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HIKVISION DS-KD8003-IME1B Video Intercom Module Door Station

Diagram References

Appearance

1. Microphone
2. Low Illumination IR Supplement Light
3. Built-in Camera
4. Loudspeaker
5. Call Button
6. Nametag
7. TAMPER
8. Network Interface
9. Module-Connecting Interface
10. Set Screw

Note: The module-connecting interface is used to connect other function module, such as nametag module, keypad module, card reader module, etc. All these modules are known as sub module. •

Terminal

1. NC1: Door Lock Relay Output (NC)

2. NO1: Door Lock Relay Output (NO)
3. COM: Common Intertace
4. NC2: Door Lock Relay Output (NC)
5. NO2: Door Lock Relay Output (NO)
6. GND: Grounding 12
7. VDC: Power Input
8. GND: Grounding

1. AIN2: For the access of Door Contact 2
2. AIN1: For the access of Door Contact 1
3. AIN3: For the access of Exit Button 1
4. AIN4: For the access of Exit Button 2
5. 485-: Module-connecting Interface
6. B6 485+: Module-connecting Interface
7. 12V OUT: Module-connecting
8. Interface GND: Module-connecting Interface

PoE Network Interface (Supports IEEE 802.af/at-Compliant Devices)

Note: When you connect to 12VDC power input and PoE switch at the same time, the priority of 12 VDC is higher than PoE Switch. When the device is powered off, you should to disconnect the network cable from PoE Switch before disconnecting the power cable.

Installation

Note: Video intercom module door station support one-module installation, two-module installation, three module installation and more-than-three-module installation. Here takes three-module installation as an example.

Before You Start

- Tools that you need to prepare for installation: Drill(6), cross screw driver (PH1*150

mm), and gradienter.

- Make sure all the related equipment is power-off during the installation.
- Make sure you have configured the sub module address before installation. Valid sub module address range is 1 to 8. The No. should be unique for sub modules that connected to the same main unit. The sub module address and corresponding switch status is shown as the figure.

Sub Module Address	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
Module 1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Module 2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Module 3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Module 4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
Module 5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
Module 6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
Module 7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
Module 8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF

*** Three-Module Flush Mounting**

1. Cave the installation hole, and pull the cable out. Note: The suggested dimension of the installation hole is 321.8(W) × 108(H) x 45.5(D) mm. The suggested length of the cables left outside is 270 mm.
2. Select a cable entry and remove the plastic sheet. Route the cables through the gang box hole. Insert the gang box into the installation hole. Mark the gang box screw holes' position with a marker, and take out the gang box.
3. Drill 4 holes according to the marks on the wall, and insert the expansion sleeves into the screw holes. Fix the gang box with 4 expansion bolts. Fill the gap between the

gang and wall with concrete or Silicone sealant. Remove the mounting ears with tool after concrete is dry.

4. Connect cables and insert the modules.
    - Connect Cable 1 and one end of Cable 2 to the corresponding interfaces of the main unit, then insert the main unit into the upper grid.
    - Connect the other end of Cable 2 to the input interface of Sub Module 1. Connect one end of Sub Module 1 and insert it into the middle grid.
    - Connect the other end of Cable 3 to the input interface of Sub Module 2. Insert it into the bottom grid.
5. Fix the cover and the main unit with 2 socket head cap screws by using a hexagon wrench.

