HIKVISION

DS-K1T502 Series
Access Control Terminal

Quick Start Guide

UD29348B-B

Scan the QR code to get the user manual for detailed information.
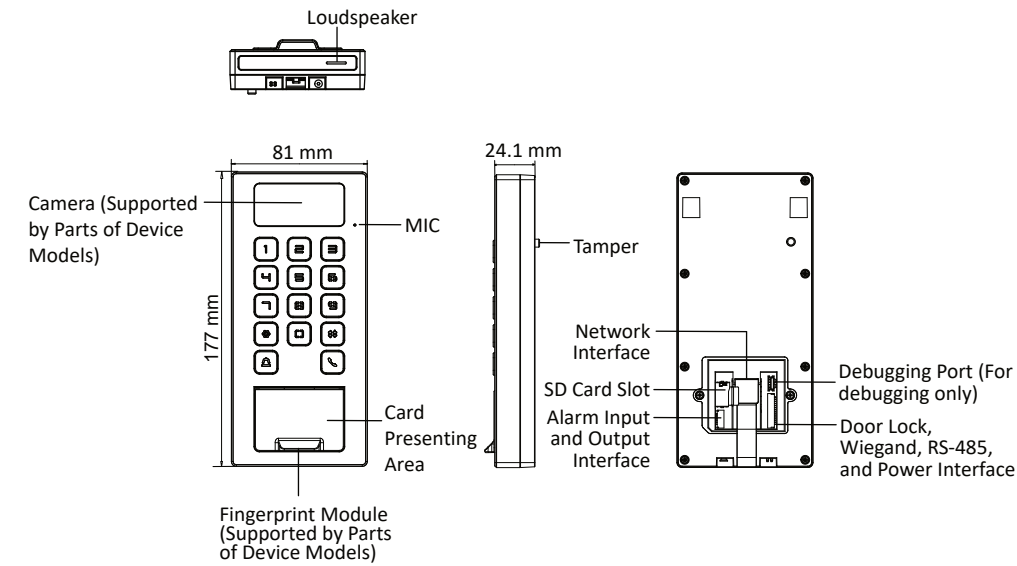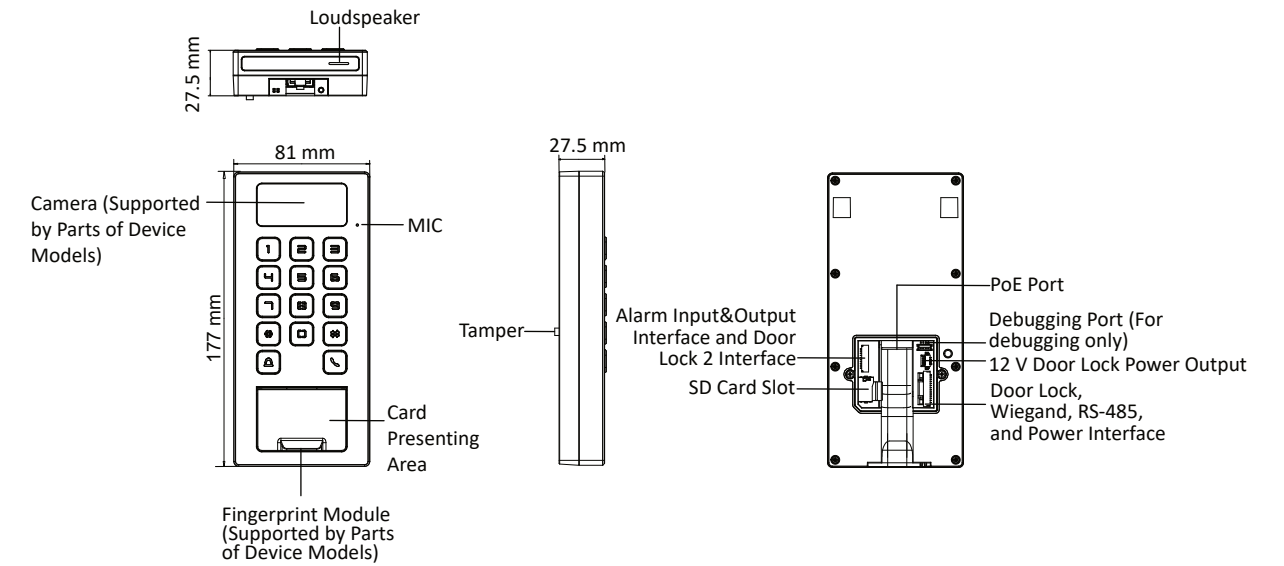
1 Appearance

