

1. 安全注意事项 (Safety precautions)

本说明书涉及产品为工业产品，并且均为开放型外壳设计。要求用户使用产品时，务必将产品安装于具有防尘、防潮以及免于电击 / 冲击等意外的控制柜内，并且需要设置保护措施以防止非维护人员不当操作或意外导致设备故障或损坏，造成不可避免的人员危险和财产损失。

The products in this manual are industrial products and are all open-type housing designs. It is essential to install these products within a control cabinet that is safeguarded against dust, moisture, and accidents such as electric shocks or physical impacts. Additionally, protective measures must be taken to prevent malfunctions or damage caused by improper operation or accidents involving non-maintenance personnel. Failure to do so may lead to serious risks to personnel safety and potential loss of property.

更详细的信息请参考 NXE 系列硬件手册。
Please refer to the NXE series hardware manual for more detailed information.

2. 命名规则 (Model identification)

HC NXE - ID16 - D2 - XXXX

1 2 3 4 5 6 7

1	产品名称 (Product name)	3	系列型号 (Series type)	5	电源类型 (Power supply type)
HC	禾川 (Hechuan Technology)	ID	数字量输入 (Digital input)	D	直流电源 (DC power supply)
		OD	晶体管型数字量输出 (Transistor digital output)	A	交流电源 (AC power supply)
2	产品系列 (Product series)	OC	继电器型数字量输出 (Relay digital output)	6	迭代版本 (Iteration version)
NXE	远程模块系列 (Remote module series)	MD	晶体管型数字量混合 (Transistor digital mixed)	2	第2代 (The 2th generation)
		MC	继电器型数字量混合 (Relay digital mixed)	7	软件/固件定制代码 (Customized software/firmware code)
		4	输入输出数量 (Number of inputs and outputs)*	X	0~9/A-Z/空 (N/A)
		16	16通道输入 (16-channel input)	PNP	欧标PNP输出 (European standard PNP output)

* 注：数字量混合用 4 位数字表示，先输入后输出，如 0808 代表 8 通道输入与 8 通道输出。
*Note: For digital mixed type modules, the quantity is represented by four digits, with the first two indicating input and the last two indicating output. For example, "0808" represents 8-channel input and 8-channel output.

3. 适用型号 (Applicable model)

名称 (Name)	型号 (Model)	简要说明	Description
数字量输入模块 Digital input module	HCNXE-ID16-D2	16通道数字量输入，支持NPN和PNP	16-channel digital input, supports NPN and PNP
	HCNXE-ID32-D2	32通道数字量输入，支持NPN和PNP	32-channel digital input, supports NPN and PNP
数字量输出模块 Digital output module	HCNXE-OD16-D2	16通道数字量输出，芯片输出，支持NPN	16-channel digital output, supports NPN
	HCNXE-OD32-D2	32通道数字量输出，芯片输出，支持NPN	32-channel digital output, supports NPN
数字量混合模块 Mixed digital input/digital output module	HCNXE-MD0808-D2	8通道数字量输入8通道数字量输出，芯片输出，支持NPN和PNP型输入方式和NPN型输出方式	8-channel digital input & 8-channel digital output, supports NPN and PNP input and NPN output
	HCNXE-MD1616-D2	16通道数字量输入16通道数字量输出，芯片输出，支持NPN和PNP型输入方式和NPN型输出方式	16-channel digital input & 16-channel digital output, supports NPN and PNP input and NPN output
	HCNXE-MD2408-D2	24通道数字量输入8通道数字量输出，芯片输出，支持NPN和PNP型输入方式和NPN型输出方式	24-channel digital input & 8-channel digital output, supports NPN and PNP input and NPN output
模块防护罩 Module protective cover	HCNXE-PRO16	防尘及保护HCNXE系列16通道模块	Dust-proofs and safeguards the 16-channel modules of the HCNXE
	HCNXE-PRO32	防尘及保护HCNXE系列32通道模块	Dust-proofs and safeguards the 32-channel modules of the HCNXE

4. 通用电气及环境规格 (General electrical and environmental specifications)

