OpenNet Controller

Made in Japan Read this instruction sheet and the OpenNet Controller user's manual to make sure of correct operation. Keep this instruction sheet at the end

FC3A-R161, FC3A-R162, FC3A-T16K1, FC3A-T16K3, FC3A-T32K4, FC3A-T32KS, FC3A-DA1221

● Terminal Arrangement

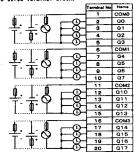
Connect an IEC60127-approved fuse at the position indicated in the circuit diagram below to meet voltage and current requirements. For details about output modules, see the OpenNet Controller

The following symbols represent a fuse and a load.

16-point Relay Output Module COM terminals are not connected together

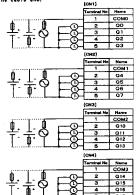
internally. FC3A-R161

Terminal No. are indicated on the terminal label on the screw terminal block.



FC3A-R162

Terminal No. are indicated on the female connector at the cable and.



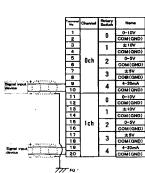
16-point Transistor Sink Output Module FC3A-T16K1

Terminal No. are indicated on the terminal label on the screw terminal block.

	Terminal No	Name
	1	QO
- ← ©-	2	Q1
- ©-	3	Q2
+ ©-	4	Q3
+ -⊙-	5	Q4
Œ	6	95
← ©–	7	Q6
. ഥ⊙⊸	8	Q7
1	-	COM
!-\	10	+
-+1 	11	010
++ ©-	12	Q11
++9-	13	012
 	14	013
++	15	Q14
+/ ®-	16	015
+/- ®-	17	016
4 -0-	18	Q17
	19	COM(-
	20	+٧

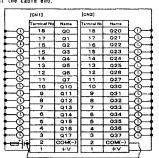
FC3A-T16K3 Terminal ! at the cal

lo, are indicate	d on the	female	co	
ble end. [ON1]				
	Terminal No	Name		
	1	QO.		
. - জ–	2	01		
 -©-	3	02		
I +-Ğ-	4	Q3		
 •	5	Q4		
	6	Q5		
}	7	œ.		
↓ . □ ⊙-	8	97		
• ←=-	•	COM(-)		
 	10	+		
[ON2]				
1 1	Terminal No			
- O	1	010		
_(<u>+</u> +(ŏ-	2	Q11		
 O-	3	012		
1 ++0-	4	013		
I 1 ⊕		Q14		
I II -0	- 6	Q15		
 // ঊ−	7	Q16		
1 4- 0-	8	Q17		
L	-	COM(-)		
	10	<u>+</u> v		



32-point Transistor Sink Output Module FC3A-T32K4

Terminal No. are indicated on the female connector at the cable end.



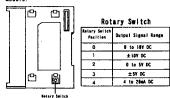
FC3A-T32K5

Terminal No. represent the pin arrangement of the male connector on the module as shown in the diagram. Note: Be sure to connect two COM(-) terminals and two +V terminals, respectively.

Note: Do not connect any wiring to MC (no connection) B20 0 0 0 A20 619 0 0 A18 817 0 0 A18 816 0 0 A15 815 0 0 A15 816 0 0 A15 816 0 0 A15 817 0 0 A17 818 0 0 A18 819 0 0 A18 810 0 0 A18 811 0 0 A18 812 0 0 A18 813 0 0 A18 814 0 0 A18 815 0 0 A18 816 0 0 A8 817 0 0 A2 818 0 0 A8 819 0 0 A11 031 A10 032 A9 033 A9 033 A9 034 A1 035 A1 035 A1 037 A1 036 A1 037 A1 036 A1 004

2-channel Analog Output Module FC3A-DA1221

Analog output module can select an output signal range using the rotary switch on the side of the module.

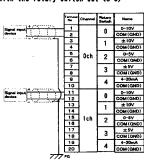


Note: After changing the rotary switch setting while the CPU module is powered up, preas the communication enable button on the CPU module for more than 4 seconds until the ERROR LED blinks once; then the new output signai range takes effect.