ⓘ ● The figures are for reference only.
● The Fingerprint + Card Series device supports authentication via fingerprint and card. The Card Series device supports authentication via card.
● Only **POE series** devices support **POE port**, **Door Lock 2 Interface** and **12 V Door Lock Power Output**.
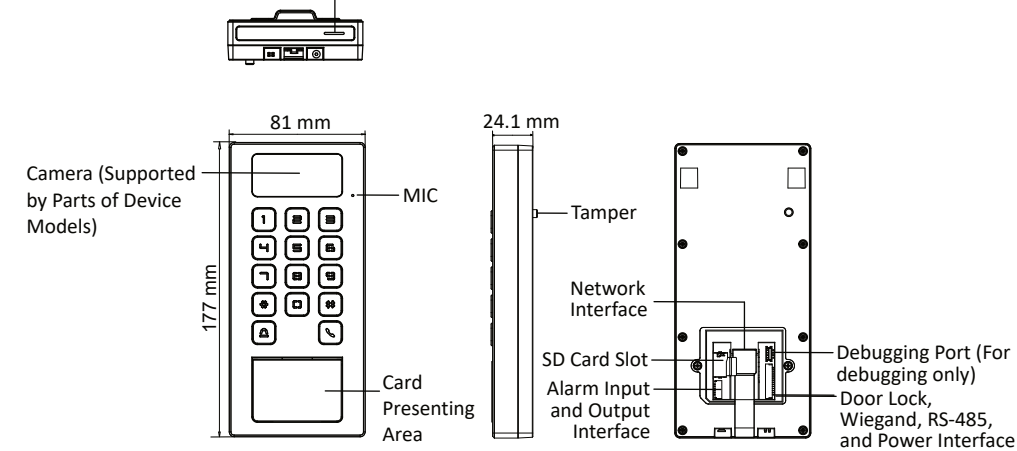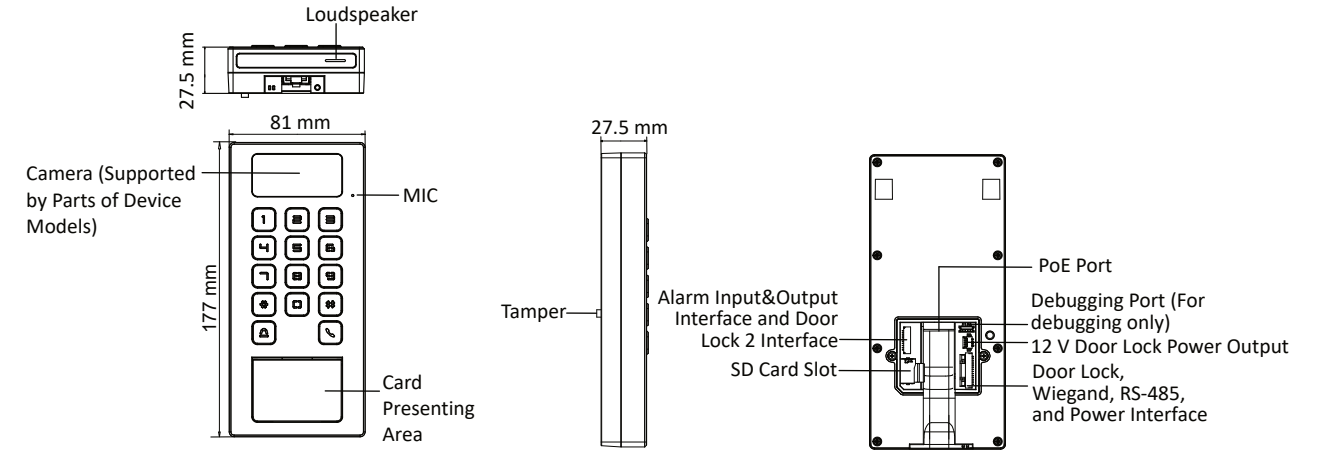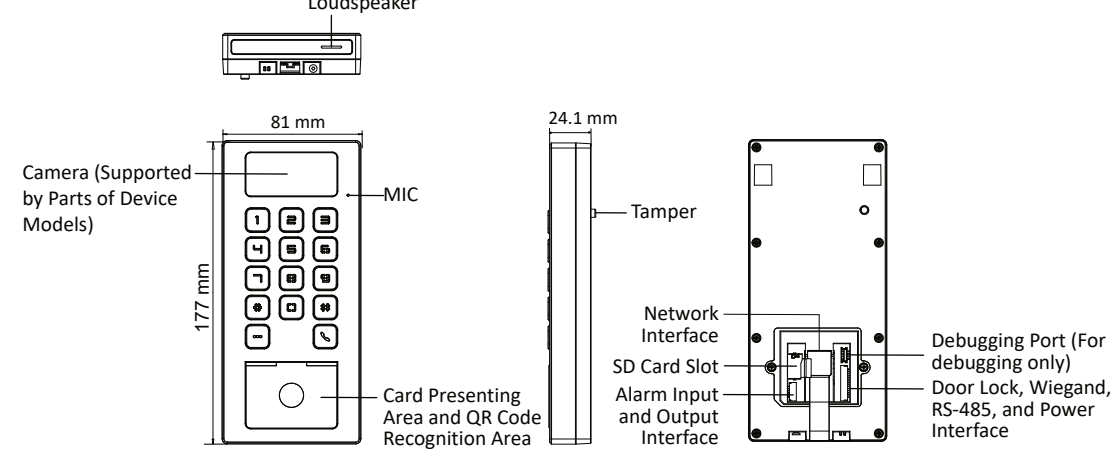
Fingerprint + Card Series