4.1 通用电气规格 (General electrical specifications)				
型号 (Model) *1	额定电压/功率*2	Rated voltage/power*2	数字量输入/输出类型	Digital input/output type
HCNXE-ID16-D2	DC24V, 1.2W	DC24V, 1.2W	数字量输入：DC24V, 4.1mA/Ch, 16Ch	Digital input: DC24V, 4.1mA/Ch, 16Ch
HCNXE-OD16-D2			数字量输出：DC24V, 500mA/Ch, 4A/16Ch*3 负载类型：电感/电灯/电阻负载	Digital output: DC24V, 500mA/Ch, 4A/16Ch*3 Load type: Inductive/Tungsten/Resistive load
HCNXE-MD0808-D2			数字量输入：DC24V, 4.1mA/Ch, 8Ch 数字量输出：DC24V, 500mA/Ch, 2A/8Ch*3 负载类型：电感/电灯/电阻负载	Digital input: DC24V, 4.1mA/Ch, 8Ch Digital output: DC24V, 500mA/Ch, 2A/8Ch*3 Load type: Inductive/Tungsten/Resistive load
HCNXE-ID32-D2			数字量输入：DC24V, 5.2mA/Ch, 32Ch	Digital input: DC24V, 5.2mA/Ch, 32Ch
HCNXE-OD32-D2			数字量输出：DC24V, 500mA/Ch, 8A/32Ch*3 负载类型：电感/电灯/电阻负载	Digital output: DC24V, 500mA/Ch, 8A/32Ch*3 Load type: Inductive/Tungsten/Resistive load
HCNXE-MD1616-D2			数字量输入：DC24V, 5.2mA/Ch, 16Ch 数字量输出：DC24V, 500mA/Ch, 4A/16Ch*3 负载类型：电感/电灯/电阻负载	Digital input: DC24V, 5.2mA/Ch, 16Ch Digital output: DC24V, 500mA/Ch, 4A/16Ch*3 Load type: Inductive/Tungsten/Resistive load
HCNXE-MD2408-D2			数字量输入：DC24V, 5.2mA/Ch, 24Ch 数字量输出：DC24V, 500mA/Ch, 2A/8Ch*3 负载类型：电感/电灯/电阻负载	Digital input: DC24V, 5.2mA/Ch, 24Ch Digital output: DC24V, 500mA/Ch, 2A/8Ch*3 Load type: Inductive/Tungsten/Resistive load

* 注：1. 所有型号仅能在由限功率电源 (LPS) 提供的安全特低电压 (SELV) 下运行。
2. 此处标识的额定功率为满负载运行时的最大功率。
3. 考虑温升影响，降额使用。

*Note: 1. All models can only operate under the safety extra low voltage (SELV) provided by a limited power source (LPS).
2. The power rating indicated here is the maximum power under full-load operation.
3. Consider the effect of temperature rise and derate during using.

4.2 环境规格 (Environmental specifications)			
项目	Item	规格	Specifications
海拔高度	Altitude	≤2000m	≤2000m
使用环境	Operating environment	控制柜内安装，开放式及室内使用	Installation within a control cabinet, open-type and indoor use
工作温度	Operating temperature	-10~55°C	-10~55°C
储存温度	Storage temperature	-40~75°C	-40~75°C
环境湿度	Ambient humidity	10~95% RH (无结露)	10~95%RH (non-condensing)
振动耐受	Vibration resistance	5~150Hz (X/Y/Z方向, 1g/3.5mm位移)	5~150Hz (X/Y/Z direction, 1g /3.5mm displacement)
污染等级	Pollution degree	污染度II	Level 2
冷却方式	Cooling method	自然冷却	Natural air cooling

防护等级	IP rating	IP40 (配合防护罩)	IP 40 (use with a guard)
外壳材质	Enclosure material	阻燃材料	Self-extinguishable