Terminai Arrangement

Torainal No. are indicated on the terminal label on the screw terminal block. Use a two-core twisted pair shielded cable with a minimum core diameter of 0.9mm. Connect the shield wire to a proper frame ground (FG). Ten COM (CNO) terminals are connected together

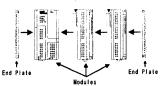
When using voltage output (with the rotary switch set to 0)



When using current output onnector (with the rotary switch set to 4)

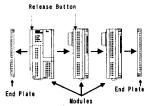
Assembling and Disassembling Modules Assembling Modules

Place the expansion connectors of two modules together and press the modules together until the fatch clicks to combine the modules securely. Improper connection 6.0 8.0 7.0 8.0 between module still cause malfunction or damage when power is turned on. Attach end plates to both sides of the module row.



Disassembling Modules

Keep the blue release button on top of the module depressed to disengage the latch, and pull the modules apart.

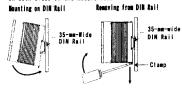


For details about assembling and disassembling modules, see the OpenMet Controller user's manual.

Note: Turn power off to the OpenNet Controller before assembling or disassembling, otherwise modules may be damaged.

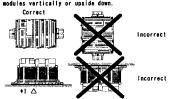
Mounting Modules

For details about mounting and removing modules, see the OpenMet Controller user's manual. Use the 35-mm-wide DIN rail for mounting the modules, and secure the modules using the BNLS mounting clips on both sides of the module row.



Mounting Direction

Mount the OpenNet Controller modules horizontally on a vertical plane as shown below. Do not mount the modules vertically or upside down.



* 1 : When the ambient temperature is 40℃ or below, the modules can also be mounted upright.

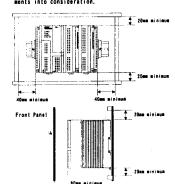
Dimensions (mm) 8.5 55.0 35.0 35.0 8.5 100.0 9.0 H in 5. 0 (8. 0) + 3

*2; Dimension when using the reco

*3: Dimension when the latch is pulled out *4: Dimension when using the recommended DIN rail (BAA1000).

Installation in Control Panel

When installing the OpenNet Controller modules in a control panel, take the convenience of operation and maintenance, and resistance against environ-ments into consideration.



Applicable Ferrule Dimensions (mm)

To crimp the ferrules shown below, use special crimping tool (CRIMPFOX UD6).

(A1-TWIN 2×1-8 RD)

() indicates the Type No. of Phoenix Contact.

Recommended Screwdriver

When wiring the terminal block, use the recommended screwdriver.

(Phoenix Contact's Type No.: SZSO, 6x3, 5)

△ Safety Precautions

Special expertise is required to use the OpenNet Controller.

- ●Read this instruction sheet and the user's manual to make sure of correct operation before starting installation, wiring, operation, maintenance, and inspection of the OpenNet Controller. Keep this instruction sheet at the
- maintenance, and inspection of the Uppennet Controller. Keep this instruction sheet at the and user.

 All OpenNet Controller modules are manufactured under IDEC's rigorous quality control system, but users must add a backup or failsafe provision to the control system using the OpenNet Controller in applications where heavy damage or personal injury may be caused in case the OpenNet Controller should fail.

 Install the OpenNet Controller according to instructions described in this instruction sheet and the user's manual. Improper installation will result in failing, failure, or malfunction of the OpenNet Controller.

 Make sure that the operating conditions are as described in the user's manual. If you are uncertain about the specifications, contact IDEC in advance.

 In this instruction sheet, safety precautions are categorized in order of importance to Marning and Caution:

Warning notices are used to emphasize that improper operation may cause severe personel injury or death.

Caution notices are used where inattention might cause personal injury or damage to equipment.

∧Warning

- Turn power off to the OpenNet Controller before starting installation, removal, wiring, maintenance, and inspection on the OpenNet Controller. Failure to turn power off may cause electrical shocks or fire hazard.

 Emergency stop and interlocking circuits must be configured outside the OpenNet Controller. If such a circuit is configured inside the OpenNet Controller, failure of the OpenNet Controller, failure of the OpenNet Controller may cause disorder of the control system, damage, or accidents. accidents.

△Caution

●The OpenNet Controller is designed for installation in equipment. Do not install the OpenNet Controller outside equipment.

installation in equipment. Do not install the OpenMet Controller outside equipment.

Install the OpenMet Controller in environments of eacribed in the user's manual. If the OpenMet Controller is used in places where the OpenMet Controller is subjected to high-temperature, high-hussidity, condensation, corrosive gass, excessive vibrations, and excessive shocks, then electrical shocks, fire hazard, or malfunction will result.

The environment for using the OpenMet Controller is Pollution degree 2. The pollution degree 2 defines 'Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by the occasionally a temporary conductivity caused by occasional and the o