



Programmable Controller MELSEC iQ-F

Side A JAPANESE Side B ENGLISH

MELSEC iQ-F FX5-4DA

Hardware Manual



Table with Manual Number, Revision, and Date

This manual describes the part names, dimensions, installation, and specifications of the product.

Effective April 2022 Specifications are subject to change without notice.

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Safety Precautions

This manual classifies the safety precautions into two categories:

WARNING and CAUTION

Table explaining WARNING and CAUTION symbols

Depending on the circumstances, procedures indicated by CAUTION may also cause severe injury.

It is important to follow all precautions for personal safety.

Associated Manual

Table listing associated manuals for MELSEC iQ-F FX5 modules

How to obtain manuals For the necessary product manuals or documents, consult with your local Mitsubishi Electric representative.

Applicable standards

FX5-4DA complies with the EC Directive (EMC Directive), UL standards (UL, cUL) and UKCA marking.

MELSEC iQ-F FX5 User's Manual (Analog Control - Intelligent function module) Regarding the standards that relate to the CPU module, please refer to either the product catalog or consult with your local Mitsubishi Electric representative.

Attention This product is designed for use in industrial applications.

1. Outline

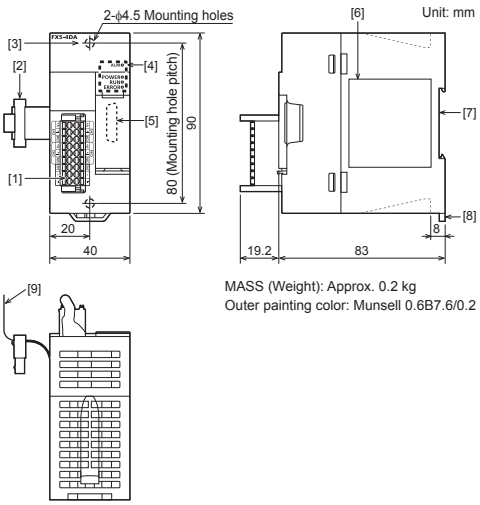
FX5-4DA analog output module (hereinafter called FX5-4DA) can convert 4 points of digital values into analog output values (voltage output and current output).

1.1 Incorporated Items

Check that the following product and items are included in the package:

Table listing Product and Included Items

1.2 External Dimensions, Part Names

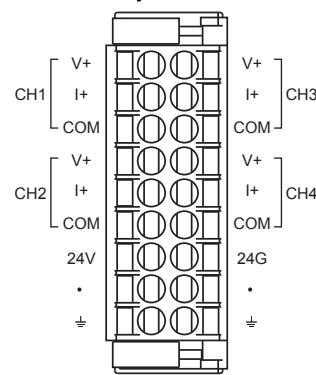


- List of numbered parts: (1) Terminal block, (2) Extension cable, (3) Mounting holes, (4) LEDs, (5) Connector, (6) Name plate, (7) DIN rail groove, (8) DIN rail hook, (9) Pullout tab

1.3 Indications of LEDs

LED indication table with columns for LED display, LED color, Status, and Indication

1.4 Terminal Layout



For further information on terminal, refer to the following manual. MELSEC iQ-F FX5 User's Manual (Analog Control - Intelligent function module)

2. Installation

Installation PRECAUTIONS WARNING section with safety instructions

INSTALLATION PRECAUTIONS CAUTION section with additional safety instructions

For further information on mounting, refer to the following manual. MELSEC iQ-F FX5S/FX5UJ/FX5U/FX5UC User's Manual (Hardware)

3. Wiring

WIRING PRECAUTIONS WARNING section

WIRING PRECAUTIONS CAUTION section

3.1 Applicable Cable

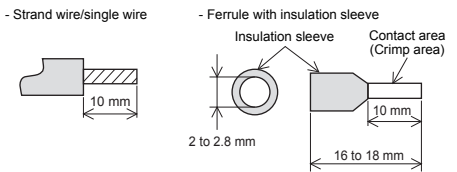
3.1.1 Spring clamp terminal block

1) Suitable wiring

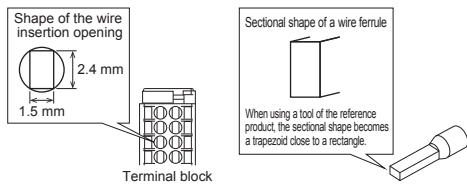
Table mapping wire size to temperature rating

2) Wire end treatment

Strip the cable about 10 mm from the tip to connect a wire ferrule at the stripped area.



Check the shape of the wire insertion opening with the following chart, and use the smaller wire ferrule than the described size.



The following table shows wire ferrules and its associated tools compatible with the terminal block.

Table listing wire ferrule manufacturers, models, wire sizes, and crimp tools

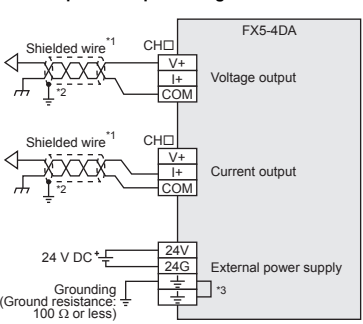
3) Connecting a cable

- When ferrules with insulation sleeve are used... When stranded wires and solid wires are used...

Table listing manufacturer and model name of flathead screwdriver

4) Disconnecting a cable Push the open/close button of the wire to be disconnected with a flathead screwdriver.

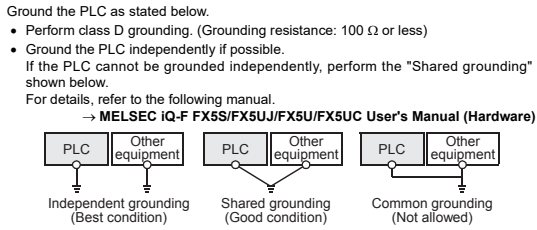
3.2 Example of Output Wiring



CH1: represents the channel number.

- \*1 Use 2-core shielded twisted pair cable... \*2 Ground the shielded wire at one point... \*3 +/- terminals are internally connected.

3.3 Grounding



- Bring the grounding point close to the PLC as much as possible so that the ground cable can be shortened.

4. Specification

DESIGN PRECAUTIONS WARNING section

DESIGN PRECAUTIONS CAUTION section

STARTUP AND MAINTENANCE PRECAUTIONS CAUTION section

DISPOSAL PRECAUTIONS CAUTION section

TRANSPORTATION PRECAUTIONS CAUTION section

Table for Applicable CPU module with columns for Model name and Applicability

\*1 FX5-CN-IFC or FX5-C1PS-5V is necessary to connect FX5-4DA to the FX5UC CPU module.

4.2 General Specifications

The items other than the following are equivalent to those of the CPU module.

Table with columns for Items and Specifications for General Specifications

4.3 Power Supply Specifications

Table with columns for Items and Specifications for Power Supply Specifications

4.4 Performance Specifications

Table with columns for Items and Specifications for Performance Specifications

4.5 Output specifications

Table with columns for Items and Specifications for Output specifications

\*1 For the output characteristic, refer to the following. MELSEC iQ-F FX5 User's Manual (Analog Control - Intelligent function module)

This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses.

Warranty Exclusion of loss in opportunity and secondary loss from warranty liability

For safe use

- This product has been manufactured as a general-purpose part for general industries... Before using the product for special purposes... This product has been manufactured under strict quality control.