

2.7 线缆拆装 1 (Cable connecting and disconnecting I)

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 10N 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。

EN During connecting, insert the flat-blade screwdriver into the unlocking tab with a force of more than 10 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.

①施加超过10N的力
Apply a force of more than 10N

②将线缆插入到圆孔中
Insert the cable into the circular hole

①施加超过10N的力
Apply a force of more than 10N

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)
HCMX-EC01 DC24V电源端子 (DC24V power supply terminal)	28~12	7~8
HCMXE-MD16 DC24V电源端子 (DC24V power supply terminal)	26~12	10~11

剥线长度
Wire stripping length

线径范围
Wire width

2.8 线缆拆装 2 (Cable connecting and disconnecting II)

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 10N 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。

EN During connecting, insert the flat-blade screwdriver into the unlocking tab with a force of more than 10 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.

①施加超过10N的力
Apply a force of more than 10N

②将线缆插到圆孔中
Insert the cable into the circular hole

①施加超过10N的力
Apply a force of more than 10N

②将线缆拔出
Unplug the cable

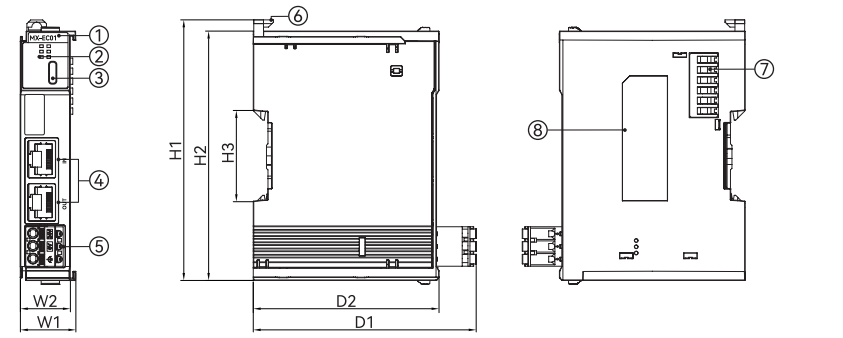
模块端子 (Terminal)	线径范围: AWG (Wire width)	剥线长度: mm (Wire stripping length)
18Pin IO 端子 (18Pin IO terminal)	24~18	8~9

剥线长度
Wire stripping length

线径范围
Wire width

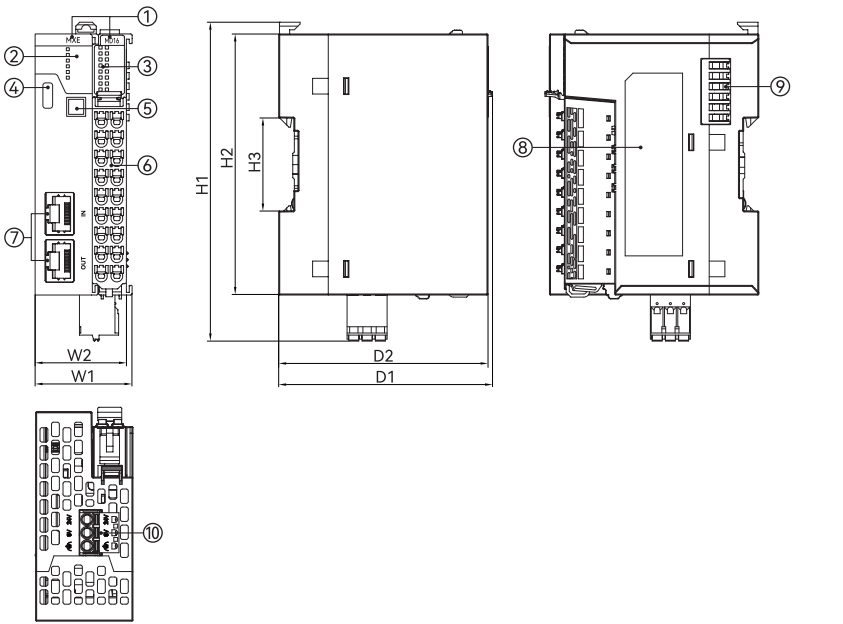
3. 接口和尺寸说明 (Interface and dimension description)

序号(No.)	项目	Item
1	产品型号	Product model
2	模块状态指示灯	Module status indicator
3	Type-C 接口	Type-C interface
4	EtherCAT通讯接口	EtherCAT communication interface
5	DC24V电源端子	DC24V power supply terminal
6	双向联动卡扣	DIN rail mounting latch
7	扩展模块通讯接口	Expansion module communication interface
8	标签	Label



型号 (Model)	外形尺寸 (Dimension) : mm							重量 (Weight) : g
	W1	W2	H1	H2	H3	D1	D2	
HCMX-EC01-D	22.25	20.05	104.50	100.00	35.40	89.40	74.50	80 approx.