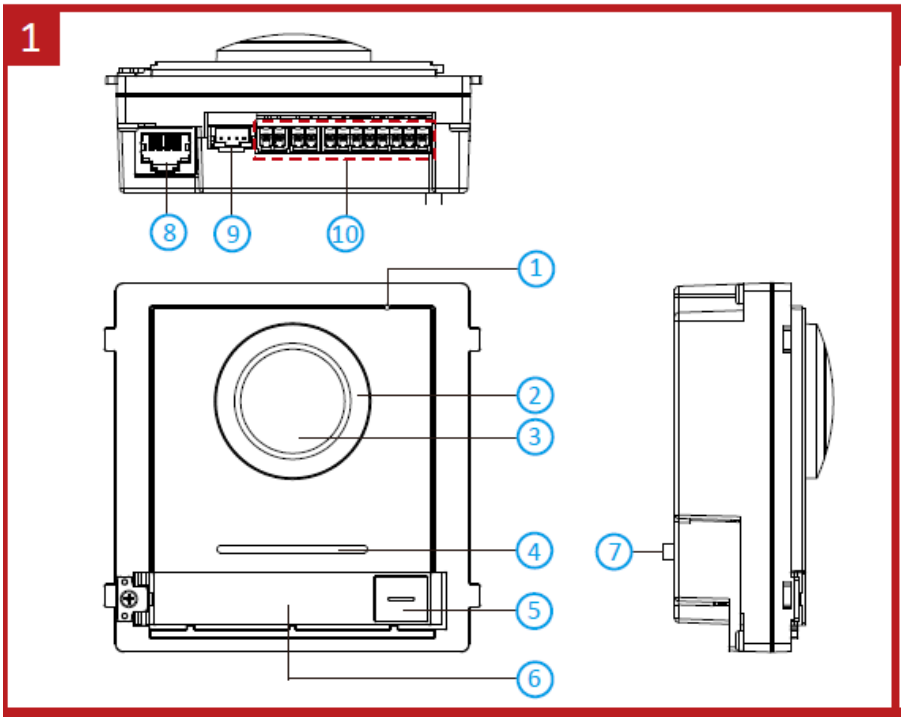
Surface Mounting with Protective Shield

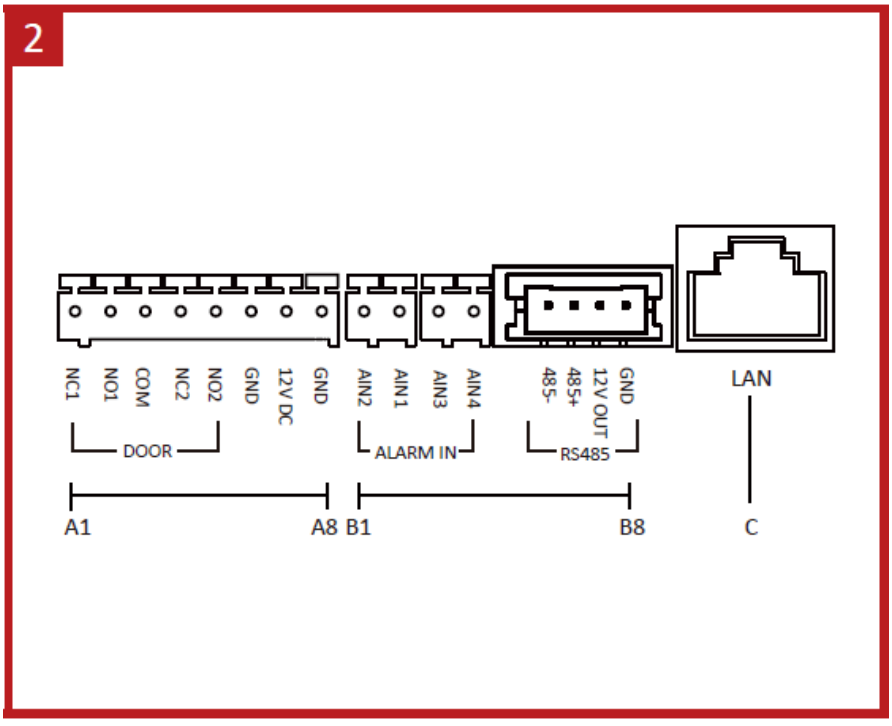
1. Paste the installation sticker 1 onto the wall. Make sure the sticker is placed horizontally via measuring with the gradienter. Drill 4 holes according to the screw holes on the sticker. Note: The suggested size of hole is 6(diameter) × 25(depth) mm. The suggested length of the cables left outside is 270 mm.
2. Remove the sticker and insert the expansion sleeves into the screw holes. Fix the mounting frame onto the wall with 4 expansion bolts.
3. Thread the module-connecting line across the thread holes of the frame. Pass the main unit connecting line across the thread hole to the top grid and connect the cables.
    - Connect the lines and module-connecting line 1 to the corresponding interfaces of the main unit, then place the main unit into the upper grid.
    - Connect the other end of the module-connecting line 1 to the input interface of the sub modules via module-connecting line 2.
    - Organize the cables with cable tie in the package.
4. Insert the modules into the frame after wiring. The main unit must be placed in the top grid.
5. Use the hexagon wrench in the package to fix the cover onto the frame.

