

SafezoneXID-500 Instruction Guide

Ver 0.3



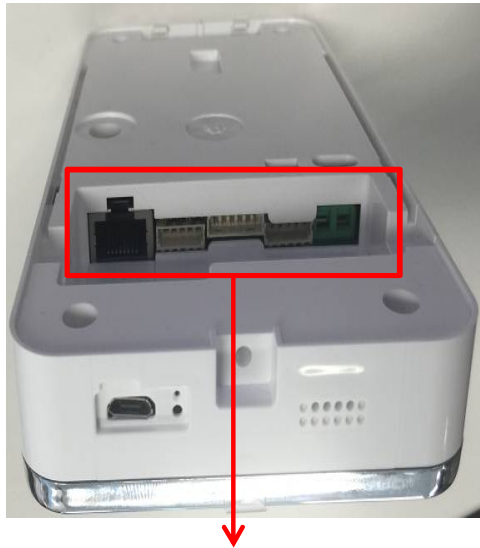
Safety Instructions

◆ The Following instructions ensure your safety and prevent any damage. Be sure to read the following instructions and use the product correctly

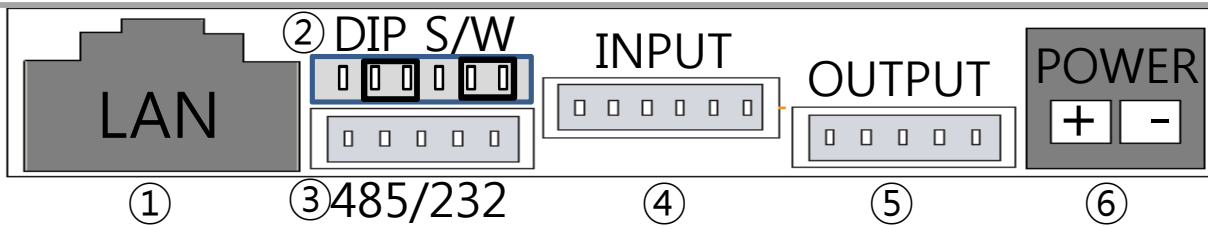
- ① Do not install the terminal in a place affected by direct sunlight, humidity, dust or soot.
- ② Keep the terminal away from magnets or anything containing magnetic material such as CRT, TV sets, computer monitors and speaker.
- ③ Keep the terminal away from heating products.
- ④ Do not put in water even though product have the IP-65 test certification.
- ⑤ Do not drop the terminal or subject it to heavy impact
- ⑥ Do not apply heavy pressure to the touch screen.
- ⑦ Do not disassemble, repair or reconstruct the terminal.
- ⑧ Do not use the terminal for any other purpose than original use.
- ⑨ In cases of product malfunction or problems, please contact a provider
- ⑩ Keep the product out of reach from people without authority

1. Port

1. Port



- ① LAN Port (for RJ-45)
- ② DIP S/W
 - R232 : Connect 2-3 and 5-6 with shunt
 - WIEGAND : Connect 1-2 and 4-5 with shunt
- ③ R485/RS232(WIEGAND) port
- ④ INPUT port
 - 1) INPUT1 : can be used when using EXIT Button
 - 2) INPUT2 : is indicating DOORSTATUS signal
 - 3) INPUT3 : Optional Input
- ⑤ OUTPUT port
 - 1) Electrical Lock connection
 - LOCK NO : NO connection
 - LOCK NC : NC connection
 - COM : COM connection
 - 2) LOCK TR : for external Relay (optional)
- ⑥ Power Connection



RS-485 (+)	RS-485 (-)	GND	RS-232 RXD (WIEGAND)	RS-232 TXD (WIEGAND)	
INPUT1 GND	INPUT1 (+)	INPUT2 GND	INPUT2 (+)	INPUT3 GND	INPUT3 (+)
LOCK NO	COM	LOCK NC	LOCK TR(+)	LOCK TR(-)	

1. 단말 포트

◆ Caution in connection of each port

1) Power

- * SMPS or Adaptor : Installer should check the voltage level if it is 12V
- * Since including Adaptor have FGND so that Installer should check FGND with Adaptor

2) RS232/WIEGAND Dip-switch install

* RS232 : Set as 2-3 and 5-6



* WIEGAND : Set as 1-2 and 4-5



3) LOCK Control

- * In case of emergency status like blackout or power failure, Operator can use NC or NO

2. Network Setting

2. 네트워크

◆ Notice for connecting LAN jack

- Should be check the connection of hook
- Prevent the substance in the RJ-45
- The following Icon indicates the network condition



→ Link down, please check the cable connection



→ Link up, physical connection is ok but need to check the setting such like IP.



→ Link up and activation of data are OK.

