UB-10-ID32A UB-10-OR16A UB-10-OR16B UB-10-OT32A

Instruction Sheet

External Terminal Modules 配線模組 配线模块

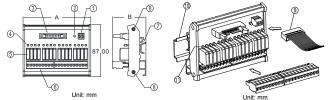


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*2: You can use the Delta standard I/O extension cable UC-ET010-24A (IDC 40P-40P)

UB-10-OR16A/B



1. 2-PIN power input terminal block	2. Power LED indicator	3. 20-pin latch connector
4. Output LED indicator	5. Output relay	6. 9-pin and 11-pin output terminal blocks
7. Clip	8. Set screw	9. 20-pin IDC connector*3
10. DIN rail	11. Output LED indicator	

*3: You can use the Delta standard I/O extension cable UC-ET010-24C (IDC 40P-20Px2)

UB-10-	ID32A/OT32A	OR16A/B
Α	113.00	113.00
В	53.60	55.30

■ Model Description

		Inj	out Unit	Out	tput Unit	Applicable I/O	
Model Name	Power	Number of inputs Type		Number of outputs	Туре	module	
UB-10-ID32A	N/A	32	Please refer to the specifications for the module connected.	0	N/A	DVP32SM11N AH32AM10N-50 AH64AM10N-50	
UB-10-OR16A	24 V DC#	0	N/A	16	Relay	DVP32SN11TN AH32AN02T-50 AH64AN02T-50	
UB-10-OR16B						AH32AN02P-50 AH64AN02P-50	
UB-10-OT32A 24 V DC 0		N/A	32	Please refer to the specifications for the module connected.	DVP32SN11TN AH32AN02T-50 AH32AN02P-50 AH64AN02T-50 AH64AN02P-50		

#: +24V and GND must conne consumption is 1 mA/point.

■ I/O Extension cable

Model	Length	Number of pins	Connector	Applicable model						
UC-ET010-24A	1 m	40P-40P	IDC connectors at the both ends	UB-10-ID32A and UB-10-OT32A						

Number of Applicable model UC-ET010-24C 1 m 40P-20Px2 UB-10-OR16A and UB-10-OR16B

/!\ Warning

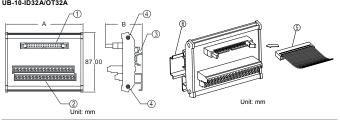
- Please read this instruction sheet carefully before using the product.
- ✓ It is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent the non-maintenance staff from operating the product, or to prevent an accident from damaging the product, the control cabinet should be equipped with a safeguard. For example the control cabinet is unlocked with a special tool or key.
- ✓ DO NOT connect the input AC power supply to any of I/O terminals; otherwise serious damage may occur. Check all the wiring again before switching on the power supply. Do NOT touch any terminals when the power supply. supply is switched on.

• Introduction

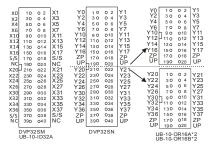
Thanks for adopting Delta accessories UB-10-ID32A, UB-10-OR16A, UB-10-OR16B, and UB-10-OT32A. These accessories are external terminal modules connected to Delta I/O modules. UC-ET010-24A and UC-ET010-24C are I/O

■ Product Profile & Outline

UB-10-ID32A/OT32A



1. 40-pin latch connector*1	2. 36-pin input terminal block	3. Clip	
4. Set screw	5. 40-pin IDC connector*2	6. DIN rail	



Specifications

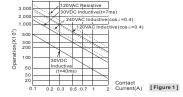
Electrical Specifications

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Model	UB-10-ID32A/OT32A UB-10-OR16A/B												
Insulation resistance	> 5 MΩ (The insulation voltage between all inputs/outputs and the ground is 500 V DC.)												
Operation/Storage	Operation: 0~55°C (temperature); 5~95% (humidity); pollution degree 2 Storage: -25~70°C (temperature); 5~95% (humidity)												
Weight (g) 166 g 216 g													