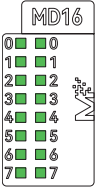
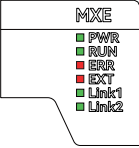
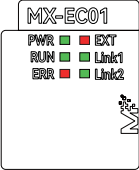
序号(No.)	项目	Item
1	产品型号	Product model
2	模块状态指示灯	Module status indicator
3	通道状态指示灯	Channel status indicator
4	Type-C接口	Type-C interface
5	二维码	QR code
6	18Pin IO端子	18Pin IO terminal
7	EtherCAT通讯接口	EtherCAT communication interface
8	标签	Label
9	扩展模块通讯接口	Expansion module communication interface
10	DC24V电源端子	DC24V power supply terminal



型号 (Model)	外形尺寸 (Dimension) : mm							重量 (Weight) : g
	W1	W2	H1	H2	H3	D1	D2	
HCMXE-MD16-D	37.30	35.00	122.15	100.00	35.40	81.92	80.20	147 approx.

4. 指示灯说明 (Indicator description)

丝印 (Screen printing)	指示灯含义 (Indicator meaning)	颜色 (Color)	状态	Status	说明	Description
HCMX-EC01-D / HCMXE-MD16-D						
PWR	电源 (Power supply)	绿色 (Green)		熄灭 Not lit	供电电压不足或未供电	Insufficient power supply voltage or no power supply
				常亮 Lit	供电正常	Normal power supply
RUN	运行 (Run)	绿色 (Green)		熄灭 Not Lit	初始化状态	Initialization
				快闪 Fast blinking	预运行状态	Pre operational
				慢闪 Slow blinking	安全运行状态	Safe operational
				常亮 Lit	运行状态	Operational
ERR	EtherCAT错误 (EtherCAT error)	红色 (Red)		熄灭 Not Lit	通讯正常或无供电	Communication is normal or no power supply
				闪烁 Blinking	连接中断或通讯异常	Interrupted connection or abnormal communication
				常亮 Lit	供电电压过低或芯片初始化失败	Low supply voltage or chip initialization failure
EXT	右侧扩展故障 (Right-side expansion error)	红色 (Red)		熄灭 Not Lit	右侧扩展正常或无供电	Right-side expansion is normal or has no power supply
				闪烁 Blinking	设备配置信息错误 / 模块掉线 / 供电电压过低	Device configuration information error/ Module disconnection/ Low power supply
				常亮 Lit	右侧无扩展模块	No expansion module on the right side
Link1	EtherCAT IN 连接 (EtherCAT IN connection)	绿色 (Green)		熄灭 Not Lit	IN通讯口无物理连接	The IN communication port has no physical connection
				闪烁 Blinking	IN通讯口有物理连接及数据交互	The IN communication port has a physical connection and data exchange
Link2	EtherCAT OUT 连接 (EtherCAT OUT connection)	绿色 (Green)		常亮 Lit	IN通讯口有物理连接但无数据交互	The IN communication port has a physical connection but no data exchange
				熄灭 Not Lit	OUT通讯口无物理连接	The OUT communication port has no physical connection
				闪烁 Blinking	OUT通讯口有物理连接和数据交互	The OUT communication port has a physical connection and data exchange
I N (0~7)	输入 (Input)	绿色 (Green)		常亮 Lit	OUT通讯口有物理连接但无数据交互	The OUT communication port has a physical connection but no data exchange
				熄灭 Not Lit	输入通道 N 未检测到输入信号	The input channel N has not detected an input signal
Q N (0~7)	输出 (Output)	绿色 (Green)		常亮 Lit	输入通道 N 检测到输入信号	The input channel N has detected an input signal
				熄灭 Not lit	输出通道 N 无输出信号	The output channel N has no output signal
				常亮 Lit	输出通道 N 有输出信号	The output channel N has an output signal



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

型号(Model)	类型(Type)	输入 (Input)		输出 (Output)	
		PNP	NPN	PNP	NPN
HCMXE-MD16-D		○	○	-	○

* 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)	
24V			
0V			

IO端子说明 (IO terminal description)		HCMXE-MD16		接线 (Wiring)	
0		10	I0	Q0	
1		11	I1	Q1	
2		12	I2	Q2	
3		13	I3	Q3	
4		14	I4	Q4	
5		15	I5	Q5	
6		16	I6	Q6	
7		17	I7	Q7	
8		18	S0	COM	