INSTRUCTION MANUAL

NPN TRANSISTOR OUTPUT EXTENSION MODULE, 8 points (Ethernet Modbus/TCP)

MODEL R7E-EC8A

BEFORE USE

Thank you for choosing M-System. Before use, please check contents of the package you received as outlined below. If you have any problems or questions with the product, please contact M-System's Sales Office or representatives.

■ PACKAGE INCLUDES:

Discrete output extension module.....(1)

MODEL NO.

Confirm that the model number described on the product is exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

POINTS OF CAUTION

■ CONFORMITY WITH EU DIRECTIVES

• The actual installation environments such as panel configurations, connected devices and connected wires may affect the protection level of this unit when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures to ensure CE conformity.

■ POWER INPUT RATING & OPERATIONAL RANGE

• Locate the power input rating marked on the product and confirm its operational range as indicated below: 24V DC rating: 24V ±10%, approx. 10mA

■ GENERAL PRECAUTIONS

• Before you remove the unit or mount it, turn off the power supply and output signal for safety.

■ ENVIRONMENT

- Indoor use.
- When heavy dust or metal particles are present in the air, install the unit inside proper housing with sufficient ventilation.
- Do not install the unit where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- \bullet Environmental temperature must be within -10 to +55°C (14 to 131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.

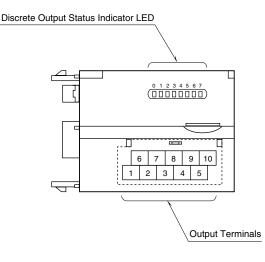
■ WIRING

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

■ AND

• The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

COMPONENT IDENTIFICATION



■ DISCRETE OUTPUT STATUS INDICATOR LED

Discrete output extension modules have LED indicators showing output signal status.

Contact ON: LED ON Contact OFF: LED OFF

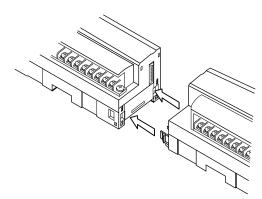
■ OUTPUT TERMINAL ASSIGNMENT

	6 +2	4V	7 Y	1	8 Y	3	9 Y	5	10 Y	7
0	v	2 Y	0	3 Y	2	4 Y	4	5 Y	6	

NO.	NO. ID FUNCTION		NO.	ID	FUNCTION
1	0V	0V (common)	6	+24V	24V DC
2	Y0	Output 0	7	Y1	Output 1
3	Y2	Output 2	8	Y3	Output 3
4	Y4	Output 4	9	Y5	Output 5
5	Y6	Output 6	10	Y7	Output 7

CONNECTING THE EXTENSION MODULE

- 1) Remove the extension connector cover located at the side of the basic module.
- 2) Connect the extension module.

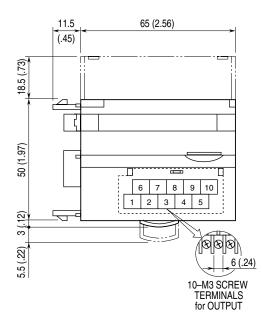


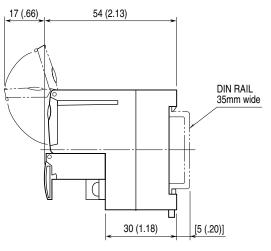
3) Mount the combined module on a DIN rail.

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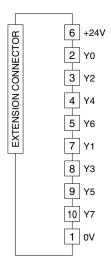
EXTERNAL DIMENSIONS unit: mm (inch)



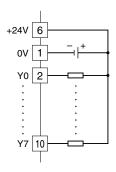


CONNECTION DIAGRAM

Connect the unit as in the diagram below.



■ Output Connection Example



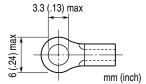
WIRING INSTRUCTIONS

SCREW TERMINAL

Torque: $0.5 \text{ N} \cdot \text{m}$

SOLDERLESS TERMINAL mm (inch)

Refer to the drawing below for recommended ring tongue terminal size. Spade tongue type is also applicable. Solder-less terminals with insulation sleeve do not fit. Applicable wire size: 0.25 to 1.65 mm² (AWG 22 to 16) Recommended manufacturer: Japan Solderless Terminal MFG.Co.Ltd, Nichifu Co.,ltd



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