3. EM / Deadbolt / Strike (One-direction Installation)

3. EM / Deadbolt / Strike

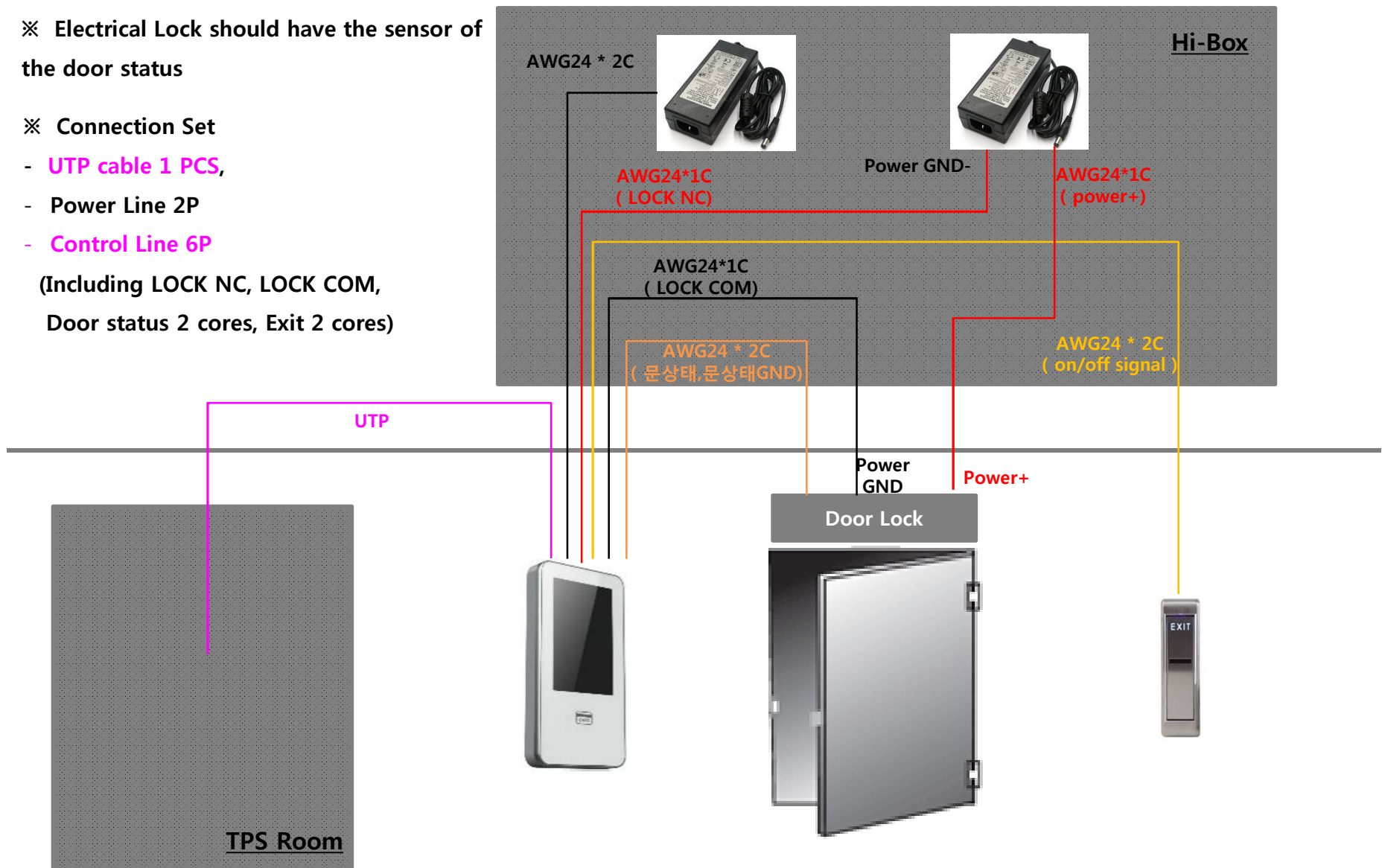
One-direction Installation

※ Electrical Lock should have the sensor of the door status

※ Connection Set

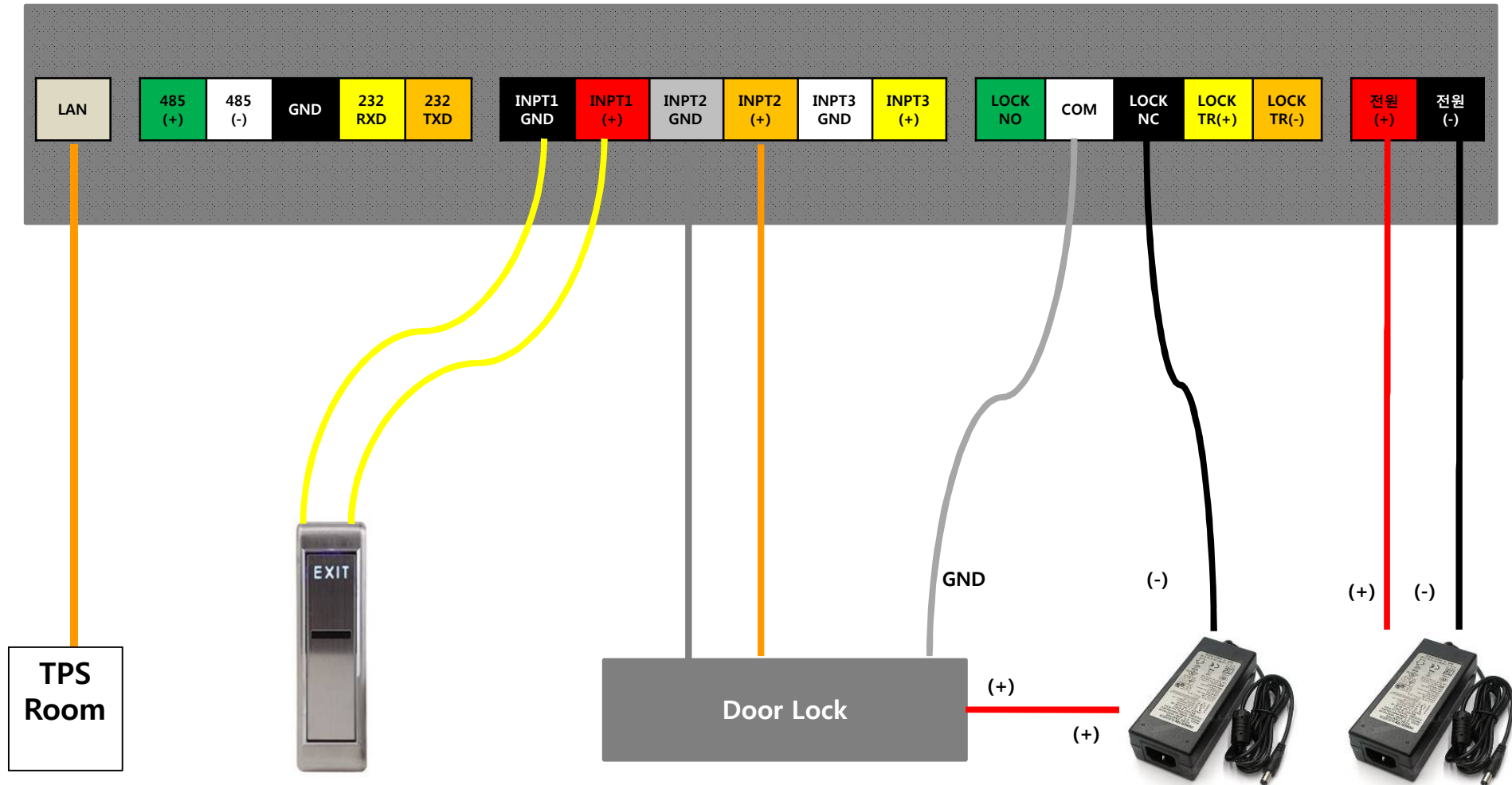
- UTP cable 1 PCS,
- Power Line 2P
- Control Line 6P

(Including LOCK NC, LOCK COM, Door status 2 cores, Exit 2 cores)



