

POWER SUPPLY MODULE
(double slot, continuous output current 2.0 A)

MODEL **R3-PS3**

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

- This equipment is suitable for Pollution Degree 2, Measurement category II (RUN contact output, transient voltage 2500V) and Installation Category II (transient voltage 2500V). Reinforced insulation (internal power to power input: 300V) and basic insulation (internal power to RUN contact output: 300V) are maintained. Prior to installation, check that the insulation class of this unit satisfies the system requirements.
- Altitude up to 2000 meters.
- The equipment must be mounted inside the instrument panel of a metal enclosure.
- The equipment must be installed such that appropriate clearance and creepage distances are maintained to conform to CE requirements. Failure to observe these requirements may invalidate the CE conformance.
- 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. 100VA
 100 – 120V AC rating: 85 – 132V, 47 – 66 Hz, approx. 100VA
 170 – 264V AC rating: 170 – 264V, 47 – 66 Hz, approx. 100VA
 200 – 270V AC rating: 170 – 264V, 47 – 66 Hz, approx. 100VA
 24V DC rating: 24V ±10%, approx. 50W or 2.0A at 24V
 110V DC rating: 85 – 150V, approx. 50W or 440mA 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

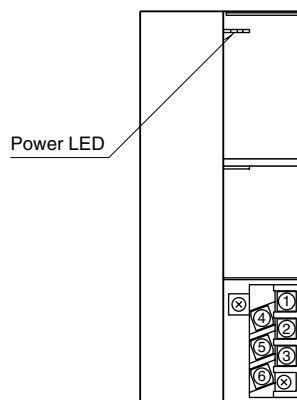
- The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

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-PS3) in series. The combination of different current capacity power supply module or interface module with power supply is not available.

COMPONENT IDENTIFICATION

■ FRONT VIEW



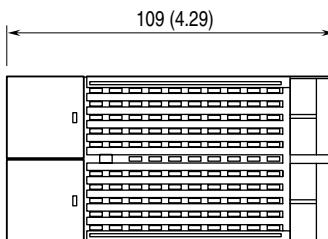
Power LED: Green LED turns on when the power is supplied.

TERMINAL CONNECTIONS

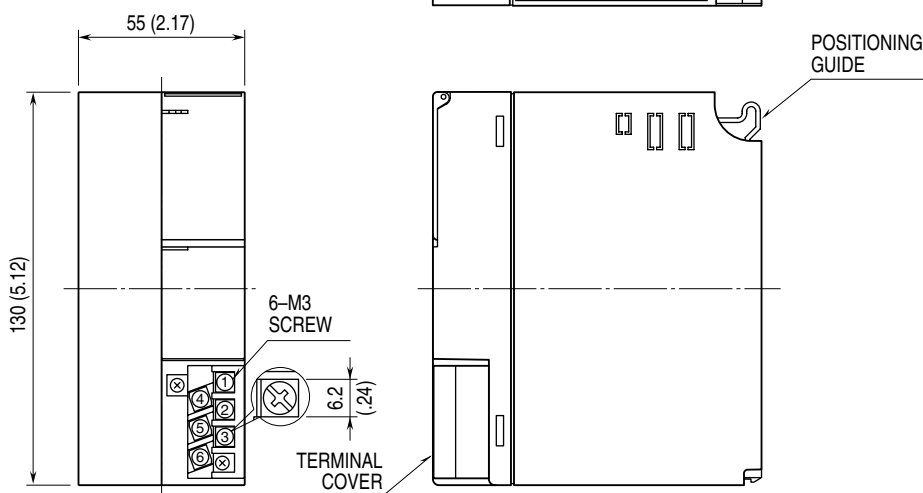
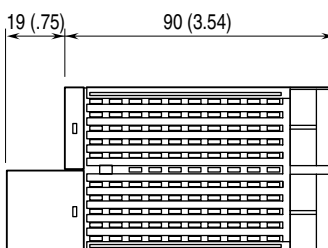
Connect the unit as in the diagram below.

EXTERNAL DIMENSIONS unit: mm (inch)

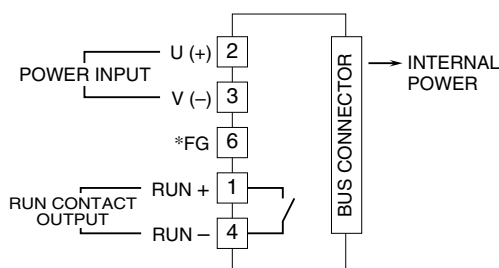
STANDARD TYPE



OPTION /B



CONNECTION DIAGRAM



*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 mm²

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