Installation Positions

Recommended Installation Height (The distance between the camera and the ground):

1.4 m to 1.6 m The FOV of the camera is : Horizontal: 146°, °, Vertical: 82°. The highest visual height and lowest visual height of the camera is shown as picture.





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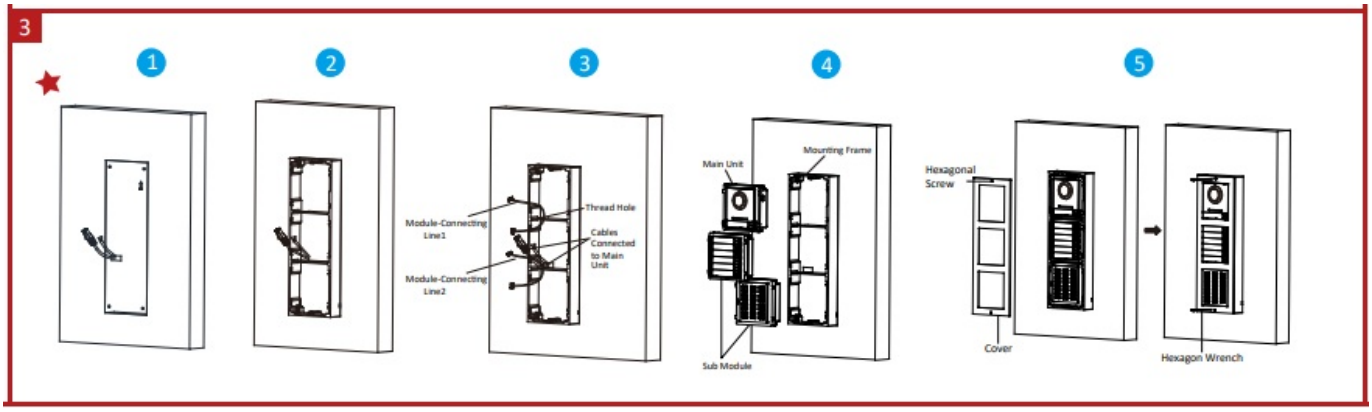
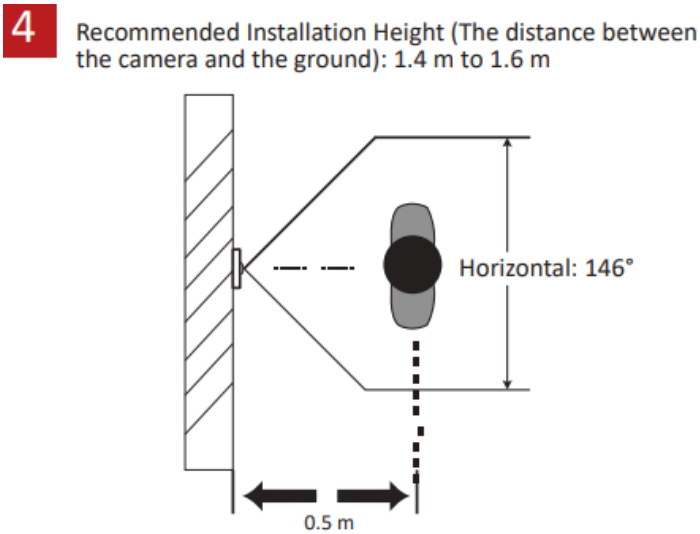
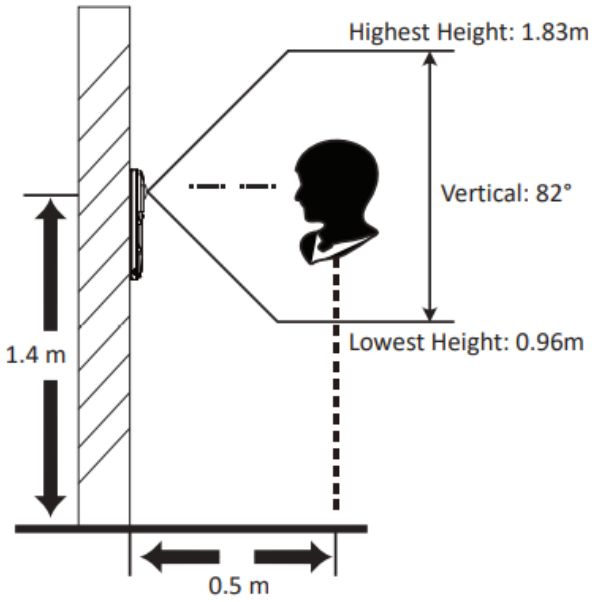
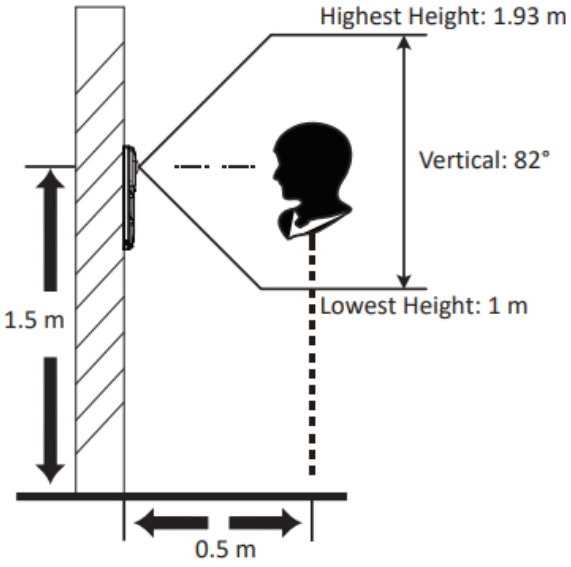
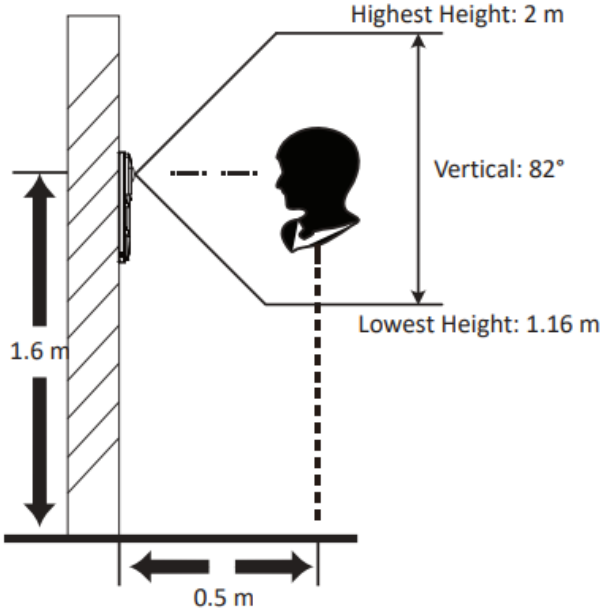