3. EM / Deadbolt / Strike

One-direction Installation



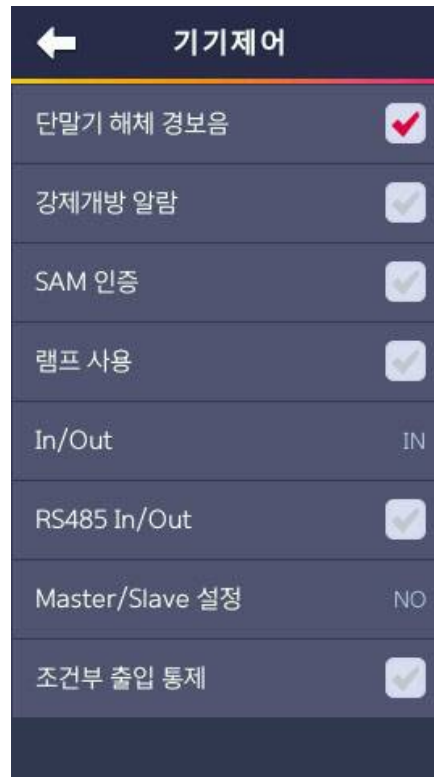
3. EM / Deadbolt / Strike

One-direction Installation



[Operation Mode]

→ Set to “출입”



[Manager] > [Controller]

- Set to “단말기 해체 경보음”
- In/Out : Set on the specific purpose



[Manager] > [LCM]

- LCM유형 : None
- DoorLock 설정 : Set on purpose of Lock type
- Input#1(InsideOpen) : NO
- Input#2(Door Status) : Set on purpose of the status door type
- Input#3(Lock Status) : None

◆ Abnormal LOCKing

1. In case of the operation of LOCK is reversed :

1) Confirm the setting of LCM as "RelayOut#1"

2) Check the wire connection it is LOCK NC or NO.

-ex) Fail safe type should be set as LOCK NC.

3) Check the wire connection between XID-500 LOCK port with the electric LOCK

2. In case of unlocking, even though tagging RF-CARD :

1) Check the adjust setting of LCM.

2) Be sure the power coming form Adaptor or Power source

3. In case of the Deadbolt Lock (when door is closed, Deadbolt is not operated)

1) Confirm the setting of LCM

2) Check the position of the magnetic on the sensor

3) Check the door-icon of XID-500

4) Be sure the power coming form Adaptor or Power source

◆ Abnormal Door status sensing

1. In case of the operation of the Door status is reversed :
: Check the wire connection and the setting of LCM is proper setting NC/NO

2. The door status is no changed :
 - 1) Confirm the wire connection and the setting of LCM
 - 2) Check the door-lock have sensor can check door status.
 - 3) Even though above conditions have no problems, LOCK should be changed

3. Status change in more frequent
 - 1) Check the wire connection
 - 2) Change the Door-lock

4. EM / Deadbolt / Strike (Bi-directional Installation)

4. EM / Deadbolt / Strike

Bi-directional Installation

※ Electrical Lock should have the sensor of the door status

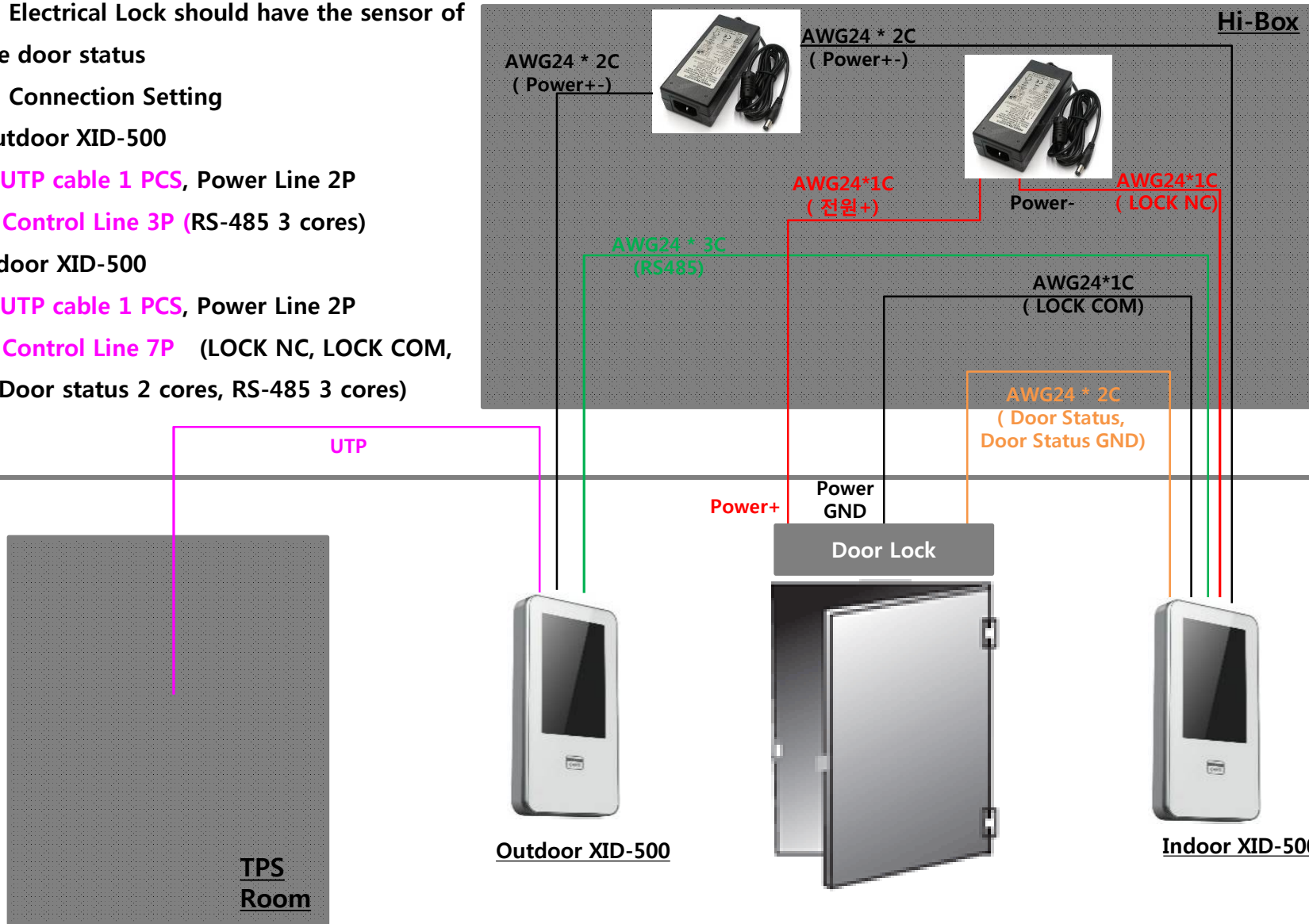
※ Connection Setting

Outdoor XID-500

- UTP cable 1 PCS, Power Line 2P
- Control Line 3P (RS-485 3 cores)