Loudspeaker
Camera (Supported by Parts of Device Models)
MIC
81 mm
177 mm
Card Presenting Area
Fingerprint Module (Supported by Parts of Device Models)
24.1 mm
Tamper
Network Interface
SD Card Slot
Alarm Input and Output Interface
Debugging Port (For debugging only)
Door Lock, Wiegand, RS-485, and Power Interface

Fingerprint + Card Series (With PoE)

Loudspeaker
27.5 mm
Camera (Supported by Parts of Device Models)
MIC
81 mm
177 mm
Card Presenting Area
Fingerprint Module (Supported by Parts of Device Models)
27.5 mm
Tamper
Alarm Input&Output Interface and Door Lock 2 Interface
SD Card Slot
PoE Port
Debugging Port (For debugging only)
12 V Door Lock Power Output
Door Lock, Wiegand, RS-485, and Power Interface

Card Series

Loudspeaker
Camera (Supported by Parts of Device Models)
MIC
81 mm
177 mm
Card Presenting Area
24.1 mm
Tamper
Network Interface
SD Card Slot
Alarm Input and Output Interface
Debugging Port (For debugging only)
Door Lock, Wiegand, RS-485, and Power Interface

Card Series (With PoE)

Loudspeaker
27.5 mm
Camera (Supported by Parts of Device Models)
MIC
81 mm
177 mm
Card Presenting Area
27.5 mm
Tamper
Alarm Input&Output Interface and Door Lock 2 Interface
SD Card Slot
PoE Port
Debugging Port (For debugging only)
12 V Door Lock Power Output
Door Lock, Wiegand, RS-485, and Power Interface

Card + QR Code Series

Loudspeaker
Camera (Supported by Parts of Device Models)
MIC
81 mm
177 mm
Card Presenting Area and QR Code Recognition Area
24.1 mm
Tamper
Network Interface
SD Card Slot
Alarm Input and Output Interface
Debugging Port (For debugging only)
Door Lock, Wiegand, RS-485, and Power Interface