Recommended Installation Height (The distance between he camera and the ground): 1.4 m to 1.6 m









Terminal and Wiring

Terminal Description

Main Unit Terminals

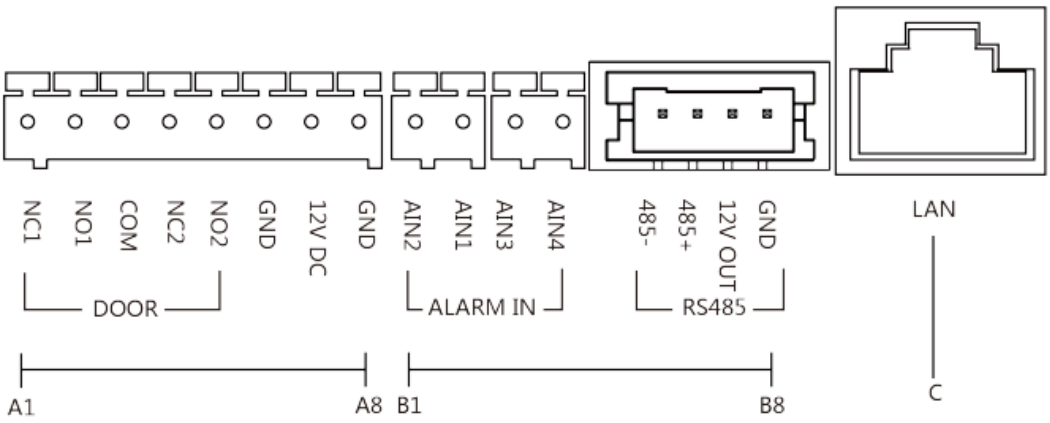


Figure 2-1 Main Unit Terminals

Table 2-1 Descriptions of Terminals and Interfaces

No.	Interface	Description
A1	NC1	Door Lock Relay Output (NC)
A2	NO1	Door Lock Relay Output (NO)
A3	COM	Common Interface
A4	NC2	Door Lock Relay Output (NC)
A5	NO2	Door Lock Relay Output (NO)
A6	GND	Grounding
A7	12 VDC	Power Input
A8	GND	Grounding
B1	AIN2	For the access of Door Magnetic 2
B2	AIN1	For the access of Door Magnetic 1

No.	Interface	Description
B3	AIN3	For the access of Exit Button 1

B4	AIN4	For the access of Exit Button 2
B5	485-	Module-connecting Interface
B6	485+	
B7	12 V OUT	
B8	GND	
C	LAN	PoE Network Interface(Supports IEEE 802.3af/at-Compliant Devices)

Two-Wire Main Unit Terminal

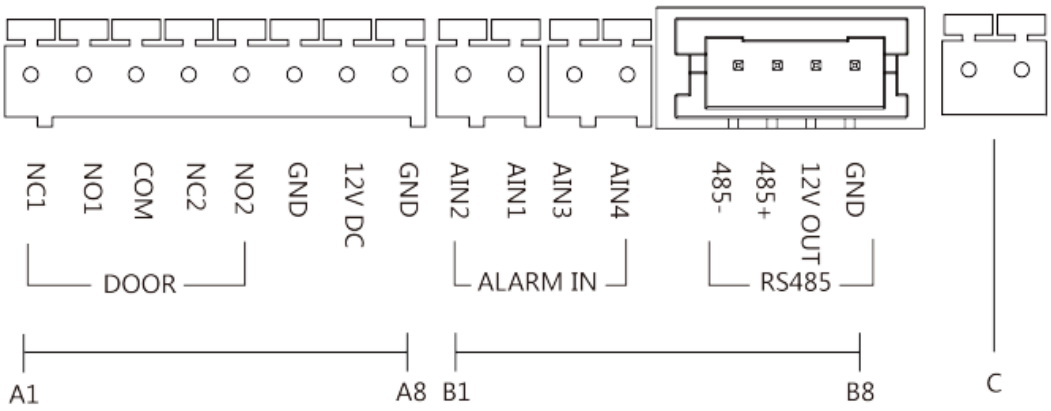


Figure 2-2 Two-Wire Main Unit Terminal

Table 2-2 Descriptions of Terminals and Interfaces

No.	Interface	Description
A1	NC1	Door Lock Relay Output (NC)
A2	NO1	Door Lock Relay Output (NO)
A3	COM	Common Interface
A4	NC2	Door Lock Relay Output (NC)

No.	Interface	Description
A5	NO2	Door Lock Relay Output (NO)
A6	GND	Grounding
A7	12 VDC	Reserved
A8	GND	Grounding
B1	AIN2	For the access of Door Magnetic 2
B2	AIN1	For the access of Door Magnetic 1
B3	AIN3	For the access of Exit Button 1
B4	AIN4	For the access of Exit Button 2
B5	485-	Module-connecting Interface
B6	485+	
B7	12 V OUT	
B8	GND	
C	Two-Wire Interface	Two-Wire Interface

Sub Module Terminal (Except Touch-Display Module)