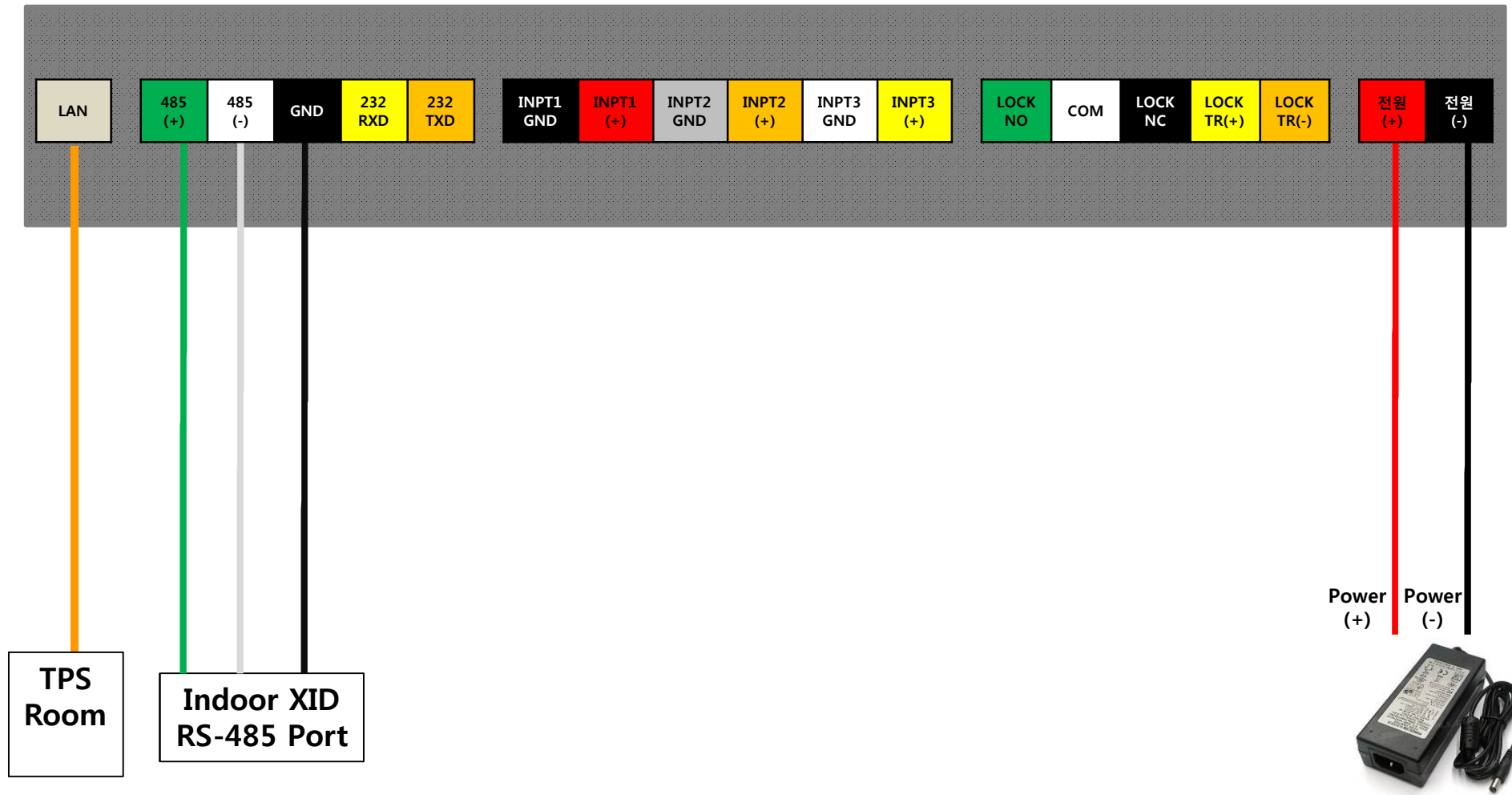
Indoor XID-500

- UTP cable 1 PCS, Power Line 2P
- Control Line 7P (LOCK NC, LOCK COM, Door status 2 cores, RS-485 3 cores)