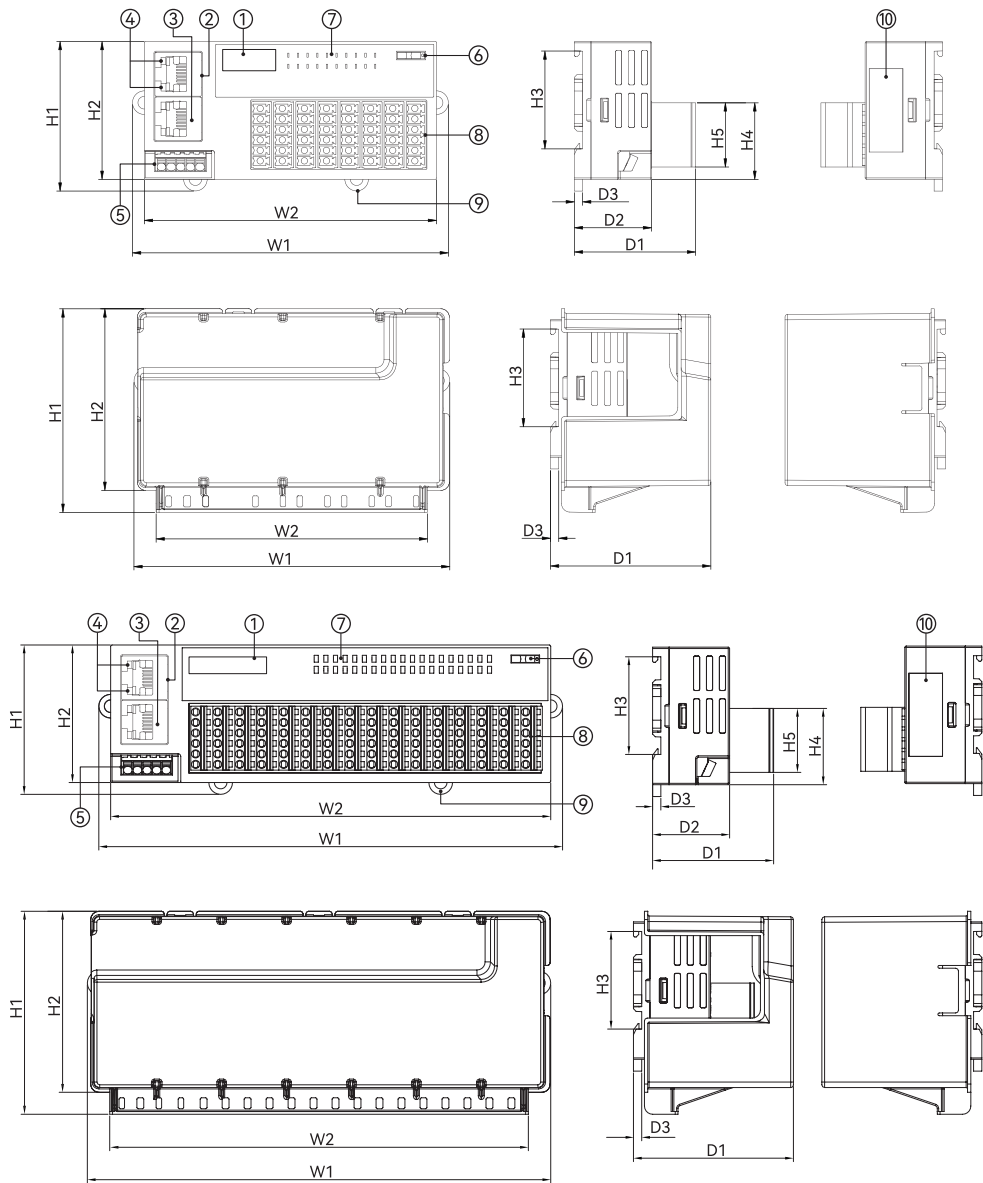
* 注：如果以制造商未规定的方式使用设备，可能会损坏设备。
*Note: The equipment may be damaged if used in a manner not specified by the manufacturer.

5. 安装说明 (Installation instructions)