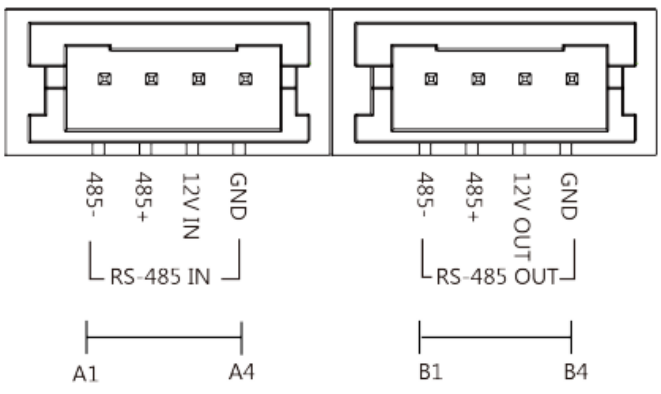


Figure 2-3 Sub Module Terminal (Except Touch-Display Module)

Table 2-3 Description

No.	Interface	Description
A1	485-	Module-Connecting Interface (Input)
A2	485+	
A3	12V IN	
A4	GND	
B1	485-	Module-Connecting Interface (Output)
B2	485+	
B3	12V OUT	
B4	GND	

Touch-Display Module

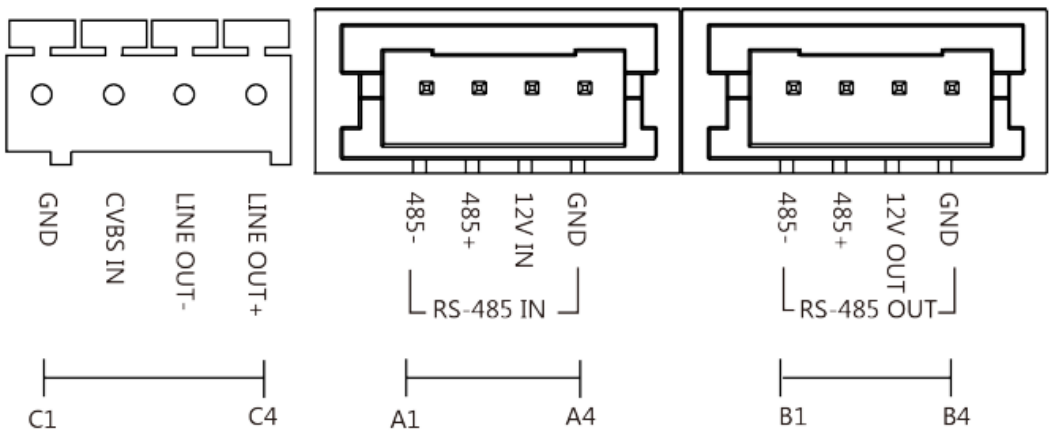


Figure 2-4 Touch-Display Module

Table 2-4 Description

No.	Interface	Description
A1	485-	

A2	485+	Module-Connecting Interface (Input)
A3	12V IN	

No.	Interface	Description
A4	GND	
B1	485-	Module-Connecting Interface (Output)
B2	485+	
B3	12V OUT	
B4	GND	
C1	GND	Grounding Interface
C2	CVSB IN	Composite Video Broadcast Signal Input (Reserved)
C3	LINEOUT-	Audio Output (Reserved)
C4	LINEOUT+	

Module Door Station Wiring

Door Lock Wiring

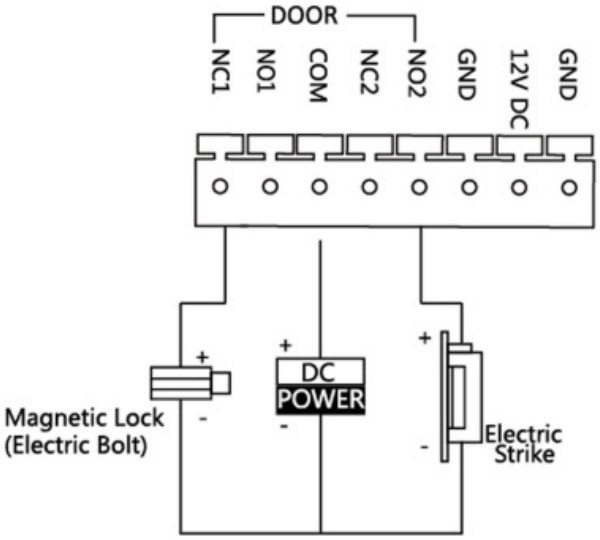


Figure 2-5 Door Lock Wiring

Note

Terminal NC1/COM is set as default for accessing magnetic lock/electric bolt; terminal NO2/COM is set as default for accessing electric strike.