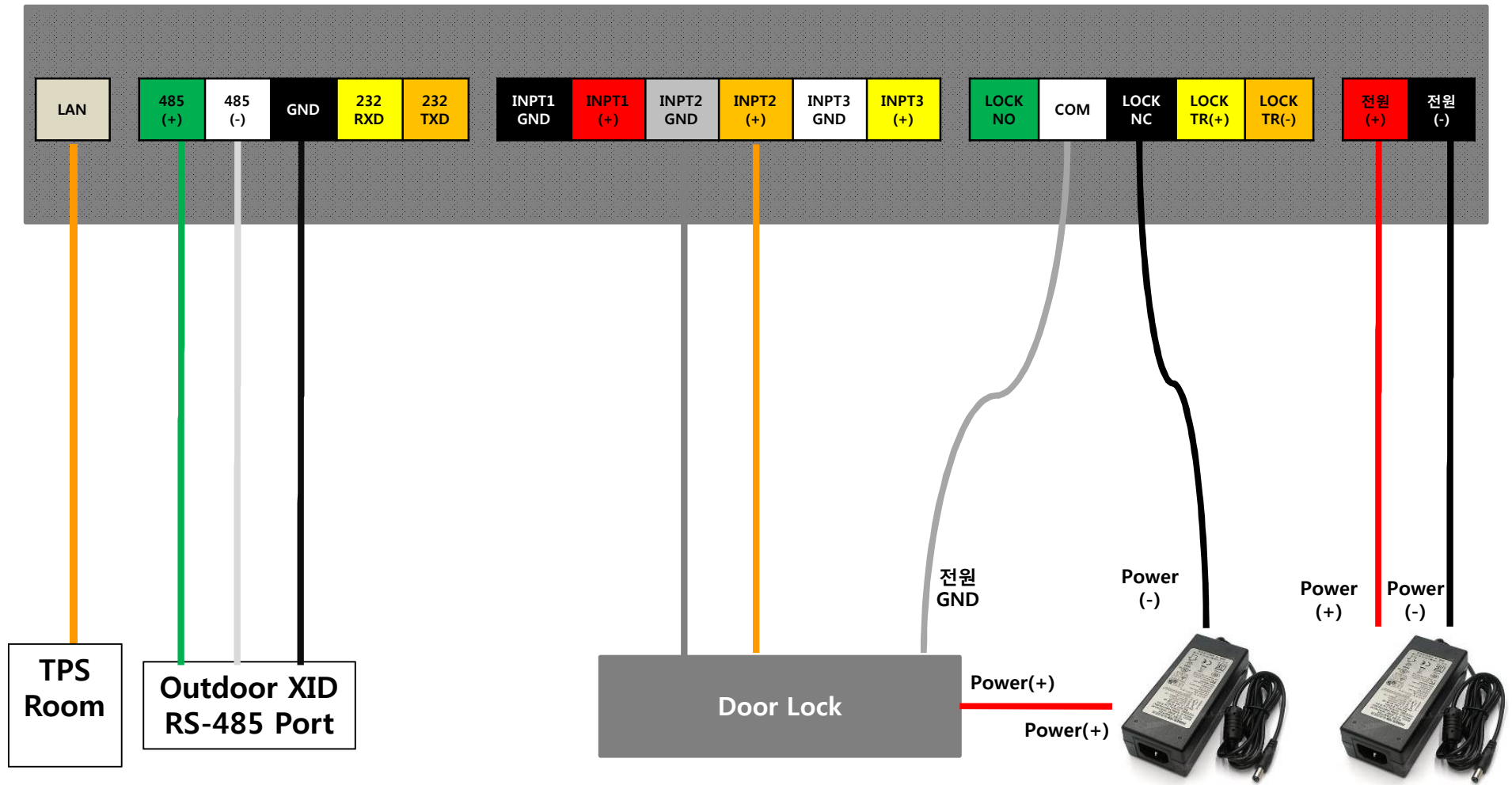
4. EM / Deadbolt / Strike

Bi-directional Installation – Outdoor XID



4. EM / Deadbolt / Strike

Bi-directional Installation – Indoor XID



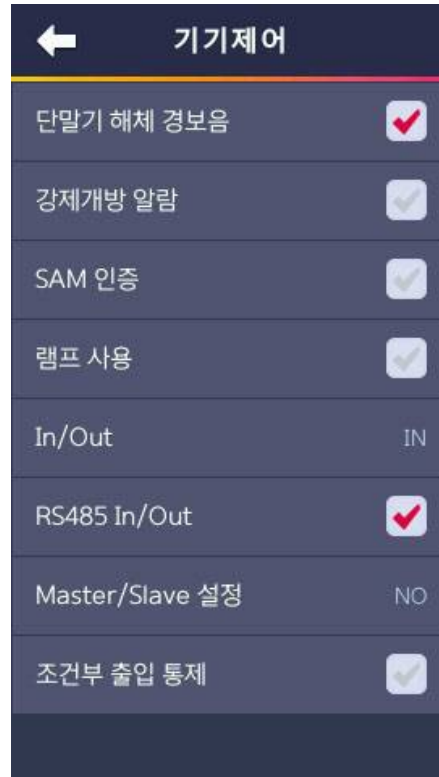
4. EM / Deadbolt / Strike

Bi-direction Installation



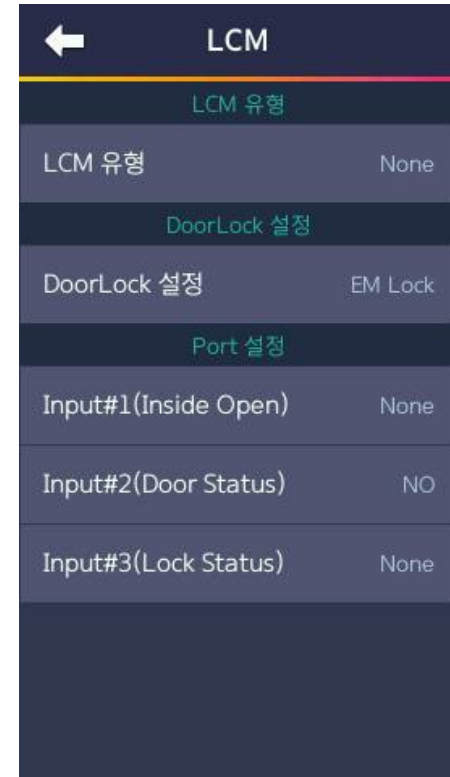
[운영]

→ Set to "출입"



[기기관리] > [기기제어]

- Set to "단말기 해체 경보음"
- In/Out : Set on the direction purpose
- Set to "RS485 In/Out"
- Make a role "Master/Slave"



[기기관리] > [LCM]

- LCM Type : None
- DoorLock 설정 : Set on purpose of Lock type
- Input#1(InsideOpen) : None
- Input#2(Door Status) : Set on purpose of the status door type
- Input#3(Lock Status) : None

◆ **Abnormal LOCK**

1. You can check the following when the door lock is not operated

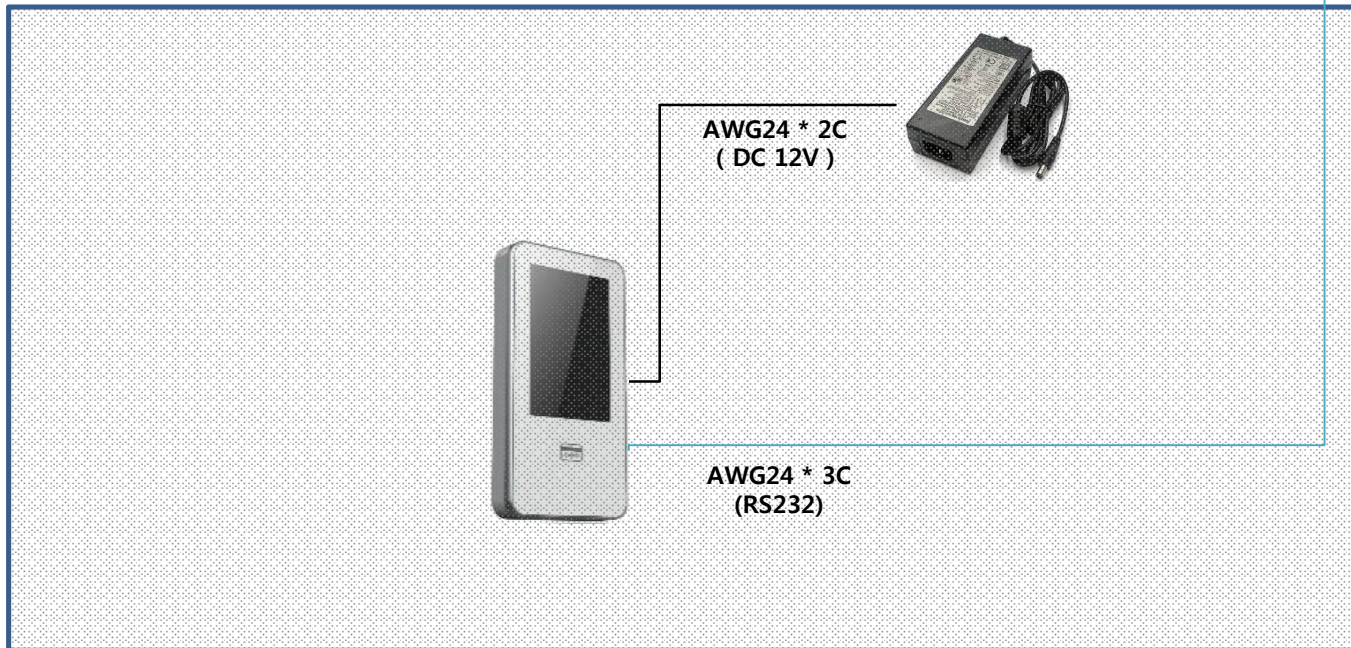
- Confirm the setting of RS485 IN/OUT
- Be sure the direction of XID-500 Indoor/Outdoor