5.1 控制柜安装 (Installation within a control cabinet)			
CN	设备冷却方式为自然冷却或通过加装风扇进行冷却，请保证安装方向与柜壁垂直；请参考右侧示意图，在设备的周围留有足够的空间。并排安装时，建议横向两侧预留20mm以上间距。		
EN	Please install the product perpendicular to the wall and ensure a sufficient cooling effect via natural air or a cooling fan. Please leave enough clearance around the product as shown in the right figure. During a side-by-side installation, please leave a horizontal clearance of more than 20 mm on both sides.		
5.2 导轨拆装 (DIN rail mounting and dismounting)			
CN	安装模块时，将模块顶部卡槽紧扣在DIN导轨上，并用力按压模块下部，听到“咔哒”声，模块即成功安装于DIN导轨上（安装前应保证卡扣处于紧锁状态，否则可能导致安装故障）；拆卸模块时，将卡扣向下拉动一定距离，听到“咔哒”声后，取下模块即可。	将模块顶部卡槽部紧扣在DIN导轨上，并向导轨侧按压模块 Engage the upper mounting groove of the module onto the DIN rail, and then press the module the DIN rail	②取下模块 Remove the module
EN	Before installation, check that the DIN rail mounting clips are in a locked state. During mounting, engage the upper mounting groove of the module onto the DIN rail, and then press the module towards the DIN rail until a clear click is heard (which indicates the clips are momentarily opened and locked onto the rail). During dismounting, pull the clips downwards until a clear click is heard (which indicates the clips are unlocked), and then directly remove the module.		①向下拉动卡扣 Pull the clips downwards
5.3 整机拆装 (Module mounting and dismounting)			
CN	安装模块时，将两侧的卡扣向外侧拉动，听到“咔哒”声后，在两侧的卡扣内放入两颗M4螺丝，然后拧紧螺丝。拆卸模块时，拧松螺丝，卸下两侧的M4螺丝，随后将卡扣复原，即可完成拆卸。	①向两侧拉动卡扣 Pull the DIN rail mounting latch to both sides	②将卡扣向内推回，取下模块 Press the clips inwards, and then remove the module
EN	During mounting, pull the clips outwards until a clear click is heard. Punch in two M4 screws and then tighten them. During dismounting, unscrew the two M4 screws and remove them. Press the clips inwards, and then remove the module.	 ②打入两颗M4螺丝，拧紧螺丝 Punch in two M4 screws latch, and then tighten the screw	①拧松并卸下两侧的M4螺丝 Unscrew the two M4 screws and remove them
5.4 防护罩拆装 (Guard mounting and dismounting)			
CN	防护罩拆装如右图所示。	 沿箭头方向 竖直安装防护罩 Install the guard vertically along the direction indicated by the arrow	
EN	The mounting and dismounting of the guard are shown in the figures on the right side.		
5.5 可拆卸端子拆装 (Removable terminal block mounting and dismounting)			
CN	可拆卸端子拆装如右图所示。	 沿箭头方向插入端子 Insert the terminal block along the direction indicated by the arrow	
EN	The mounting and dismounting of the removable terminal block are shown in the figures on the right side.		
5.6 线缆拆装 (Cable connecting and disconnecting)			
CN	安装线缆时，将赠送的一字螺丝刀垂直插入可拆卸端子压块内，施加超过 20N 的力，将准备好的线缆插入到圆孔中，拔出一字螺丝刀，轻拽线缆，线缆不松动即成功完成配线；反之即可取出线缆。端子规格及配线示意图如右图所示	①施加超过20N的力 Apply a force of more than 20N	①施加超过20N的力 Apply a force of more than 20N
EN	During connecting, insert the flat-blade screwdriver into the unlocking tab with a force of more than 20 N. Then insert a cable into the circular hole. Gently tug the cable after pulling out the screwdriver. If the cable is secured firmly, then the connection is finished. The reverse is the procedure for unplugging the cable. The terminal specifications and wiring diagram are shown in the right figure.	②将线缆插入到圆孔中 Insert the cable into the circular hole	②将线缆拔出 Unplug the cable
模块端子 (Terminal)		线径范围: AWG (Wire width)	剥线长度: mm (Wire stripping length)
DC24V电源端子 (DC24V power supply terminal)		24-16	9~10
IO端子 (IO terminal)		26-16	8-9
		按压力: N (Pressure)	20
		 剥线长度 Wire stripping length	

警告：只能使用75℃铜导线。
Warning: Use only a copper conductor that is 75°C.
Attention: Utilisez uniquement un conducteur en cuivre à 75°C.