Door Contact Wiring

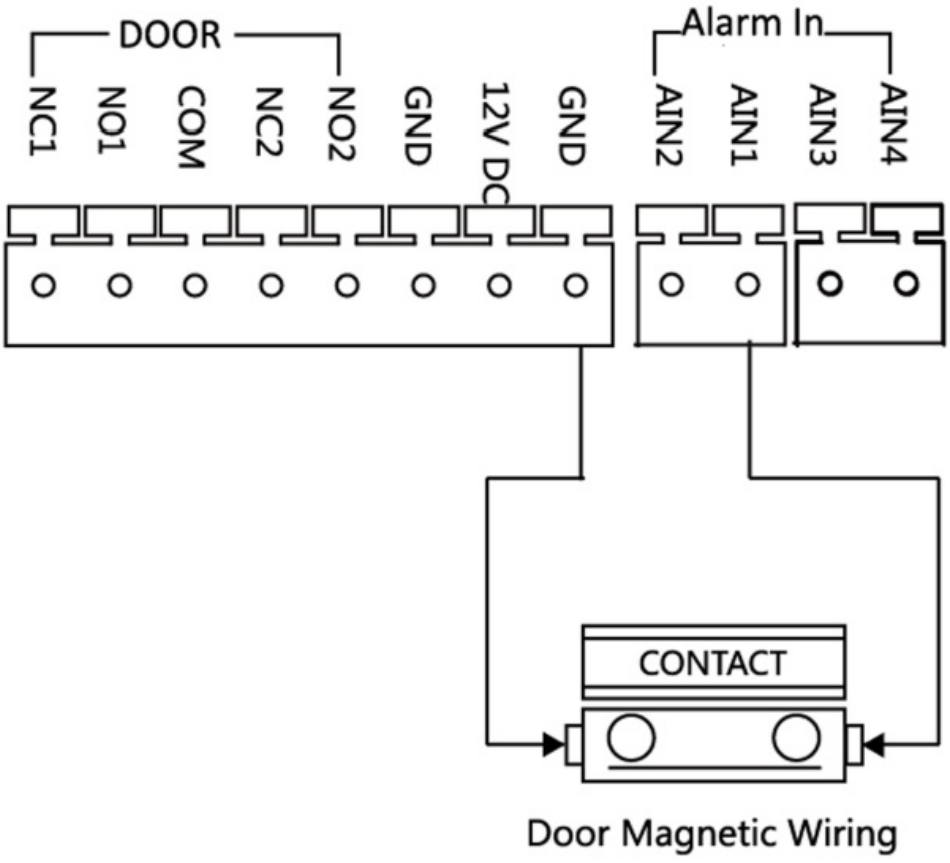


Figure 2-6 Door Contact Wiring

Note

AIN1 and AIN2 are defaulted to connect door contact. Door contact connected to AIN1 detects status of the lock that connected to NC1/NO1; Door contact connected to AIN2 detects the status of the lock connected to NC2/NO2.