Card + QR Code Series (With PoE)

Loudspeaker
27.5 mm
Camera (Supported by Parts of Device Models)
MIC
81 mm
177 mm
Card Presenting Area and QR Code Recognition Area
27.5 mm
Tamper
Alarm Input&Output Interface and Door Lock 2 Interface
SD Card Slot
PoE Port
Debugging Port (For debugging only)
12 V Door Lock Power Output
Door Lock, Wiegand, RS-485, and Power Interface

2 Keypad

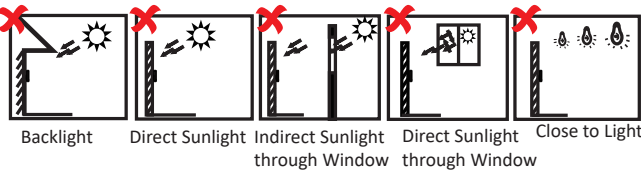| Keypad Name	Description
Number	0 to 9 digits. You can enter the number when authenticating or calling room. Hold 5 to enable device hotspot. You can use mobile phone to connect the hotspot and login the mobile web to configure.
*	Clear all entered contents.
#	Confirm the entered contents.
☷ Doorbell	Doorbell
☎	Call button. You can enter a room number and press the key to call. Or call the administrator or specified romm by pressing the key directly (configuration is needed).