6. 接口和尺寸说明 (Interface and dimension description)



序号 (No.)	名称	Name	功能	Function
1	产品型号	Product model	模块型号	Module model numbers
2	EtherCAT IN 通讯接口	EtherCAT IN communication interface	支持EtherCAT信号输入	Supports EtherCAT signal input
3	EtherCAT OUT通讯接口	EtherCAT OUT communication interface	支持EtherCAT信号输出	Supports EtherCAT signal output
4	通讯指示灯	Communication indicator	显示接口通讯状态	Displays the communication status of the interface
5	DC24V电源端子	DC24V power supply terminal	DC24V供电接口	DC24V power supply interface
6	NPN/PNP切换开关*	NPN/PNP DIP switch*	切换输入接线方式，向左拨动为NPN接线方式，向右拨动为PNP接线方式	Switches the input wiring mode (toggled to the left: NPN wiring mode; toggled to the right: PNP wiring mode)
7	模块状态指示灯	Module status indicator	显示模块状态、IO电源状态及端子状态	Displays the module status, the IO power supply status, and the terminal status
8	16Pin IO端子	16Pin IO terminal	16通道数字量输入/输出	16-channel digital input/output
9	双向联动卡扣	DIN rail mounting latch	固定模块在DIN导轨上	Mount the module onto a DIN rail
10	标签	Label	显示模块型号、规格参数、内部序列号等基本信息	Display the basic information including module model, specification parameters, and internal serial number

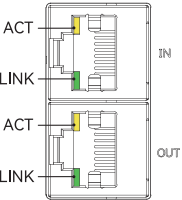
* 注：HCNXE-OD16-D2 和 HCNXE-OD32-D2 不具有 NPN/PNP 切换开关。
*Note: HCNXE-OD16-D2 and HCNXE-OD32-D2 are not equipped with NPN/PNP toggle switch.

型号 (Model)	外形尺寸 (Dimension) : mm										重量 (Weight) : g
	W1	W2	H1	H2	H3	H4	H5	D1	D2	D3	
HCNXE-ID16-D2	114.60	106.00	54.25	50.00	35.40	27.75	23.25	44.00	28.00	3.00	100 approx.
HCNXE-OD16-D2											
HCNXE-MD0808-D2											
HCNXE-PRO16	98.5	73.85	65.85	-		-	58.20	-	54 approx.		
HCNXE-ID32-D2	168.60	160.00	54.30	50.00		27.75	23.25	44.00	28.00		210 approx.
HCNXE-OD32-D2											
HCNXE-MD1616-D2											
HCNXE-MD2408-D2											
HCNXE-PRO32					152.30					73.85	

7. 指示灯说明 (Indicator description)