Exit Button Wiring

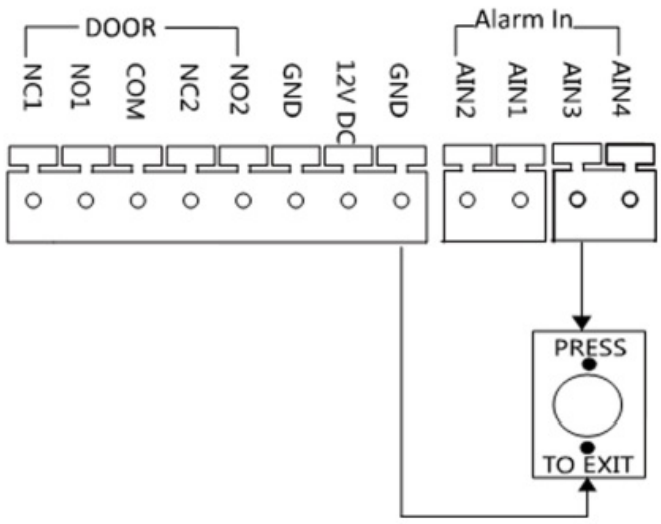
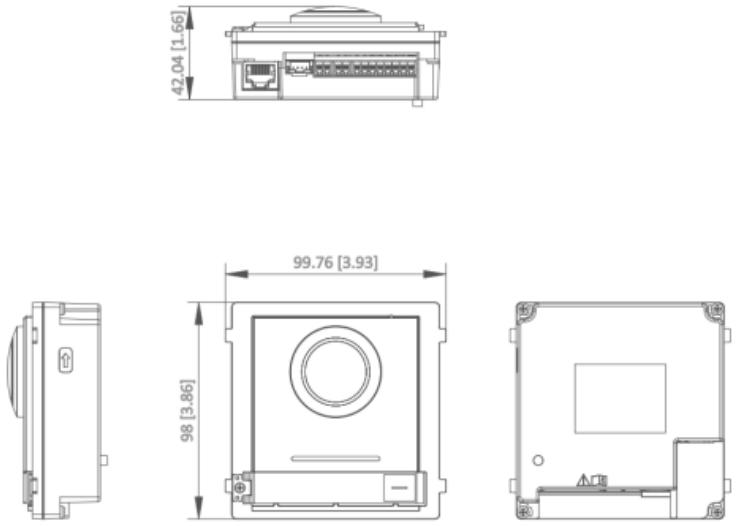


Figure 2-7 Exit Button Wiring

Note

AIN3 and AIN4 are set as default for connecting exit button. Exit button connected to AIN3 opens the lock connected to NC1/NO1; Exit button connected to AIN4 controls the lock that connected to NC2/NO2.

DIMENSION

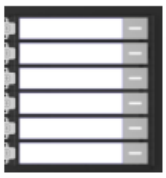


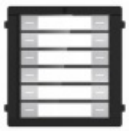
Unit:mm [inch]

SCALE	1:1

Accessory

Optional

DS-KAW50-1	DS-KD-KK	DS-KD-IN	DS-KD-BK	DS-KD-KP
				
DS-KD-M	DS-KD-E	DS-KD-DIS	DS-KD-ACW1	DS-KD-ACW2
				
DS-KD-ACW3	DS-KD-INFO	DS-KABD8003-RS1	DS-KABD8003-RS2	DS-KABD8003-RS3
				
DS-KAW50-1N	DS-KD-ACF1/Plastic	DS-KD-ACF2/Plastic	DS-KD-ACF3/Plastic	DS-KD-TDM
				

DS-KD-TDE	DS-KDE-ACR3	DS-KD-KP#EU	DS-KD-ACW1#EU	DS-KD-ACW2#EU
				
DS-KD-ACW3#EU	**DS-KD-K12**	**DS-KD-K12/S**	**DS-KD-MFB**	**DS-KD-MFB/S**
				

FAQs

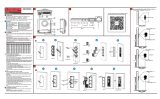
Can I connect multiple sub-modules to the main unit?

Yes, the video intercom module door station supports one-module installation, two-module installation, three-module installation, and more-than-three-module installation.

What is the priority between 12VDC power input and PoE switch?

When both are connected simultaneously, the priority of 12VDC is higher than the PoE switch. Disconnect the network cable from the PoE switch before disconnecting the power cable when powering off the device.

Documents / Resources

	HIKVISION DS-KD8003-IME1B Video Intercom Module Door Station [pdf] User Manual DS-KD8003-IME1B Video Intercom Module Door Station, DS-KD8003-IME1B, Video Intercom Module Door Station, Intercom Module Door Station, Module Door Station, Door Station

References

- User Manual

Hikvision

Door Station, DS-KD8003-IME1B, DS-KD8003-IME1B Video Intercom Module Door Station, Hikvision, Intercom Module Door Station, Module Door Station, Video Intercom Module Door Station

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