PNP TRANSISTOR OUTPUT EXTENSION MODULE, 8 points
(MECHATROLINK-I / -II)

MODEL R7ML-EC8B

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 Model No. marking on the product to be 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

■ 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 input 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.
• Environmental temperature must be within 0 to 55°C (32 to 131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.
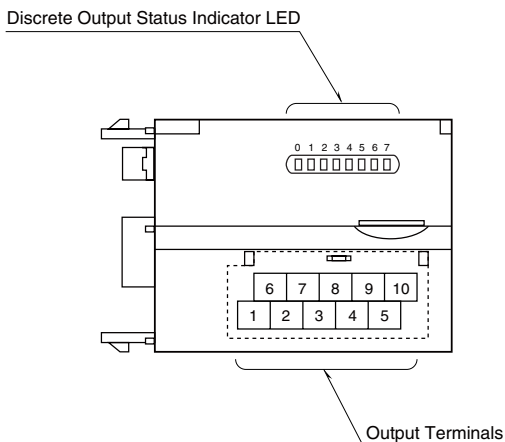
■ WIRING

• 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

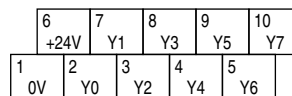Discrete Output Status Indicator LED

Output Terminals

■ DISCRETE OUTPUT STATUS INDICATOR LED

Discrete output modules including those for extensions have LED indicators showing output signal status.
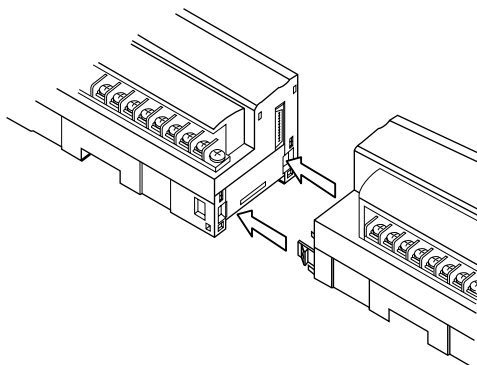
Contact ON : LED ON
Contact OFF : LED OFF

■ OUTPUT TERMINAL ASSIGNMENT

6 +24V	7 Y1	8 Y3	9 Y5	10 Y7
1 0V	2 Y0	3 Y2	4 Y4	5 Y6

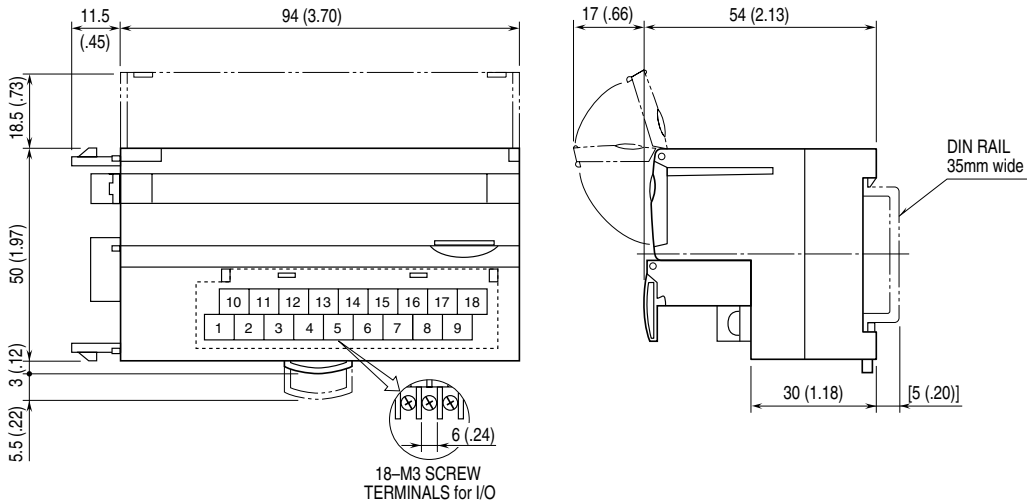| NO.	ID	FUNCTION	NO.	ID	FUNTION
1	0V	0V	6	+24V	24V DC (common)
2	Y0	Output 0	7	Y1	Output 1
3	Y2	Output 2	8	Y3	Output 3
4	Y4	Output 4	9	Y5	Output 5
5	Y6	Output 6	10	Y7	Output 7

CONNECTING THE EXTENSION MODULE

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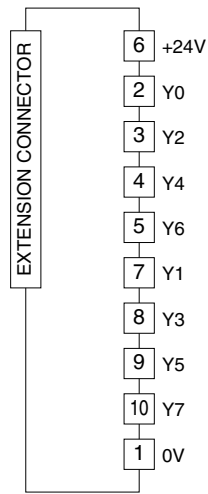2) Connect the extension module.

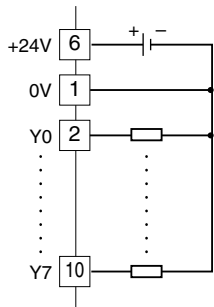3) Mount the combined module on a DIN rail.

▥ M·SYSTEM CO.,LTD,

EXTERNAL DIMENSIONS unit: mm (inch)

18–M3 SCREW TERMINALS for I/O

DIN RAIL 35mm wide

CONNECTION DIAGRAM

Connect the unit as in the diagram below.

EXTENSION CONNECTOR

6	+24V
2	Y0
3	Y2
4	Y4
5	Y6
7	Y1
8	Y3
9	Y5
10	Y7
1	0V

■ Output Connection Example
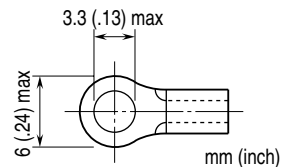

WIRING INSTRUCTIONS

■ SCREW TERMINAL

Torque: 0.5 N·m

■ SOLDERLESS TERMINAL mm (inch)

Refer to the drawing below for recommended ring tongue terminal size. Spade tongue type is also applicable. Solderless terminal:

Applicable wire size: 0.25 to 1.65 mm^2 (AWG 22 to 16)

Recommended manufacturer: Japan Solderless Terminal MFG. Co., Ltd, Nichifu Co., Ltd

3.3 (.13) max

6 (.24) max

mm (inch)

I/O DATA DESCRIPTION

■ DISCRETE OUTPUT

15   0

Output 0
Output 1
Output 2
Output 3
Output 7
Unused
Unused

0:OFF   1:ON