HCNXE-ID16-D2	HCNXE-OD16-D2	HCNXE-MD0808-D2
HCNXE-ID32-D2	HCNXE-OD32-D2	HCNXE-MD2408-D2

丝印 (Screen printing)	指示灯含义 (Indicator meaning)	颜色 (Color)	状态	Status	说明	Description	
ID16 / OD16 / MD0808 / ID32 / OD32 / MD1616 / MD2408							
PWR	电源 (Power supply)	绿色 (Green)		熄灭	Not lit	模块供电电压不足或未供电	Insufficient power supply voltage or no power supply
				常亮	Lit	模块供电正常	Normal power supply
RUN	运行 (Run)	黄色 (Yellow)		熄灭	Not lit	正常运行	Run
				常亮	Lit	停止	Stop
IO-PW	IO端子电源 (IO terminal power supply)	绿色 (Green)		熄灭	Not lit	对外供电电压不足或未供电	Insufficient power supply voltage or no power supply
				常亮	Lit	对外供电正常	Normal power supply
ID32 / OD32 / MD1616 / MD2408							
A1/A2	保留 (Reserved)	-	-	-	-	-	
OD16 / MD0808 / OD32 / MD1616 / MD2408							
Y-ERR	输出通道故障 (Output channel error)	红色 (Red)		熄灭	Not lit	无故障发生	No error occurred
				常亮	Lit	过流或短路或过温报警 (硬件报错)	Over-current/short-circuit/over-temperature alarm (hardware error)
ID16 / MD1616							
X N (0~7,10~17)	输入 (Input)	绿色 (Green)		熄灭	Not lit	输入通道N未检测到输入信号	The input channel N has not detected input signals
				常亮	Lit	输入通道N检测到输入信号	The input channel N has detected input signals
OD16 / MD1616							
Y N (0~7,10~17)	输出 (Output)	绿色 (Green)		熄灭	Not lit	输出通道N 无输出信号	There is no output signal in this channel
				常亮	Lit	输出通道N 有输出信号	There are output signals in this channel
MD0808							
X N (0~7)	输入 (Input)	绿色 (Green)		熄灭	Not lit	输入通道N未检测到输入信号	The input channel N has not detected input signals
				常亮	Lit	输入通道N检测到输入信号	The input channel N has detected input signals
MD2408							
X N (0~7,10~17,20~27)	输入 (Input)	绿色 (Green)		熄灭	Not lit	输入通道N未检测到输入信号	The input channel N has not detected input signals
				常亮	Lit	输入通道N检测到输入信号	The input channel N has detected input signals
MD0808 / MD2408							
Y N (0~7)	输出 (Output)	绿色 (Green)		熄灭	Not lit	输出通道N 无输出信号	There is no output signal in this channel
				常亮	Lit	输出通道N 有输出信号	There are output signals in this channel
ID32							
X N (0~7,10~17, 20~27,30~37)	输入 (Input)	绿色 (Green)		熄灭	Not lit	输入通道N未检测到输入信号	The input channel N has not detected input signals
				常亮	Lit	输入通道N检测到输入信号	The input channel N has detected input signals
OD32							
Y N (0~7,10~17, 20~27,30~37)	输出 (Output)	绿色 (Green)		熄灭	Not lit	输出通道N 无输出信号	There is no output signal in this channel
				常亮	Lit	输出通道N 有输出信号	There are output signals in this channel
ID16 / OD16 / MD0808 / ID32 / OD32 / MD1616 / MD2408							
IN ACT	EtherCAT IN 通讯 (EtherCAT IN communication)	黄色 (Yellow)		熄灭	Not lit	控制器与 EtherCAT 从站无数据交互	No data exchange between the controller and the EtherCAT slave
				常亮	Lit	控制器与 EtherCAT 从站存在数据交互	There is a data exchange between the controller and the EtherCAT slave
IN LINK	EtherCAT IN 连接 (EtherCAT IN connection)	绿色 (Green)		熄灭	Not lit	控制器与 EtherCAT 从站无物理连接	No physical connection between the controller and the EtherCAT slave
				常亮	Lit	控制器与 EtherCAT 从站存在物理连接	There is a physical connection between the controller and the EtherCAT slave
OUT ACT	EtherCAT OUT 通讯 (EtherCAT OUT communication)	黄色 (Yellow)		熄灭	Not lit	模块与 EtherCAT 从站无数据交互	No data exchange between the module and the EtherCAT slave
				常亮	Lit	模块与 EtherCAT 从站存在数据交互	There is a data exchange between the module and the EtherCAT slave

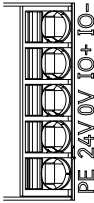
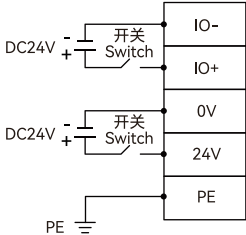


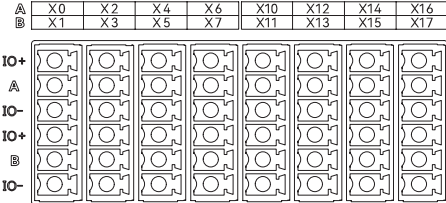
OUT LINK	EtherCAT OUT 连接 (EtherCAT OUT connection)	绿色 (Green)		熄灭	Not lit	模块与 EtherCAT 从站无物理连接	No physical connection between the module and the EtherCAT slave
				常亮	Lit	模块与 EtherCAT 从站存在物理连接	There is a physical connection between the module and the EtherCAT slave

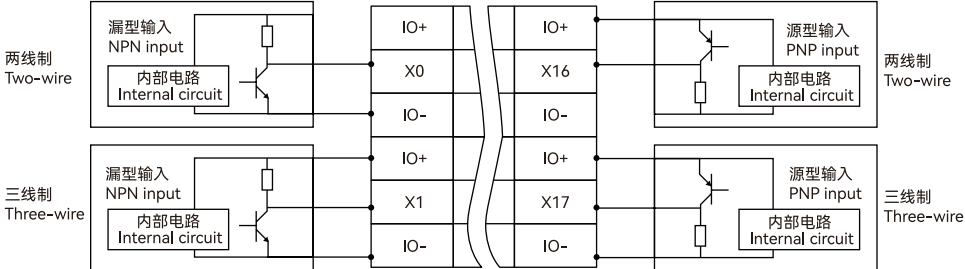
8. 端子及配线说明 (Terminal and wiring description)

