

POWER SUPPLY MODULE
(dual redundant)

MODEL **M6SPS2**

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 a panel.
- 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.
- Install lightning surge protectors for those wires connected to remote locations.

■ 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: 22 – 27V, 2A

■ 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 -20 to +55°C (-4 to +131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.

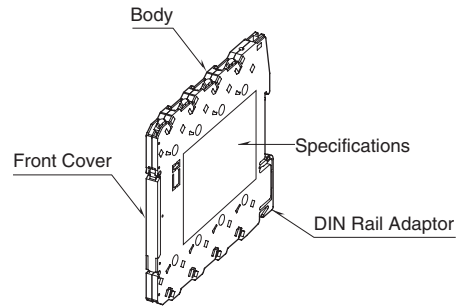
■ WIRING

- 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.

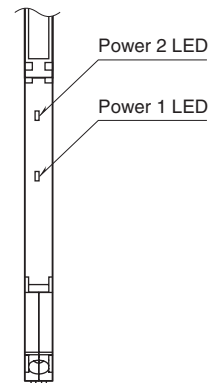
■ AND

- 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



■ FRONT VIEW (with the cover open)



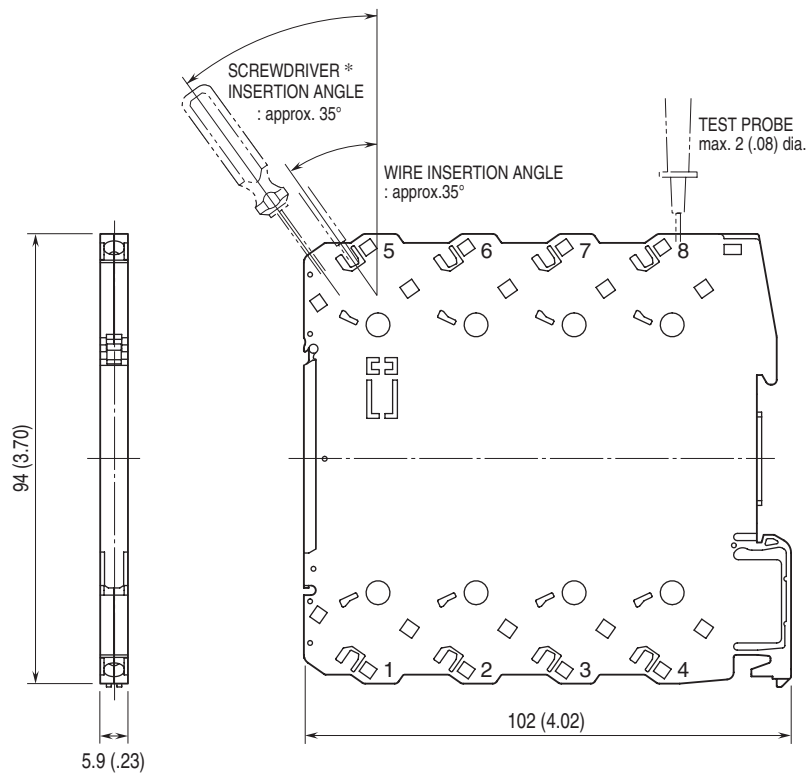
INSTALLATION

Installation Base (model: M6SBS) is required. Refer to the Installation Base instruction manual for the mounting procedure.

TERMINAL CONNECTIONS

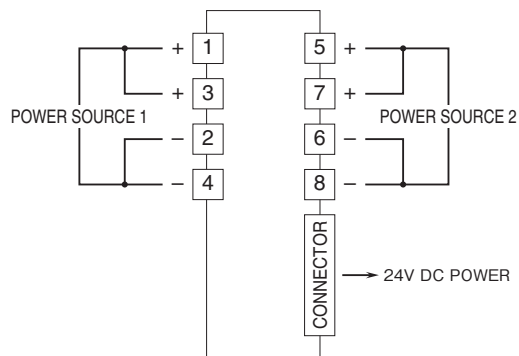
Connect the unit as in the diagram below or refer to the connection diagram on the side of the unit.