※ Other notice will be same except above two conditions

5. Dummy

5. DUMMY

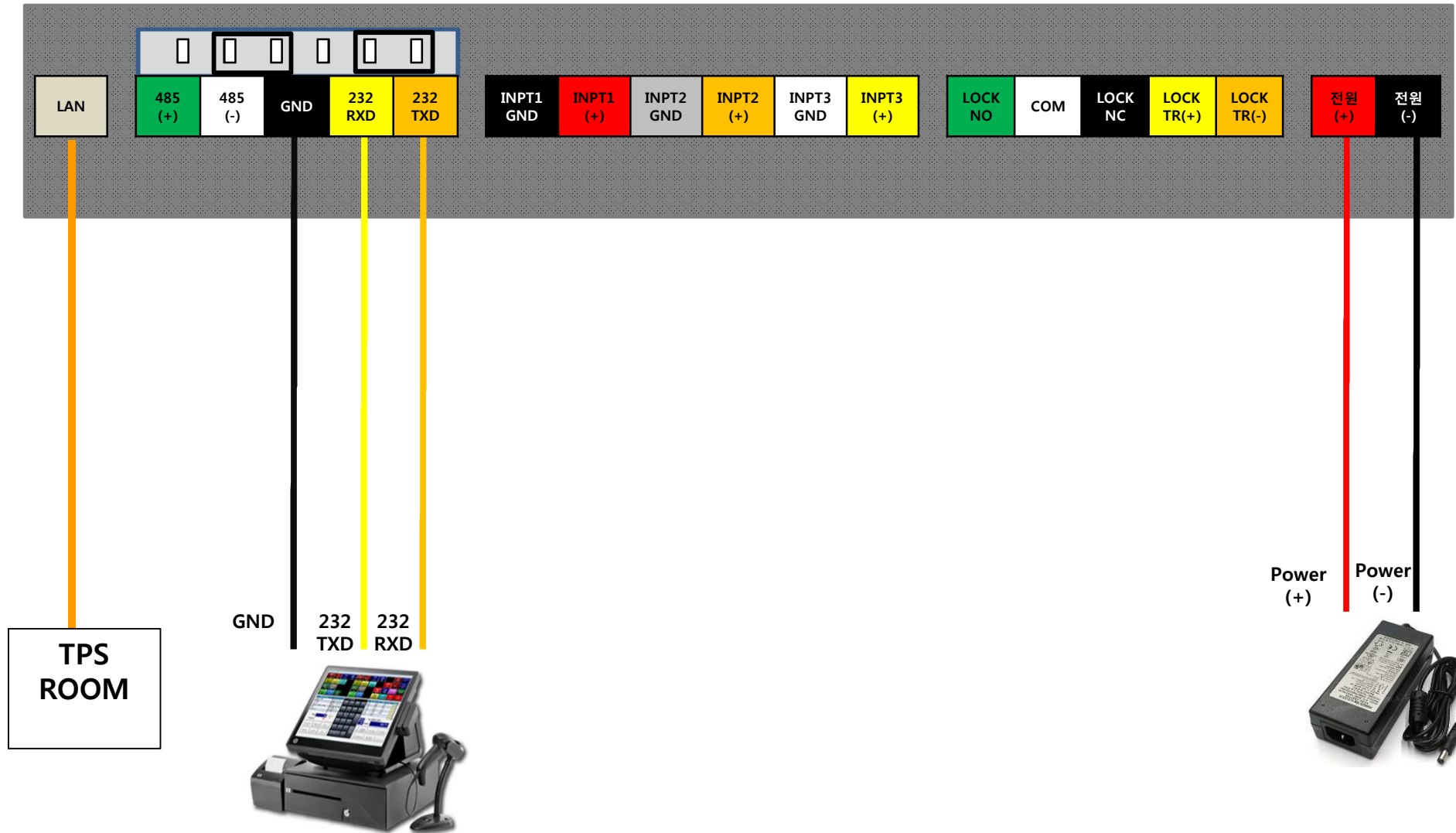
※ Please RS232 port of XID-500 with other device in order to operate the dummy mode



11. DUMMY

※ RS232/WIEGAND Header

- Check the shunt connection of 2-3 and 5-6





[운영]

→ Set to "Dummy"



[운영] > [Customize] > [Dummy설정]

→ Dummy Type : RS232

→ Select the type of message(Message, Card number)