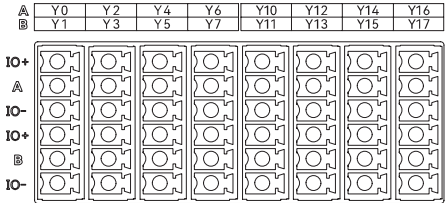
类型(Type)	型号(Model)	输入 (Input)		输出 (Output)	
		PNP	NPN	PNP	NPN
	HCNXE-ID16-D2	○	○	-	-
	HCNXE-OD16-D2	-	-	-	○
	HCNXE-MD0808-D2	○	○	-	○
	HCNXE-ID32-D2	○	○	-	-
	HCNXE-OD32-D2	-	-	-	○
	HCNXE-MD1616-D2	○	○	-	○
	HCNXE-MD2408-D2	○	○	-	○

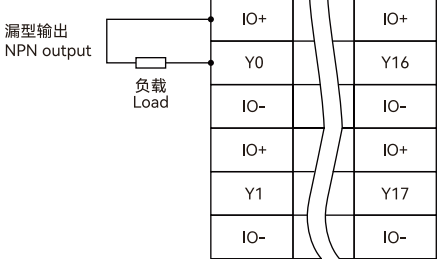
* 注：○：代表支持该类型；-：代表不支持该类型。
*Note: The symbol "○" indicates that the type is supported. The symbol "-" indicates that the type is not supported.

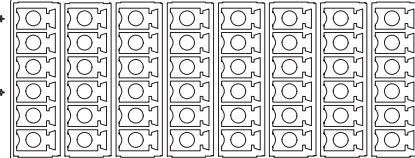
DC24V电源端子说明(DC24V power supply terminal description)				接线(Wiring)			
IO-		IO+		0V		24V	
0V		24V		PE			
24V							
PE							

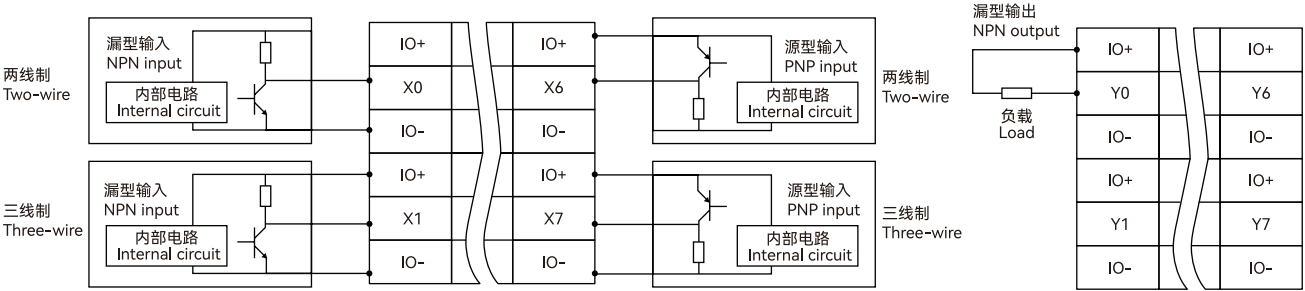
端子说明(Terminal description)				HCNXE-ID16-D2			
				IO+	IO+	IO+	IO+
				X0	X2	X4	X6
				IO-	IO-	IO-	IO-
				IO+	IO+	IO+	IO+
				X1	X3	X5	X7
				IO-	IO-	IO-	IO-

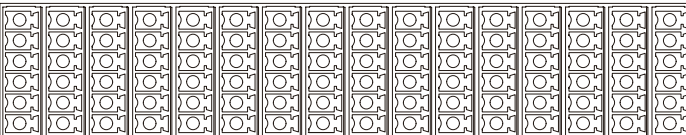
接线(Wiring)			
			