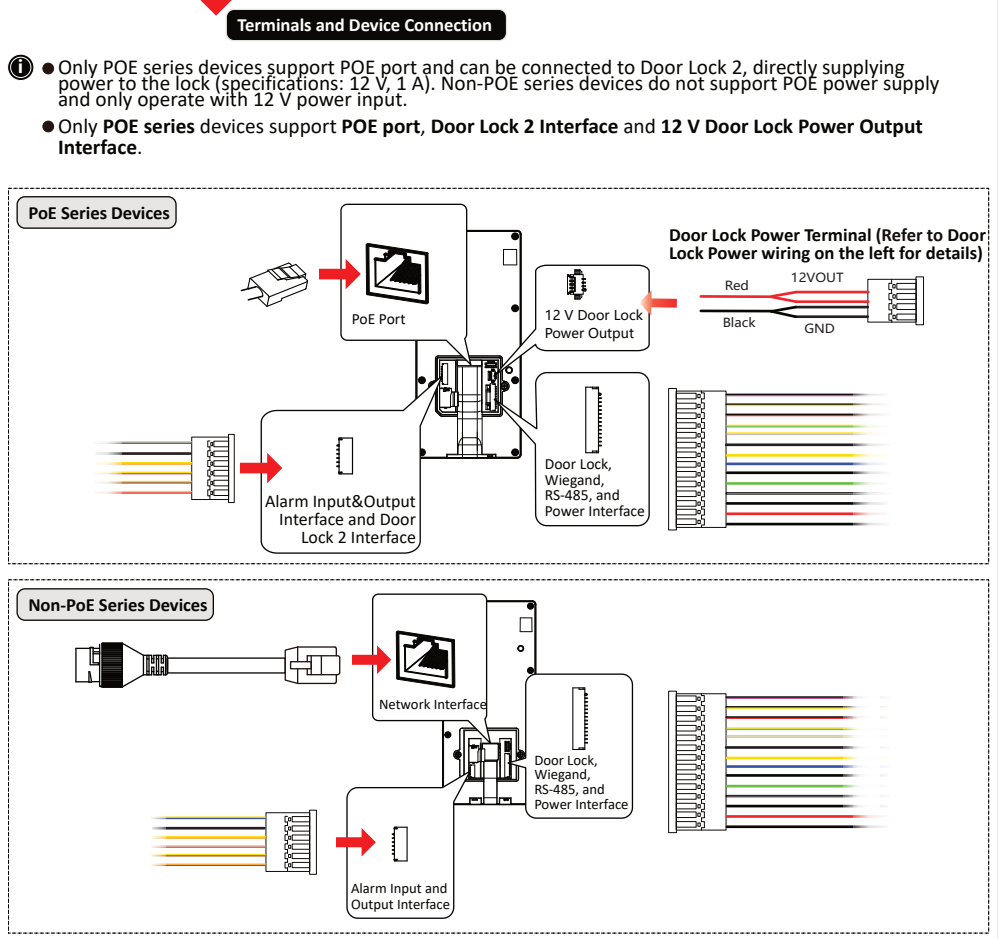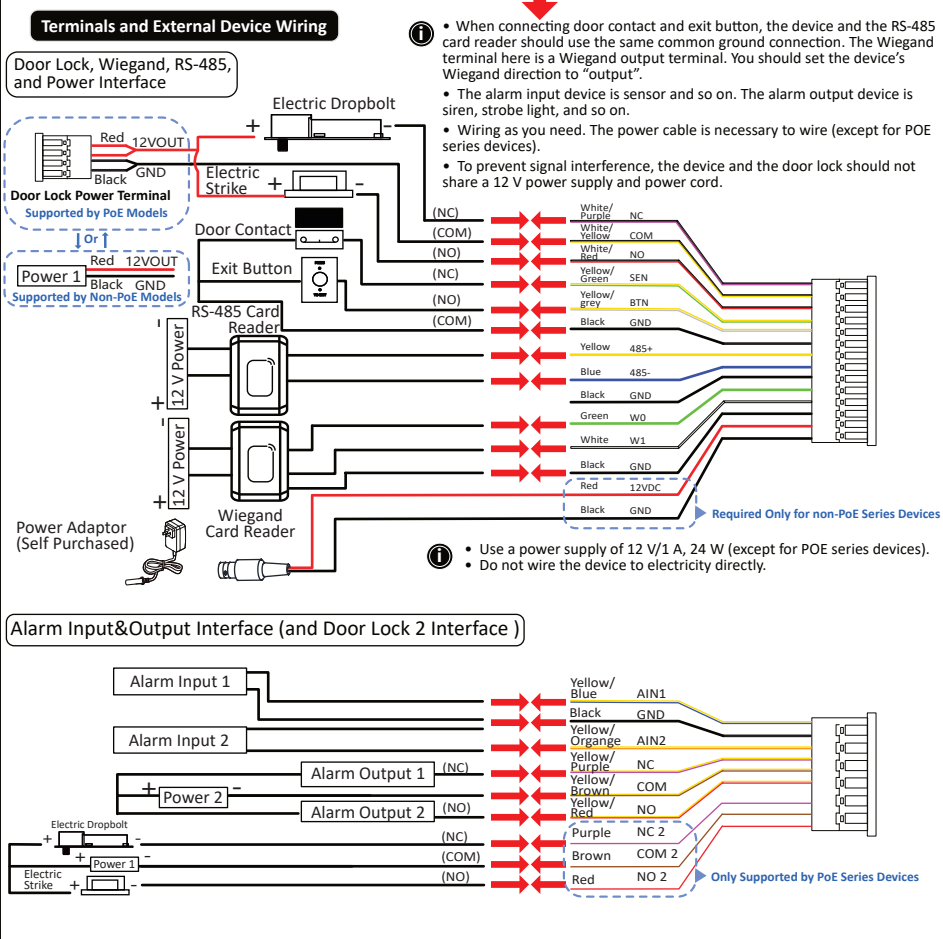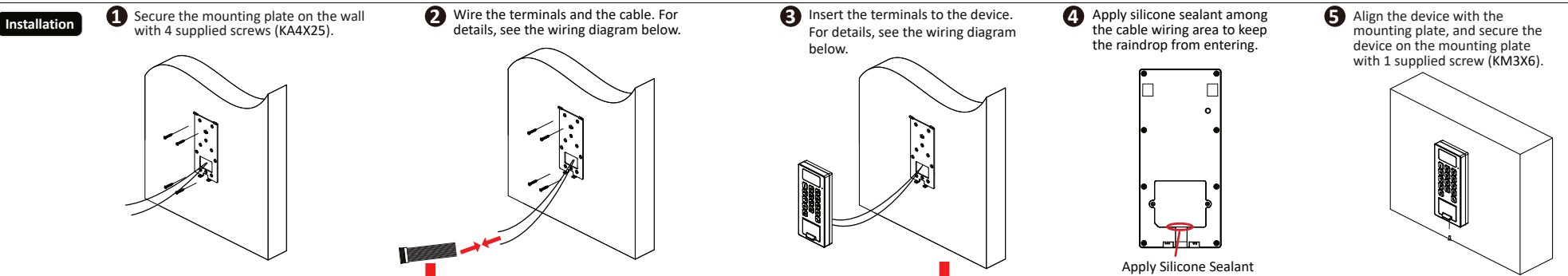ⓘ You need enter "2#" and authenticate the credential to open door 2.