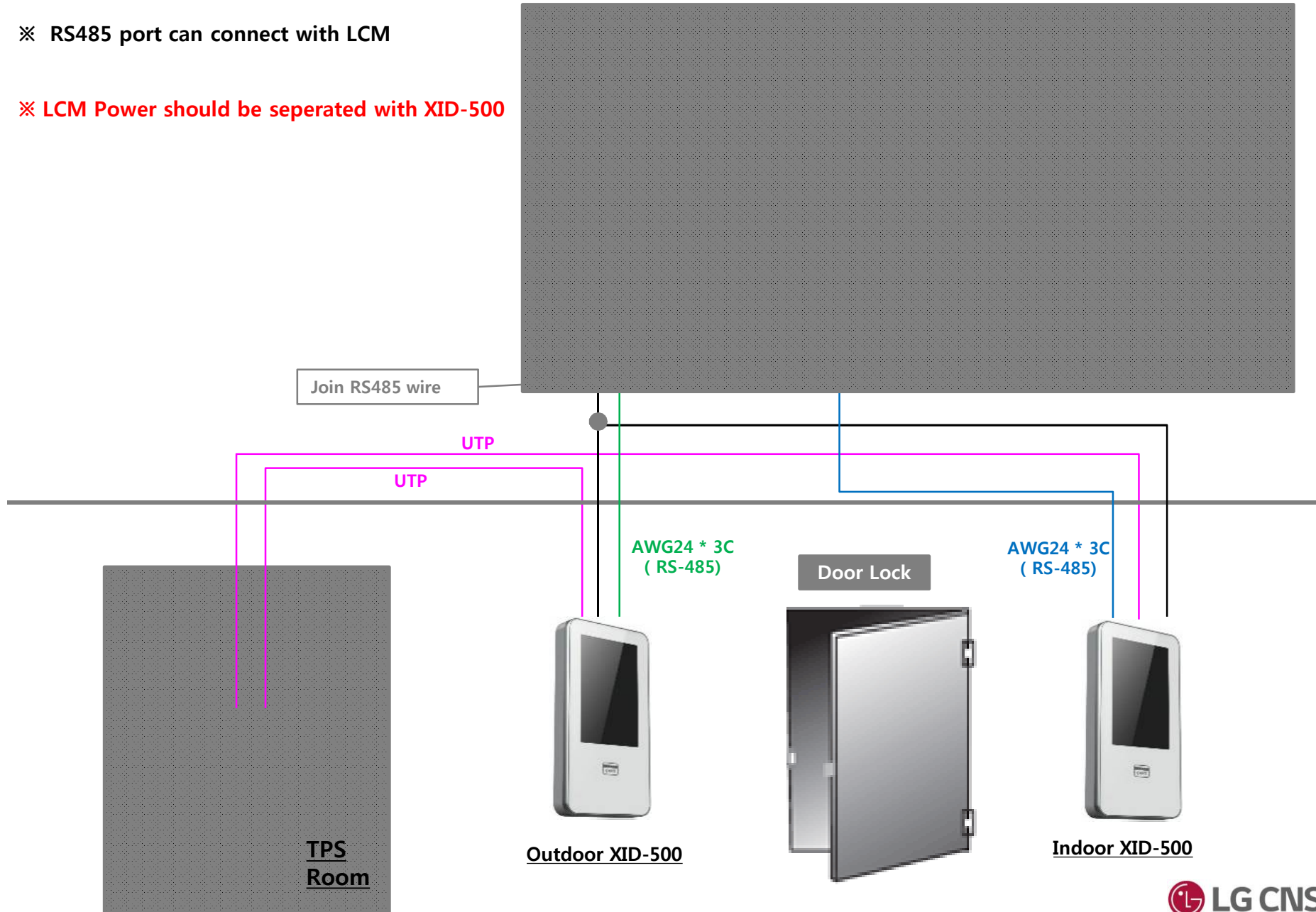
→ Confirm output mode

6. LCM Connection

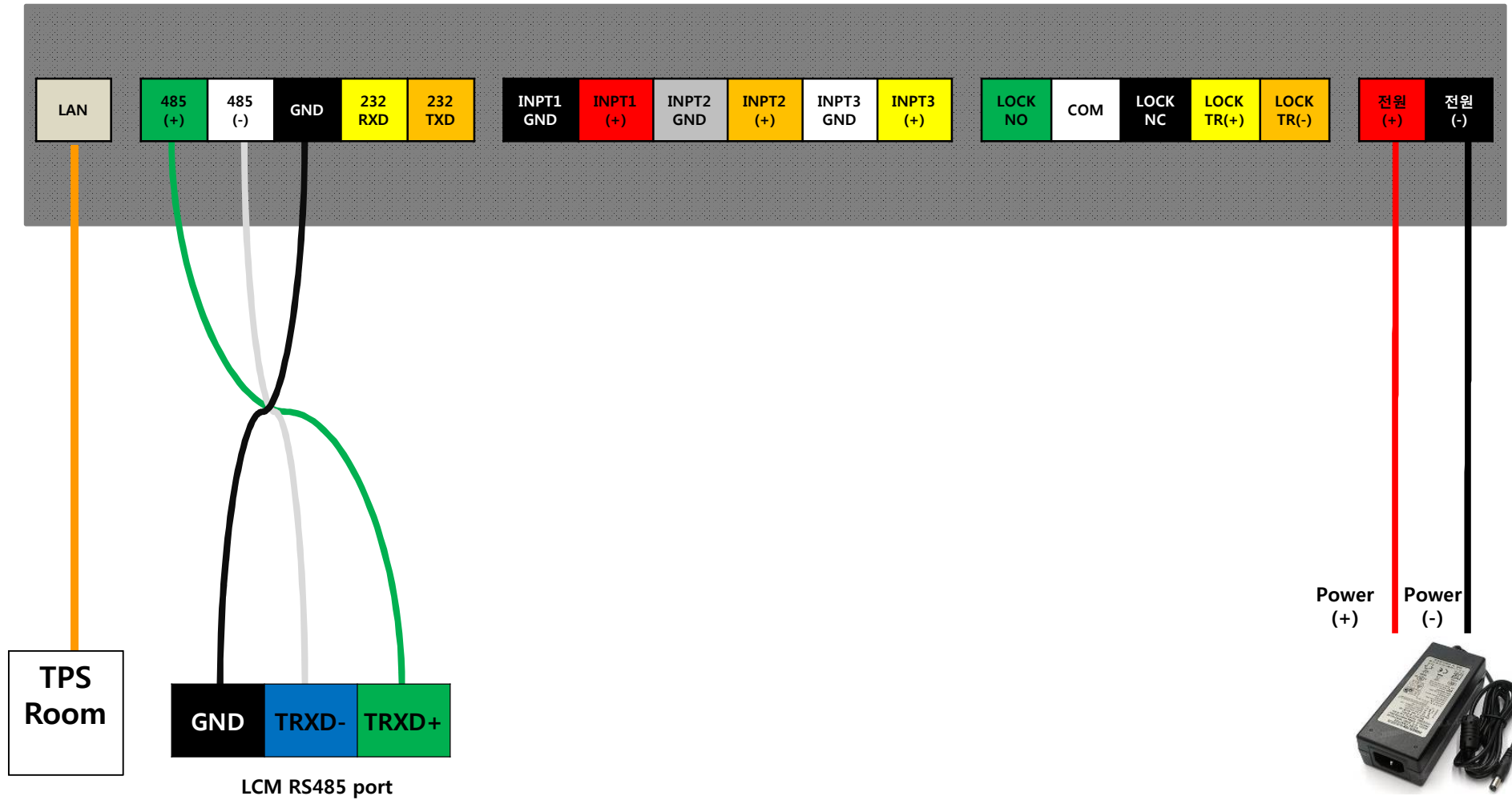
6. LCM Connection

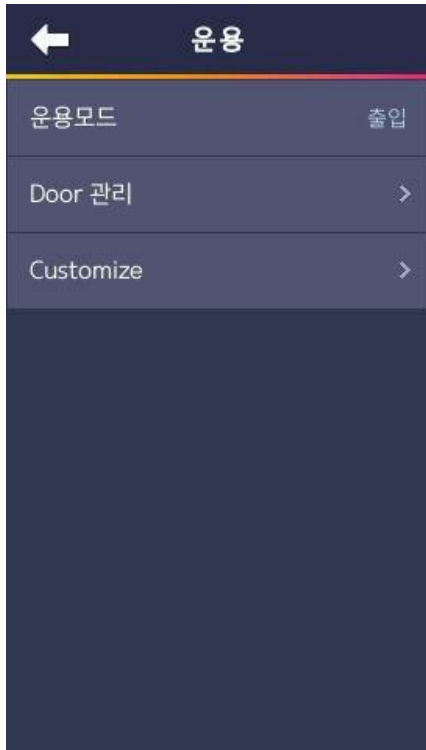
※ RS485 port can connect with LCM

※ LCM Power should be seperated with XID-500



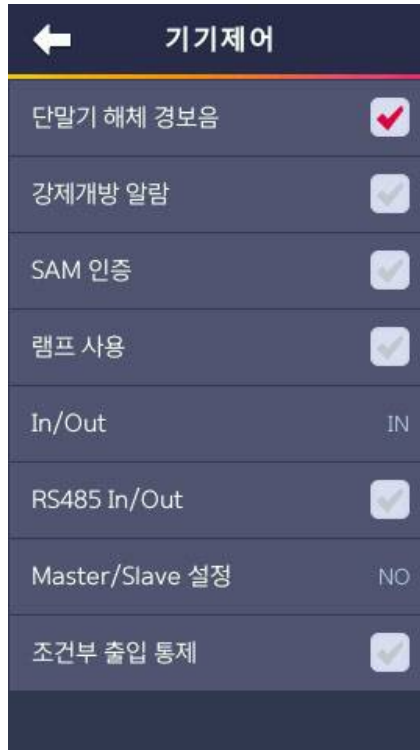
6. LCM Connections





[운용]

→ Set "운용모드" to "출입"



[기기관리] > [기기제어]

→ Set to "단말기 해체 경보음"
→ In/Out : Set on the direction purpose



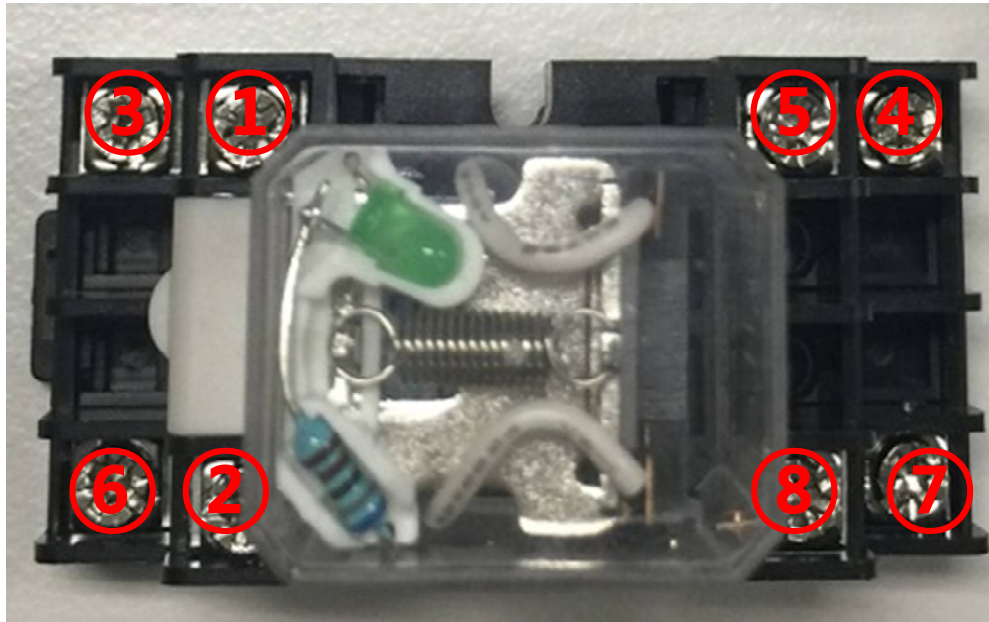
[기기관리] > [LCM]

→ LCM Type : XID3.0
→ DoorLock 설정 : None
→ Input#1(InsideOpen) : None
→ Input#2(Door Status) : NO or NC
→ Input#3(Lock Status) : None

7. Additional Relay

Additional Relay

◆ The method of additional Relay connection



The Relay capability should meet the minimum requirements of 12V/5A
Left image is showing 2 poles and 8 pins

To operate NC1 or NO1, connect Pole1.
To operate NC2 or NO2, connect Pole2.

- ① 12V power for the Relay coil
- ② 12V Coil Gnd
- ③ Pole1
- ④ NO1
- ⑤ NC1
- ⑥ Pole2
- ⑦ NO2
- ⑧ NC2

XID-500 Product Specifications

Item		XID5.0
Card Option		13.56 MHz ISO14443 A/B(MIFARE)
Physical	Size (mm)	84 X 164 X 22.8
	Weight (g)	260