■ Specifications for the Outputs on UB-10-OR16A/B

•		•						
Туре		Relay-R						
Current spe	ecification	2 A/point (5A/COM)						
Voltage spe	ecification	< 250 V AC; below 30 V DC						
Maximum	Inductance	Life cycle curve						
load	Bulb	20 W DC/100 W AC						
Response t	time	Approximately 10 ms						

#: Life cycle curve



1 Installation & Wiring

■ Terminals on the External Terminal Module

UB-10-ID32A

per ow	X0	X2	X4	X6	X10	X12	X14	X16	X20	X22	X24	X26	X30	X32	X34	X36	S/S	S/S
wer	X1	хз	X5	X7	X11	X13	X15	X17	X21	X23	X25	X27	X31	X33	X35	X37	S/S	S/S

GND +24V CO | Y0 | Y1 | Y2 | Y3 | C1 | Y4 | Y5 | Y6 | Y7 | C2 | Y10 | Y11 | Y12 | Y13 | C3 | Y14 | Y15 | Y16 | Y17 | Y17 | Y17 | Y17 | Y17 | Y18 | Y17 | Y18 | Y17 | Y18 | Y18

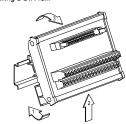
UB-10-OT32A

Upper row	Y0	Y2	Y4	Y6	Y10	Y12	Y14	Y16	Y20	Y22	Y24	Y26	Y30	Y32	Y34	Y36	+24V	+2
Lower	Y1	Y3	Y5	Y7	Y11	Y13	Y15	Y17	Y21	Y23	Y25	Y27	Y31	Y33	Y35	Y37	GND	GI

Installation

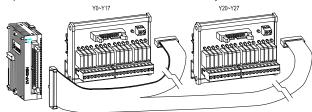
Installing a DIN rail

UB-10-OR16A/B



Next, put the external terminal module on the DIN rail. Please make sure that the external terminal module is tightly combined with the DIN rail. push the external terminal module in the direction indicated by arrow 2, and pull it in the direction

Example: DVP32SN11TN is connected to UB-10-OR16A in the way shown below.



Points for attention about the environ

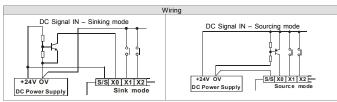


- > DO NOT install the module in an environment exposed to corrosive substances such as chloride gas and sulfide gas, flammable substances such as oil mist and cutting powder, or dirt.
- DO NOT install the module in a high-temperature an humid environment, or in a place which is
- ightharpoonup bind the signal cables and the power cables together or use

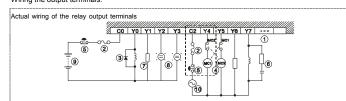
■ Wiring the I/O Terminals

Wiring the input terminals:

The input signals are DC inputs. Sinking and sourcing are current driving capabilities of a circuit. They are defined as follows.



Wiring the output terminals



Other output terminals	6. Surge absorber *3								
2. Fuse	7. Inductive load								
3. Reverse current protection diode*1	8. Incandescent lamp (resistive load)								
4. Mutually exclusive output*2	9. DC power supply								
5. Emergency stop: An external switch is used.	10. AC power supply								

- *1: There is no intermal protection circuit inside the output relays of UB-10-OR16A/B. Therefore, if UB-10-OR16A/B is connected to a DC inductive load, please connect a reverse current protection diode in parallel to extend the life of the contact. The reverse current protection diode must meet the following specifications.
 - a. It must endure 5~10 times at most the amount of the load voltage
 - b. Its forward current has to be bigger than the load current.
- *2: The mutually exclusive output uses an external circuit and forms an interlock circuit. The interlock circuit and the program in a PLC ensure that there are protective measures if an abnormal condition occurs.
- *3: There is no internal protection circuit inside the output relays of UB-10-OR16A/B. Therefore, if UB-10-OR16A/B is connected to an AC inductive load, please connect it to a surge absorber (0.1 uF + "100 ohm to 120 ohm") in parallel to reduce the noise generated by the AC load and extend the life of the
- Note: Please select proper diameters of cables. If modules are operated for a long time, and diameters of cables are not sufficient, the cables may be overheated and sparks..

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