3 Environment Instruction

Installation Environment:
● Support outdoor use.
● Avoid backlight, direct sunlight, and indirect sunlight.
● For Better recognition, there should be light source in or near the installation environment.
● The minimum bearing weight of the wall or other places should be 3 times heavier than the device weight.

Backlight | Direct Sunlight | Indirect Sunlight through Window | Direct Sunlight through Window | Close to Light

4 Installation and Wiring

Installation

❶ Secure the mounting plate on the wall with 4 supplied screws (KA4X25).

❷ Wire the terminals and the cable. For details, see the wiring diagram below.

❸ Insert the terminals to the device. For details, see the wiring diagram below.

❹ Apply silicone sealant among the cable wiring area to keep the raindrop from entering.

❺ Align the device with the mounting plate, and secure the device on the mounting plate with 1 supplied screw (KM3X6).

Apply Silicone Sealant

Terminals and External Device Wiring

Door Lock, Wiegand, RS-485, and Power Interface

ⓘ
● When connecting door contact and exit button, the device and the RS-485 card reader should use the same common ground connection. The Wiegand terminal here is a Wiegand output terminal. You should set the device's Wiegand direction to "output".
● The alarm input device is sensor and so on. The alarm output device is siren, strobe light, and so on.
● Wiring as you need. The power cable is necessary to wire (except for POE series devices).
● To prevent signal interference, the device and the door lock should not share a 12 V power supply and power cord.

Electric Dropbolt
Red 12VOUT
Black GND
Door Lock Power Terminal Supported by PoE Models

Electric Strike

Power 1
Red 12VOUT
Black GND
Supported by Non-PoE Models

Door Contact
Exit Button
RS-485 Card Reader
12 V Power
Wiegand Card Reader
12 V Power
Power Adaptor (Self Purchased)

	White/Purple	NC
	White/Yellow	COM
(NC)	White/Red	NO
(COM)	White/Green	SEN
(NO)	Yellow/grey	BTN
(NC)	Black	GND
(NO)	Yellow	485+
(COM)	Blue	485-
	Black	GND
	Green	W0
	White	W1
	Black	GND
	Red	12VDC
	Black	GND

Required Only for non-PoE Series Devices

ⓘ
● Use a power supply of 12 V/1 A, 24 W (except for POE series devices).
● Do not wire the device to electricity directly.

Alarm Input&Output Interface (and Door Lock 2 Interface)

Alarm Input 1
Alarm Input 2
Power 2
Alarm Output 1
Alarm Output 2
Electric Dropbolt
Electric Strike
Power 1

	Yellow/Blue	AIN1
	Black	GND
	Yellow/Orange	AIN2
(NC)	Yellow/Purple	NC
(COM)	Yellow/Brown	COM
(NO)	Yellow/Red	NO
(NC)	Purple	NC 2
(COM)	Brown	COM 2
(NO)	Red	NO 2

Only Supported by PoE Series Devices

Terminals and Device Connection

ⓘ
● Only POE series devices support POE port and can be connected to Door Lock 2, directly supplying power to the lock (specifications: 12 V, 1 A). Non-POE series devices do not support POE power supply and only operate with 12 V power input.
● Only **POE series** devices support **POE port**, **Door Lock 2 Interface** and **12 V Door Lock Power Output Interface**.