EXTERNAL DIMENSIONS unit: mm (inch)



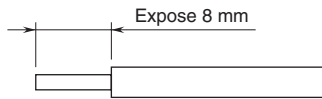
*Use a minus screwdriver: tip width 3.8 mm max., tip thickness 0.5 to 0.6 mm

CONNECTION DIAGRAM

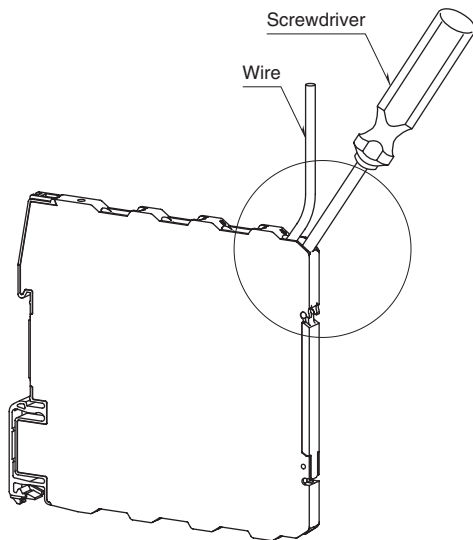


■ WIRING INSTRUCTIONS

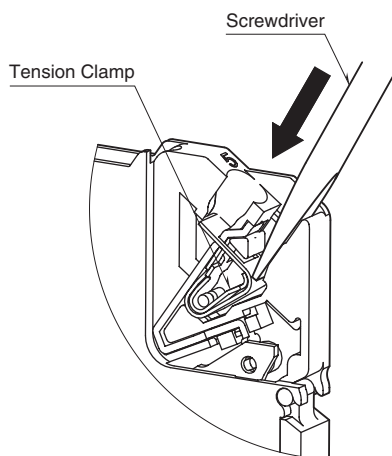
- Applicable wire size
 - Solid: 0.2 to 2.5 mm² (0.55 to 1.75 dia.)
 - Stranded: 0.2 to 2.5 mm² (Tinning wire ends may cause contact failure and therefore is not recommended.)
 - Ferruled: 0.2 to 1.5 mm² (0.55 to 1.35 dia.)
- Expose wire conductors by 8 mm (0.31").



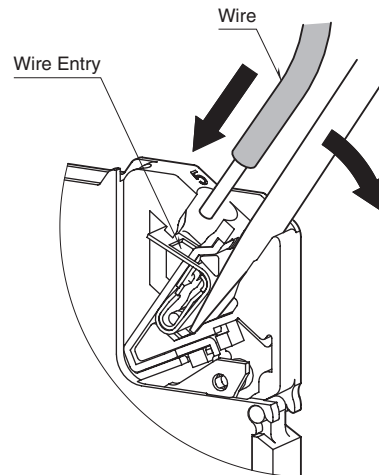
• How to Connect Wires



- 1) Insert a minus screwdriver into the wire entry opening, between the clamp and the housing, until its tip hits the bottom where it is firmly held.

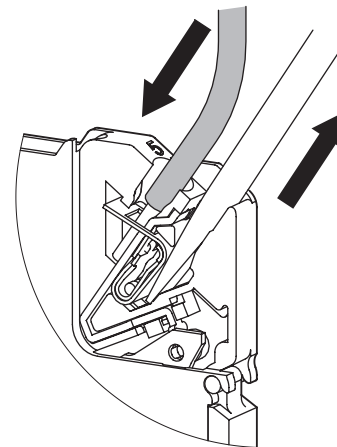


- 2) Insert a wire. Push the screwdriver toward the direction indicated with the arrow in the figure below to widen the opening if necessary.



- 3) Confirm that the wire tip hits the bottom and pull out the screwdriver in holding it in position.

Confirm that the wire's insulation tube is not caught in the clamp.



CHECKING

- 1) Terminal wiring: Check that all cables are correctly connected according to the connection diagram.
- 2) Confirm that the wire insulation tubes are not caught in the clamp.
- 3) Power input voltage: Check voltage across the terminal 7 – 8 with a multimeter.

LIGHTNING SURGE PROTECTION

M-System offers a series of lightning surge protector for protection against induced lightning surges. Please contact M-System to choose appropriate models.