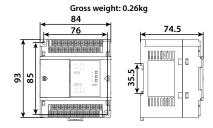
HC10 Series IO Module Installation and User Manual (HC10-L0808R/HC10-L1600/HC10-L0016R)

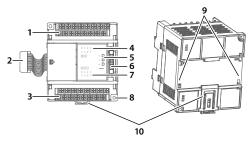


- · Be sure to check the terminal label carefully when wiring.
- Avoid installation in places exposed to direct sunlight, moisture, or water.
- Avoid installation in places with flammable and explosive gases and liquids.
- · Avoid installation in areas with oily dust, fibers and metal particles.
- · Use rails or M3 screws for installation.

Dimensions Size (mm)



Structure Description



1/3	Input/output terminal	5	Power/run/fault indicator LED	9	DIN guideway groove
2	Extension cable	6	Expansion port	10	DIN rail fixing buckle
4/7	Input/output indicator	8	Mounting hole (M3)		

Terminal Description

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HC10-L0808R		X0 X2 X4 X6 · · · ·			
X0 ~ X7, S/S	Digital input	S/S X1 X3 X5 X7 · · ·			
Y0 ~ Y3, COM0 Y4 ~ Y7, COM1	Relay output	Y1 Y3 COM1 Y5 Y7 · · · Y0 Y2 COM0 Y4 Y6 · · · ·			
HC10-L1600	•	X0 X2 X4 X6			
X0 ~ X7, S/S X10 ~ X17, S/S	Digital input	S/S X1 X3 X5 X7 . . . X11 X13 X15 X17 .			
HC10-L0016R		Y0 Y2 COM0 Y4 Y6 · · ·			
Y0 ~ Y3, COM0 Y4 ~ Y7, COM1 Y10 ~ Y13, COM2 Y14 ~ Y17, COM3	Relay output	Y1 Y3 COM1 Y5 Y7 . . Y11 Y13 COM3 Y15 Y17 . . . Y10 Y12 COM2 Y14 Y16 . . .			

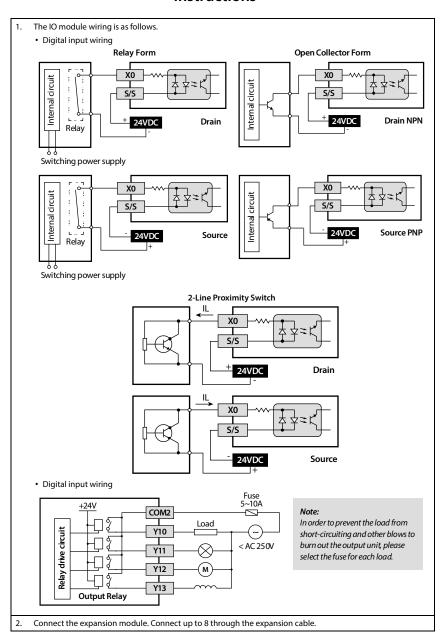
Product Specifications

General Specifications					
Environmental temperature	Run: -10 ~ +55°C; Storage: -40 ~ +70°C				
Relative humidity	<95%, no condensation				
Altitude	Run: <2000m; Storage: 0 ~ 3000m (not less than 70kPa)				
Pollution level	Pollution level 2				

Digital Input Specification (HC10-L0808R/-L1600)			
Points	Digital input		
Connection	Barrier terminal block (end point distance: 7.62mm)		
Action display	LED light goes on with system's operation, LED light goes out when system is shut-down		
Common	S/S		
Signal form	Contact input or source (drain) mode		
Circuit insulation	Photoelectrical coupling insulation		
Voltage range	15 ~ 30VDC		
Current	ON: >3.5mA (>15V);		
Current	OFF: <1.2mA (<5V)		
Resistance	4.7kΩ		
Hardware filtering time	About 200us		

Digital Output Specification (HC10-L0808R/-L0016R)				
Points		Relay output		
Conne	ection	Barrier terminal block (end point distance: 7.62mm)		
Action	display	LED light goes on with system's operation, LED light goes out when system is shut-down		
Common		Every four groups of one common, group and group isolated		
Circuit insulation		Mechanical insulation		
Response time		/		
External voltage		250VAC, below 30VDC		
	Resistive	3A/1 point (5A/COM)		
Max.	Inductive	80VAC		
load	Light bulb	2W (DC)/100W (AC)		

Instructions



- 3. Power on, the expansion module will be identified automatically.
 - According to the distance from the main module, the expansion modules are automatically numbered as 0,1,2,3,4,5,6,7.
 - D8265 ~ D8279 can view module type, HC10-L0808R module type is 0x10, HC10-L1600 module type is 0x11, HC10-L0016R module type is 0x12.

HC10-L0808R (0x10)/HC10-L1600 (0x11)/HC10-L0016R (0x12)								
Number	1st	2nd	3rd	4th	5th	6th	7th	8th
Auto Number	0	1	2	3	4	5	6	7
Mapped Address	D8265	D8267	D8269	D8271	D8273	D8275	D8277	D8279

4. Module address mapping and usage.

Module Data Address	Data Content	Read/Write
0	Module type (0x10/0x11/0x12)	Read only
1	Software version (V100)	Read only
2~4	Reserved	/
5 ¹⁾	X terminal status (X0 ~ X7, X10 ~ X17)	Read only
6	Reserved	/
7 ²⁾	Y terminal status (Y0 ~ Y7, Y10 ~ Y17)	Read only
8	Reserved	/
9	X terminal filter time	Read&write

1): The status of the X terminal will be automatically synchronized to the X register mapping area of the main module (automatically arranged in order according to the module number from small to large, and each module is arranged according to the octal integer group), without automatically reading through command.

2): The Y terminal status is automatically synchronized to the Y register mapping area of the main module, and only need to change the value of the Y module mapping area of the main module to control the output of the corresponding expansion module.

- Read the input data through FROM command (FROM S1 S2 S3 S4).
 - · S1: Module number.
 - · S2: Module data read starting address.
 - S3: Read data and store in register. When reading multiple data, store them in successive data registers from this address in sequence.
 - · S4: Read data length.
- Write the output data through TO command and select the type of output current and voltage (TO S1 S2 S3 S4).
 - S1: Module number.
 - · S2: Module data write start address.
 - S3: Write data. When writing multiple data, write them in successive data registers from this address.
 - · S4: Write data length.