PoE Series Devices

PoE Port
12 V Door Lock Power Output

Door Lock Power Terminal (Refer to Door Lock Power wiring on the left for details)
Red 12VOUT
Black GND

Alarm Input&Output Interface and Door Lock 2 Interface
Door Lock, Wiegand, RS-485, and Power Interface

Non-PoE Series Devices

Network Interface
Door Lock, Wiegand, RS-485, and Power Interface
Alarm Input and Output Interface

5 Wiring (With Secure Door Control Unit)

Access Control Terminal
Secure Door Control Unit

RS-485
485+ C1 Yellow
485- C2 Blue
GND C3 Black

Secure Door Control Unit Wiring Terminal

Power Input
+12 V A1 Red +12 V
GND A2 Black GND

Sensor Input
SENSOR B1 Green/Brown
GND B2 Black

Door Contact

Exit Button
BUTTON B 3 Green/Black
GND B4 Black

Exit Button

Lock Output
NC C1 White/Purple (NC)
COM C2 White/Black
NO C3 White/Red

Electric Dropbolt
Power
(NO)
Electric Strike

ⓘ
● The secure door control unit should connect to an external power supply separately. The suggested external power supply is 12 V, 0.5 A.
● For scenarios with high safety requirement, use the secure door control unit wiring first. You can ask the technical support to purchase for the secure door control unit separately.
● The picture here are parts of the wiring. For details, see the secure door control unit's user manual.

6 Mounting Plate Dimension

Unit: mm

73.4
5.9
161.7
83.3
43.5
66.7
130.5
18
36
40
60

7 Configuration

● **Activate via Web**
You can activate the device via the web browser.
Enter the device default IP address (192.0.0.64) in the address bar of the web browser, and press **Enter**.

ⓘ
● Make sure the device IP address and the computer's should be in the same IP segment.
● Characters containing admin and nimda are not supported to be set as activation password.

⚠ STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

● **Manage People on Platform**
You can batch import people on platform (client software, etc.) and set the device or the person's authentication mode.

● **Open Door**
You can use the credentials (fingerprint, card, PIN, QR code) to recognize. After recognition completed, the door will be open.

ⓘ You need enter "2#" and authenticate the credential to open door 2.

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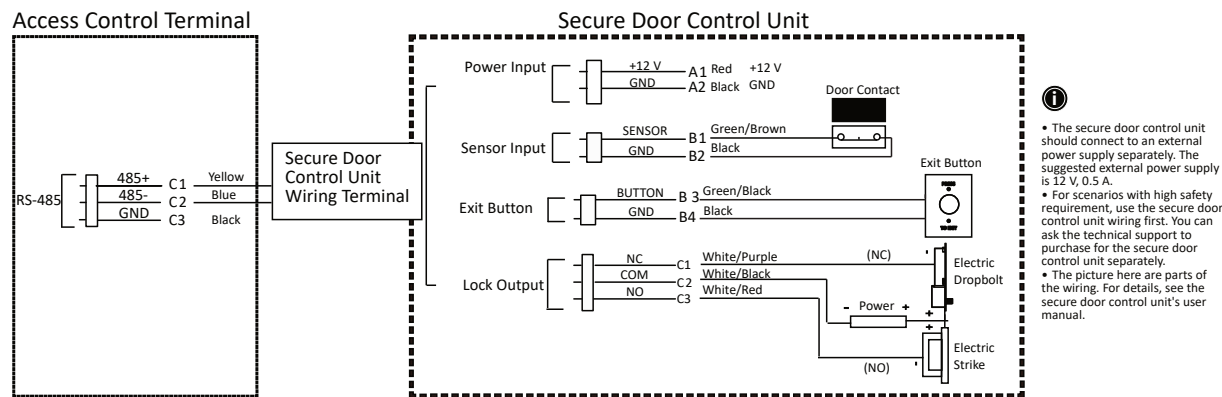
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● If the Type C power output port of the device does not comply with Limited Power Source, the connected device powered by this port shall be equipped with a fire enclosure.