HIKVISION

B83 IO Controller

Quick Start Guide



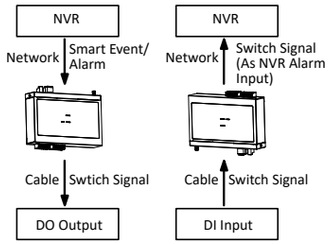
*Refer to the actual product for its specifications.

User Manual

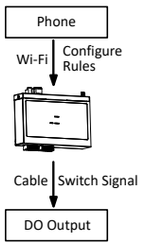
Hikvision Official Site:
www.hikvision.com

1 Typical Usage

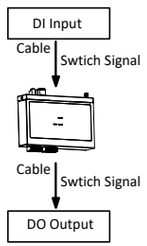
Used as an Alarm Input/Output Expansion for NVR



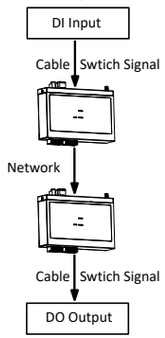
Configure Rules to Control Switch Output



Switched Input Linkage Control for Switched Output (Single Device)



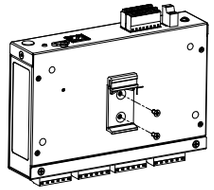
Switched Input Linkage Control for Output (Dual Machine, supported by some devices)



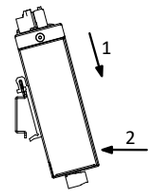
2 Installation

This device has high-voltage terminals and must only be used inside equipment like distribution boxes.

DIN Rail Mount

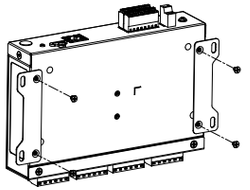


Secure the track clip with screws to the bottom of the device (with the end of the clip that has the butterfly ring facing upwards). (This step is already pre-installed by default at the factory.)

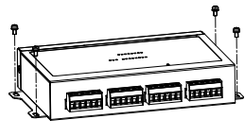


Insert the top edge of the DIN track into the butterfly ring of the clip, then push the bottom end of the device down to allow the bottom edge of the DIN track to engage with the clip.

Earclip Fixed

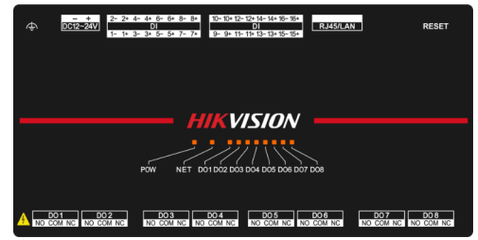


Attach the earphone screws to the bottom of the device.



Fix the device to the desired horizontal or vertical surface using the earphone screws.。

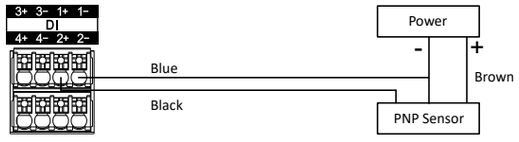
3 Interfaces & Indicator



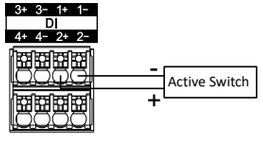
Type	Identification		Description
Interface	⏚		GND
	DC12~24V	+	Power positive pole
		-	Power negative pole
	DI	n+	The nth switch quantity input, +, connected to the + of the active switch (wet contact) or the positive pole of the passive switch (dry contact)
		n-	The nth switch quantity input, -, connected to the - of the active switch (wet contact) or the negative pole of the passive switch (dry contact)
	RJ45/LAN		100 Mbps network port
	DOn	NO	The nth switch quantity output, normally open
		COM	The nth switch quantity output, common terminal
		NC	The nth switch quantity output, normally closed
Indicator	POW		Power indicator light, green is constantly on when powered on normally
	NET		Network indicator light, green blinks when data communication is in progress, green is constantly on when network is connected but no data communication
	DO n		Switch quantity output indicator
Button	RESET		Reset button, long press for 10 seconds to restore factory settings

4 DI (Switch Input) Wiring

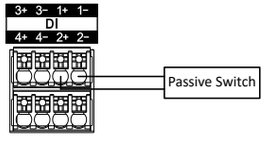
Connect to PNP Sensor



Connect to Wet Contact



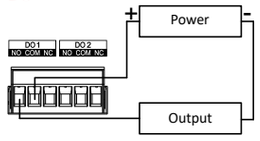
Connect to Dry Contact



- This example explains the connection method using "1+" and "1-" terminals. The connection methods for "2+" and "2-" to "n+" and "n-" are the same.
- When connecting sensors, refer to the color of the sensor wires.
- When connecting a wet contact, the current and voltage requirements should be met:
  - ▷Wet contact low-level voltage range: 0 V ~ 3 V
  - ▷Wet contact high-level voltage range: 8 V ~ 24 V

5 DO (Switch Output) Wiring

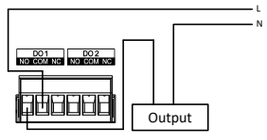
DC



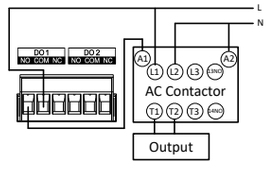
In the following situations, please add an AC contactor/intermediate relay between this product and the load:

- Resistive load current＞5A
- Non-resistive load current＞3A
- Load rated voltage＞DC 24V
- Load rated voltage＞AC 220V

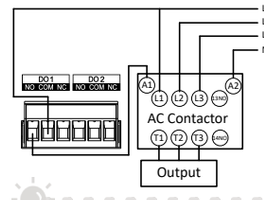
AC 220V (Without AC Contactor)



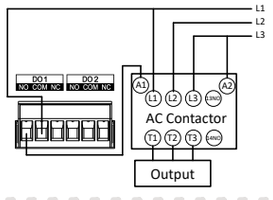
AC 220V (With AC Contacotr)



AC 380V (With Neutral Wire)



AC 380V (Without Neutral Wire)



- This example uses the "DO1" terminal as an illustration; the connection methods for "DO2", ..., "DOn" are the same.
- The internal relay of this product is a power relay, and it is recommended to use it in scenarios where the load current is greater than 100mA and the rated voltage is greater than 6V.

6 Login

Please use a device with a resolution of at least 1792*828 for the best experience.

Step 1 Connect the device's LAN port to the network, and the DC12~24V port to the power supply, wait for the Wi-Fi indicator light to remain on.

Step 2 Open the browser (due to interface compatibility, it is recommended to use Chrome), and then access the device.

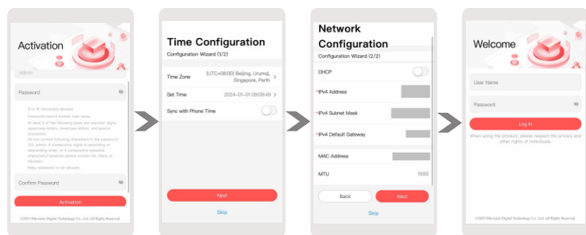
Step 3 (If it's the first time accessing) activate the device.

Please set a password meeting security requirements and store it securely.

Step 4 (If it's the first time accessing) follow the configuration wizard to set up time and network.

Step 5 Enter the username and password used during activation to log in to the device.

- Up to 2 phones can log in to the device simultaneously.
- Scan the cover QR code for more configuration instructions.



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