



December 2016

Programmable Controller MFISE-F

FX3U-CNV-BD INSTALLATION MANUAL



This manual describes the part names, dimensions, mounting, and specifications of the product Before use read this manual and the manuals of all relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions. Store this manual in a safe place so that it can be taken out and read whenever necessary. Always forward it to the end user.

Registration

The company and product names described in this manual are registered trademarks or the trademarks of their respective companies

Effective December 2016

Specifications are subject to change without notice © 2005 Mitsubishi Electric Corporation

Safety Precautions (Read these precautions before use.)

This manual classifies the safety precautions into two categories: A WARNING and A CAUTION

Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

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

It is important to follow all precautions for personal safety

Associated Manuals

Manual name	Manual No.	Description		
FX3∪ Series User's Manual - Hardware Edition	JY997D16501 MODEL CODE: 09R516	Explains FX3U Series PLC specifications for I/O, wiring, installation, and maintenance.		
FX3UC Series User's Manual - Hardware Edition	JY997D28701 MODEL CODE: 09R519	Explains FX3UC Series PLC specifications for I/O, wiring, installation, and maintenance.		

How to obtain manuals

For product manuals or documents, consult with the Mitsubishi Electric dealer from who you purchased your product.

Applicable standards

FX3U-CNV-BD units made in June, 2005 or later comply with the EC Directive (EMC Directive). Further information can be found in the following manual. However, the FX3UC-32MT-LT does not comply with the EC Directive (EMC Directive)

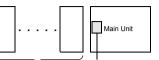
→ FX3U Series Hardware Manual (Manual No. JY997D50301) → FX3UC-32MT-LT-2 Hardware Manual (Manual No. JY997D31601)

Attention

This product is designed for use in industrial applications.

1. Outline

The FX3U-CNV-BD is an expansion board for connecting the analog and communication special adaptors to the main unit of a PLC.

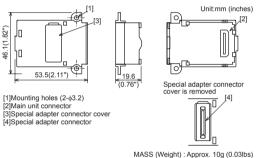


FX3U-CNV-BD Special adaptors: Max. 6 units (4 analog special adaptors + 2 special adaptors for communication)

1.1 Incorporated Items



1.2 External Dimensions and Part Names



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STALLATION RECAUTIONS		
Make sure to cut off	all phases of the power supply externally befo	re attempting

installation or wiring work. Failure to do so may cause electric shock or damage to the product.

INSTALLATION

PRECAUTIONS

- Use the product within the generic environment specifications described in PLC main unit manual (Hardware Edition).
- Never use the product in areas with excessive dust, oily smoke, conductive dusts corrosive gas (salt air, Cl2, H2S, SO2, or NO2), flammable gas, vibration or impacts, or expose it to high temperature, condensation, or rain and wind. If the product is used in such conditions, electric shock, fire, malfunctions
- deterioration or damage may occur Use screwdrivers carefully when performing installation work, thus avoiding
- accident or product damage

INSTALLATION RECAUTIONS

When drilling screw holes or wiring, make sure cutting or wire debris does no enter the ventilation slits.

- Failure to do so may cause fire, equipment failures or malfunctions. Do not touch the conductive parts of the product directly.
- Doing so may cause device failures or malfunctions. Connect expansion board securely to their designated connectors.
 - Loose connections may cause malfunctions

For the installation and removal, refer to the PLC main unit manual. → FX3∪ Series User's Manual - Hardware Edition

-> FX3UC Series User's Manual - Hardware Edition

3. Specification STARTUP AND

MAINTENANCE **ACAUTION** PRECAUTIONS

Do not disassemble or modify the PLC.

- Doing so may cause fire, equipment failures, or malfunctions.
- * For repair, contact your local Mitsubishi Electric representative.

Do not drop the product or exert strong impact to it. Doing so may cause damage

DISPOSAL PRECAUTIONS

Please contact a certified electronic waste disposal company for the environmentally safe recycling and disposal of your device

TRANSPORT AND **CAUTION** STORAGE PRECAUTIONS

The product is a precision instrument. During transportation, avoid impacts large than those specified in the general specifications by using dedicated packaging boxes and shock-absorbing palettes. Failure to do so may cause failures in the product. After transportation, verify operation of the product and check for damage of the mounting part, etc.

3.1 Applicable PLC

Model name	Applicability
FX3U Series PLC	Ver.2.20 or later (from first production)
FX3UC-32MT-LT	Ver.1.00 or later (from first production)
FX3UC-32MT-LT-2	Ver.2.53 or later (from first production)

• The expansion board cannot be connected to FX3UC Series PLCs other than the FX3UC-32MT-LT(-2),

· Only one expansion board can be used per main unit.

Additional expansion boards such as the FX3U-CNV-BD, FX3U-422-BD or FX3U-485-BD cannot be installed/used together with the FX3U-CNV-BD.

For details on the system configuration, refer to the following manual -> FX3U Series User's Manual - Hardware Edition → FX3UC Series User's Manual - Hardware Edition

3.2 General Specifications

The general specifications are equivalent to the PLC main unit. For general specifications, refer to the following manuals.

> → FX3U Series User's Manual - Hardware Edition → FX3UC Series User's Manual - Hardware Edition

「电器电子产品有害物质限制使用标识要求」的表示方式



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Note: This symbol mark is for China only.

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产品中有害物质的夕称及今量

部件名称		有害物质					
		铅 (Pb)	汞 (Hg)	镐 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴 二苯醚 (PBDE)
可编程 控制器	外壳	0	0	0	0	0	0
	印刷基板	×	0	0	0	0	0
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- 〇:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。
- ×:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/1 26572规定的限量要求。

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Exclusion of loss in opportunity and secondary loss from warranty liability Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to: (1) Damages caused by any cause found not to be the responsibility of Mitsubishi. (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products. (3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.

(4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks

/! For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However
- when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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