Interface	Communication Interface	RJ45, TCP/IP, 10/100T
		RS-485
		RS-232
		USB (for Printer)
		USB (for F/W Upgrade)
	Wiegand	Output
	TTL	-
	Built-in Relay	1
Expandable Function	Additional Relay Control	1 (12V External Relay)
	Wireless LAN	-
	SAM	1

XID-500 Product Specifications

	Item	XID5.0
Hardware	CPU	536 MHz (SAMA5D31, Cortex A5)
	Memory	8 MB S-flash + 4 GB eMMC + 256 MB RAM
	LCD Display	4.3" color touch screed
	Humidity	90 %
	Tamper	Switch
	Operating Voltage	12 VDC
	Audio Output Power	1.0 W
	WDT	HW(MICOM), SW
	RTC Battery	Yes
Environment Specification	Operating Temperature	-20 ~ 50 °C
	Humidity	90 %
	ESD	Contact : < 8 kV Air : < 15 kV
	Certification	KC, SRRC, CE
	Water Proof	IP65

XID-500 Product Specifications

Item		XID5.0
Power	Voltage (V)	12
	Current (mA)	400 (Max.)
Switch Input	VIH (V)	12
	VIL (V)	GND (Low)
	Pull-up resistance (Ω)	10 K
Wiegand Output	VOH (V)	5
	VOL (V)	GND (Low)
	Pull-up resistance (Ω)	4.7 K
Relay	Relay Type	Dry
	Switching capacity (A)	2 (Max.)
	Switching power (resistive)	60W (Max.)
	Switching voltage (VDC)	220

FCC Information

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.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.