

<p><b>POWER SUPPLY MODULE</b> (single slot, continuous output current 750 mA)</p>	<p>MODEL <b>R3-PS1</b></p>
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**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:**

Power supply 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**

**■ CONFORMITY WITH EU DIRECTIVES**

- The equipment must be mounted inside the instrument panel of a metal enclosure.
- The actual installation environments such as panel configurations, connected devices, 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 the CE conformity.

**■ POWER INPUT RATING & OPERATIONAL RANGE**

- Locate the power input rating marked on the product and confirm its operational range as indicated below:  
 85 – 132V AC rating: 85 – 132V, 47 – 66 Hz, approx. 45VA  
 170 – 264V AC rating: 170 – 264V, 47 – 66 Hz, approx. 45VA  
 24V DC rating: 24V ±10%, approx. 29W or 1.2A at 24V  
 110V DC rating: 85 – 150V, approx. 29W or 270mA at 110V

**■ GENERAL PRECAUTIONS**

- Before you remove the unit from its base or mount it, turn off the power supply 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 -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.

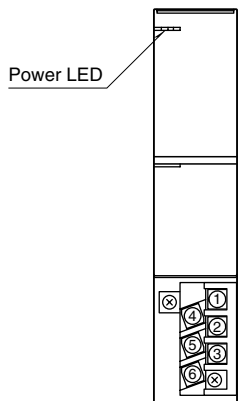
**INSTALLATION**

Use the Installation Base (model: R3-BSx). For heat dissipation, install the power supply module into the rightmost slot or leftmost slot. For redundant power system, install two modules in series into the rightmost slot or leftmost slot. If there is no problem, the rightmost slot is recommended.

In case of redundant power system use, be sure to install two same current capacity power supply modules (model: R3-PS1) in series. The combination of different current capacity power supply module or interface module with power supply is not available.

**COMPONENT IDENTIFICATION**

**■ FRONT VIEW**

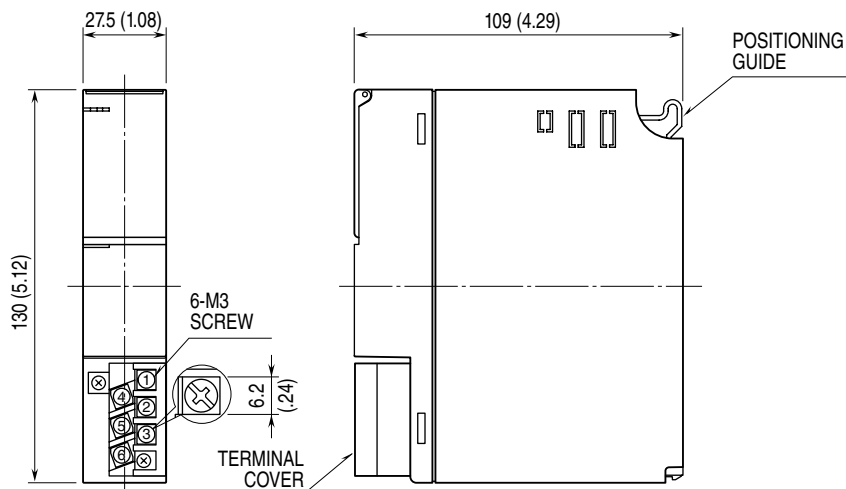


**Power LED:** Green LED turns on when the power is supplied.

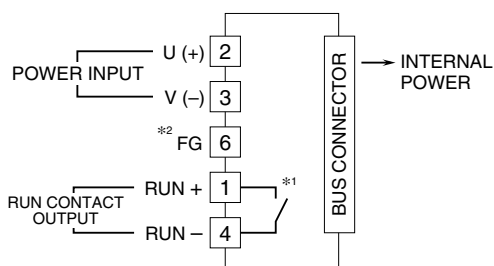
## TERMINAL CONNECTIONS

Connect the unit as in the diagram below.

### EXTERNAL DIMENSIONS unit: mm (inch)



### CONNECTION DIAGRAM



\*1. RUN contact is available with Ver.1.01 or higher versions.

\*2. In order to improve EMC performance, bond the FG terminal to the ground.

Caution: This terminal is NOT a protective conductor terminal.

## WIRING INSTRUCTIONS

### SCREW TERMINAL

Torque: 0.5 N·m

### SOLDERLESS TERMINAL

Refer to the drawing below for recommended ring tongue terminal size. Spade tongue type is also applicable. Solderless terminals with insulation sleeve do not fit.

Applicable wire size: 0.75 – 1.25 mm<sup>2</sup>

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