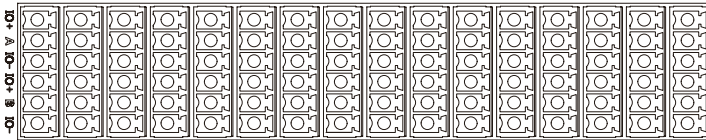
端子说明(Terminal description)				HCNXE-OD16-D2			
				IO+	IO+	IO+	IO+
				Y0	Y2	Y4	Y6
				IO-	IO-	IO-	IO-
				IO+	IO+	IO+	IO+
				Y1	Y3	Y5	Y7
				IO-	IO-	IO-	IO-

接线(Wiring)			
			

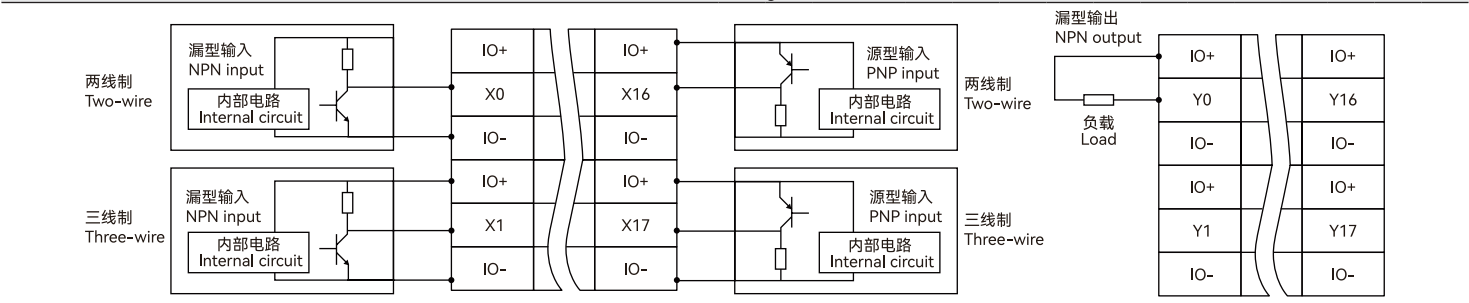
端子说明(Terminal description)									HCNXE-MD0808-D2								
A	X0	X2	X4	X6	Y0	Y2	Y4	Y6	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+
	X1	X3	X5	X7	Y1	Y3	Y5	Y7									
IO+ A									X0	X2	X4	X6	X0	X2	X4	X6	
									IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	
									IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	
									X1	X3	X5	X7	X1	X3	X5	X7	
IO+ B									IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-
	接线(Wiring)																

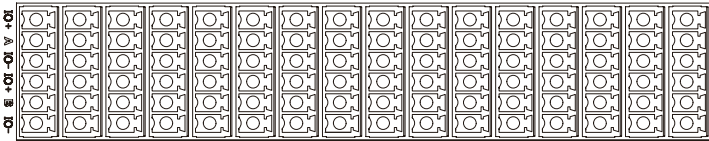


端子说明(Terminal description)																HCNxE-ID32-D2																
A	X0	X2	X4	X6	X10	X12	X14	X16	X20	X22	X24	X26	X30	X32	X34	X36	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+			
B	X1	X3	X5	X7	X11	X13	X15	X17	X21	X23	X25	X27	X31	X33	X35	X37	X0	X2	X4	X6	X10	X12	X14	X16	X20	X22	X24	X26	X30	X32	X34	X36
IO+																																
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端子说明(Terminal description)																HCNXE-MD1616-D2															
A	X0	X2	X4	X6	X10	X12	X14	X16	Y0	Y2	Y4	Y6	Y10	Y12	Y14	Y16	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+			
B	X1	X3	X5	X7	X11	X13	X15	X17	Y1	Y3	Y5	Y7	Y11	Y13	Y15	Y17	X0	X2	X4	X6	X10	X12	X14	X16	Y0	Y2	Y4	Y6			
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-			
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-			
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-			
	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-			
接线(Wiring)																															

接线(Wiring)



端子说明(Terminal description)														HCNxE-MD2408-D2													
A	X0	X2	X4	X6	X10	X12	X14	X16	X20	X22	X24	X26	Y0	Y2	Y4	Y6	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+
B	X1	X3	X5	X7	X11	X13	X15	X17	X21	X23	X25	X27	Y1	Y3	Y5	Y7	X0	X2	X4	X6	X10	X12	X14	X16	X20	X22	X24
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-
	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO+	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-	IO-

接线(Wiring)

