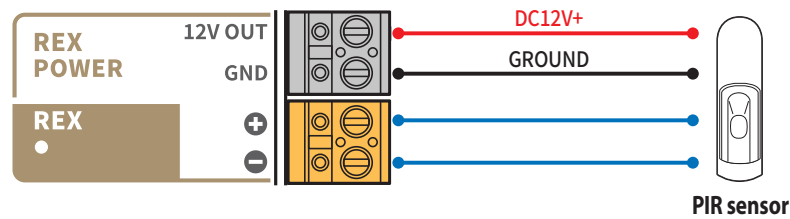
Connecting Inputs

Inputs are typically used for the following:

- To monitor door position
- Request to exit (either push button or PIR sensor)



- When PIR is needed instead of REX button, connect to 12V OUT, GND for PIR power.



Relay Output for Door Control

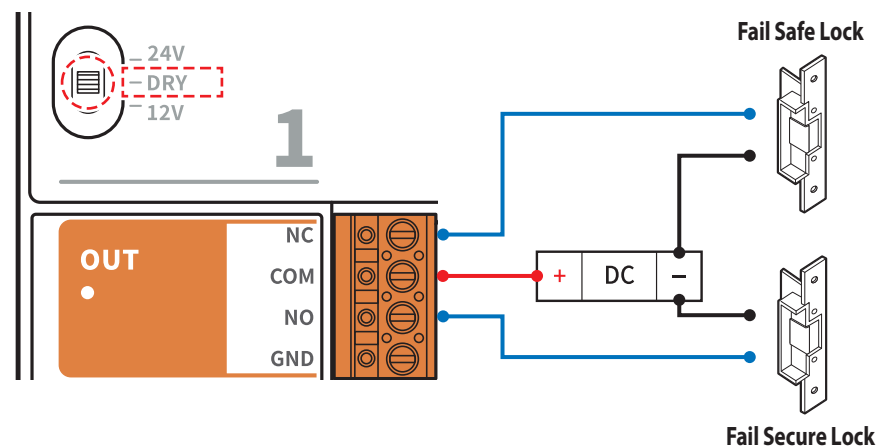
When it is used a DRY contact, ensure that [DRY] is selected on switch.

In a WET configuration, ensure that power switch for each door is set as follow:

- Set it to [12V] for 12V locking
- Set it to [24V] for 24V locking

- To protect the controller from electrical kickback, a flyback diode must be installed across the voltage input of the DC-powered lock. The diode should be connected between the positive [+] terminal and the ground [-] terminal of the electric lock.

Place switch to [DRY] for Dry contact



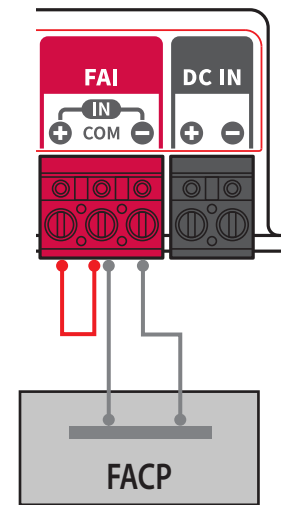
FAI (Fire Alarm Indicator)

Normally Closed

Fire Alarm Not Trigger

When an FACP have a normally closed for fire alarm, it should be connected to **FAI-** and **COM**.

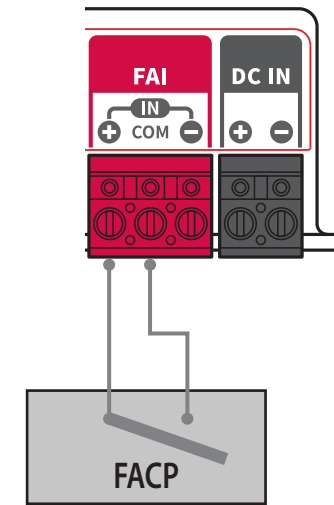
FAI+ and **COM** must be locally wired in this configuration.



Normally Open

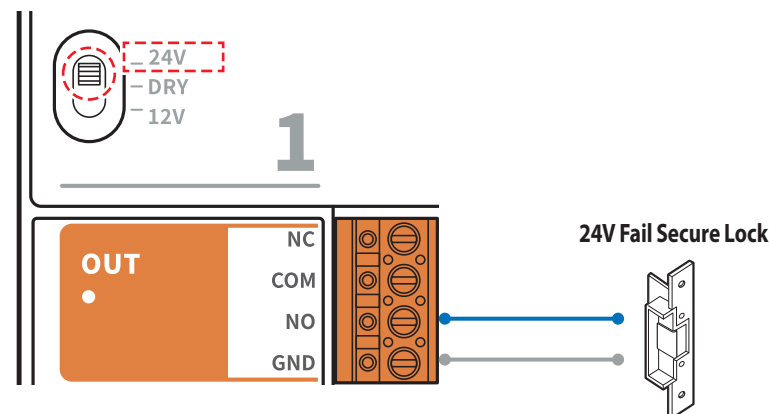
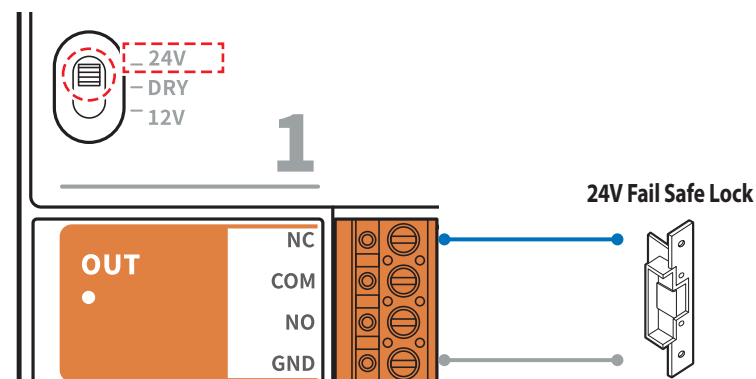
Fire Alarm Not Trigger

When an FACP have a normally open for fire alarm, it should be connected to **FAI+** and **COM**.



- If this Alarm is activated in controller, The 12V/24 power to all relay will be disable (All Wet locks will be Dry while the FAI is trigger).

Place switch for sourcing [24V] to lock



Place switch for sourcing [12V] to lock

