Panasonic[®] **FP I/O Terminal Board**

Installation Instructions

MJEC-FPIOTB No.0074-44V

Read these instructions carefully and carry out the installation in the prescribed manner. After installation, keep it in a safe place for reference when required.

■Safety Precautions

↑ WARNING -

- Always take precautions to ensure the overall safety of your system, so that the whole system remains safe in the event of failure of this product or other external factor.
- Do not use this product in areas with inflammable gas. It could lead to an explosion.
- Exposing this product to excessive heat or open flames could lead to damage to the lithium battery or other electronic parts.

- To prevent excessive exothermic heat or smoke generation, use this product at the values less than the maximum of the characteristics and performance that are assured in these specifications.
- Do not dismantle or remodel the product. It could lead to excessive exothermic heat or smoke generation.
- Do not touch the terminal while turning on electricity. It could lead to an electric shock.
- Use the external devices to function the emergency stop and interlock circuit.
- Connect the wires or connectors securely. The loose connection could lead to excessive exothermic heat or smoke generation.
- This product has been developed / produced for industrial use only.

Before using the unit

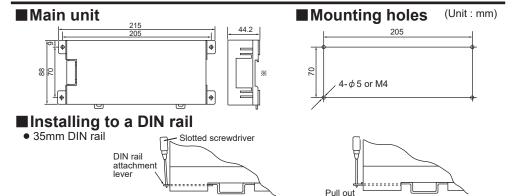
Operating environment

- Ambient temperature : 0 to + 55 °C
- Ambient humidity: 30 to 85 % RH (at 25°C, no condensation)
- Places without excessive dust, oil mist, conductive dust, and any inflammable and corrosive gases.
- Pollution Degree 2
- Places unexposed to water, oil and chemicals.
- Places without excessive vibration or shock.
- Places away from high voltage cables (equipment), power transmission lines (equipment), radio transmitters, equipment that would generate high switching surge and the top of equipment with high calorific power. (Distance: At least 100 mm)

Proper handling

- Do not touch connector pins directly to prevent static electricity from causing damage.
- Always rid yourself of any static electricity before handling this product.

Part names and dimensions



Recommended transmission cables

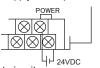
Cable	Max. transmission distance Total length	Sample appropriate cable
Shielded	700 m	Hitachi Cable,Ltd. KPEV-S1P × 1.25SQ / Belden 9860
twisted pair	600 m	Hitachi Cable,Ltd. KPEV-S1P × 0.5SQ / Belden 9207
VCTF	400 m	VCTF 0.75mm ² × 2C (JIS)

- As polyvinyl chloride has lower electrical characteristics than polyethylene, the max. transmission distance is shorter.
- Use shielded twisted pair cables.
- Use only one type of transmission cable. Do not mix more than 1 type.
- Twisted pair cables are recommended in noisy environments.

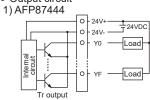
Wiring

■ Connecting diagrams of power supply and I/O terminals

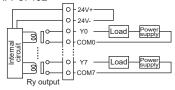
- Power supply circuit (common to AFP87444 and 87432)
 Input circuit (common to AFP87444 and 87432)



Output circuit

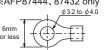


2) AFP87432



■ Terminals

1)Power supply and I/O terminal (M3) *AFP87444, 87432 only



- 2)Transmission line terminal (M3.5) Suitable crimp terminals are bare round type terminals, bare round type terminals with insulating papar and fork type terminals.
 - Securely fastern the terminals applying a tightening torque of 0.5 to 0.6 N m.

■Connecting diagram of transmission line

- For the transmission cables, connect the (+) and (+) sides, and (-) and (-) sides.
- The wiring of the transmission cable should extend from one unit to the next. Do not run two wires from a single unit to two other units.
- For the details of recommended cables, terminator settings. refer to MEWNET-F Manual.
- When using the shielded transmission cable, ground one end of the shield.

another unit another unit FG is a transmission cable

Moreover, when using the FP2 series, in addition to this instructions, familiarize yourself with the manual right.

Manual Programmable Controller MEWNET-F (Remote I/O System) Manual

Panasonic Corporation

Panasonic Industrial Devices SUNX Co., Ltd. https://panasonic.net/id/pidsx/global

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