

Official Product Identity Mapping

FX3U-128MR/ES-A

The official Mitsubishi product record identifies the FX3U-128MR/ES main unit.

Mitsubishi hardware documentation represents the regional -A suffix as an approved variant.

The retained technical pages provide the 128-point relay-output configuration, dimensions and power budget.

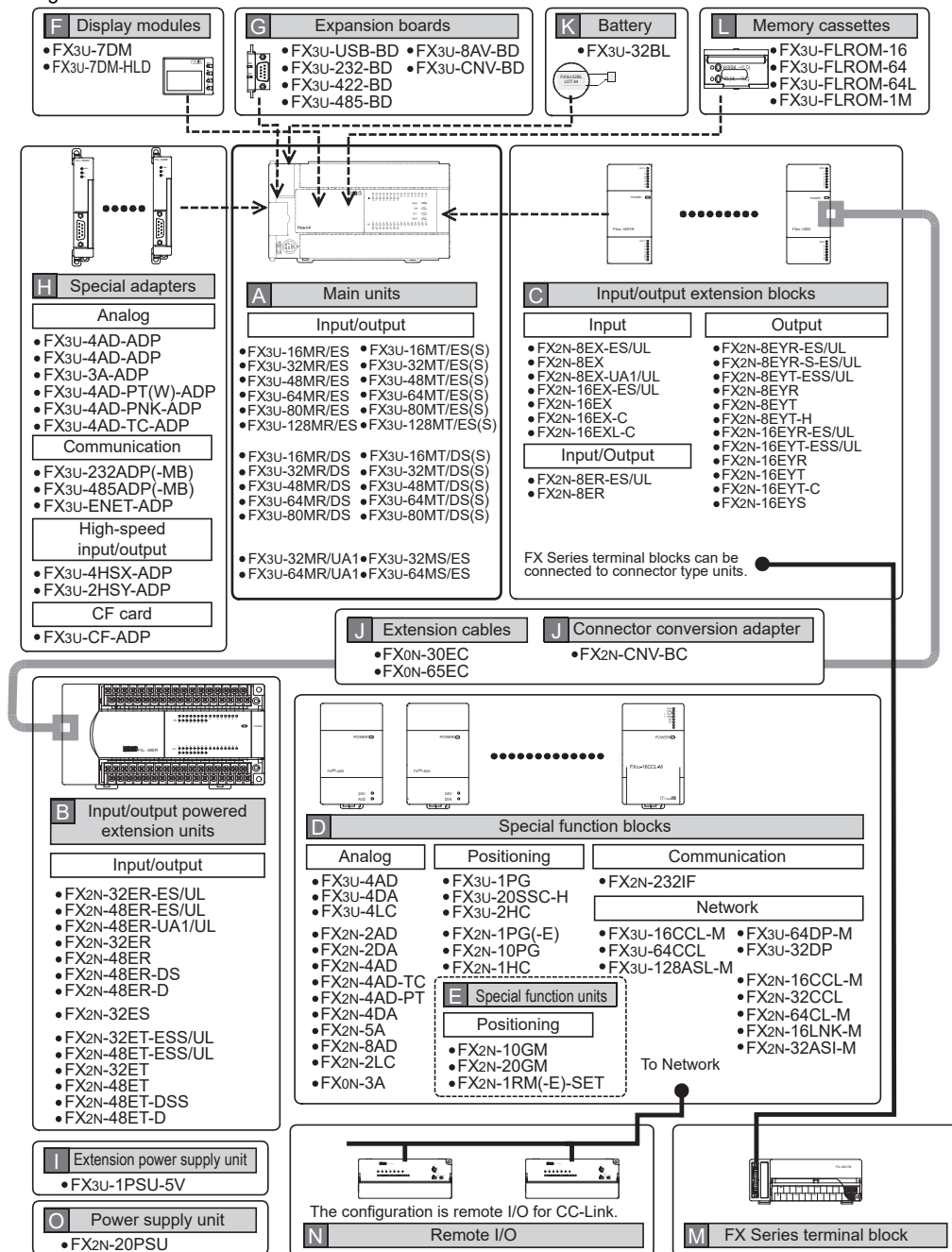
Official model page:

https://www.mitsubishielectric.com/fa/products/faspec/point.page?formNm=FX3U-_M-E-_FX3U-128MR%2FES_97&ki syu=%2Fplc_fx&lang=2

FX3U Series Programmable Controllers User's Manual - Hardware Edition

3 Introduction of Products (Compliant with Overseas Standards) 3.1 List of Products (to be Connected) and Interpretation of Model Names

The following system configuration is classified into product groups A to O in the product introduction sections given below.



1 Introduction

2 Features and Part Names

3 Product Introduction

4 Specifications

5 Version and Peripheral Devices

6 System Configuration

7 Input/Output Nos., Unit Nos.

8 Installation

9 Preparation and Power supply Wiring

10 Input Wiring

FX3U Series Programmable Controllers User's Manual - Hardware Edition

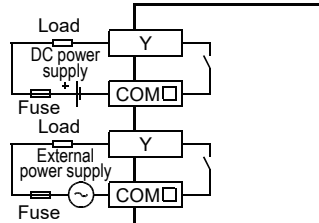
4 Specifications, External Dimensions and Terminal Layout (Main Units) 4.4 Output Specifications

4.4 Output Specifications

The main unit output specifications are explained below.

4.4.1 Relay output type

The output numbers in the table indicate the main unit terminal numbers. "Y010 or more" means the numbers from Y010 to the largest number that the main unit has.
(The output numbers of FX3U-16MR/ES are Y000 to Y007.)

Item		Relay output specifications					
		FX3U-16MR/□S	FX3U-32MR/□S	FX3U-48MR/□S	FX3U-64MR/□S	FX3U-80MR/□S	FX3U-128MR/ES
Number of output points		8 points	16 points	24 points	32 points	40 points	64 points
Connecting type		Fixed terminal block (M3 screw)	Removable terminal block (M3 screw)				
Output type		Relay					
External power supply		30V DC or less or 240V AC or less (250V AC or less when the unit does not comply with CE, UL or cUL standards)					
Max. load	Resistance load	2 A / point The total load current of resistance loads per common terminal should be the following value. → For details on the common terminal for each model, refer to the terminal block layout. • 1 output point/common terminal: 2 A or less • 4 output points/common terminal: 8 A or less • 8 output points/common terminal: 8 A or less					
	Inductive load	80 VA → For the product life, refer to Subsection 4.4.2. → For cautions on external wiring, refer to Subsection 12.2.4.					
Min. load		5V DC, 2 mA (reference value)					
Open circuit leakage current		—					
Response time	OFF→ON	Approx. 10 ms					
	ON→OFF	Approx. 10 ms					
Circuit insulation		Mechanical insulation					
Display of output operation		LED on panel lights when power is applied to relay coil.					
Output circuit configuration		 A number (1 or more) is entered in □ of [COM □].					

1

Introduction

2

Features and Part Names

3

Product Introduction

4

Specifications

5

Version and Peripheral Devices

6

System Configuration

7

Input/Output Nos., Unit Nos.

8

Installation

9

Preparation and Power Supply Wiring

10

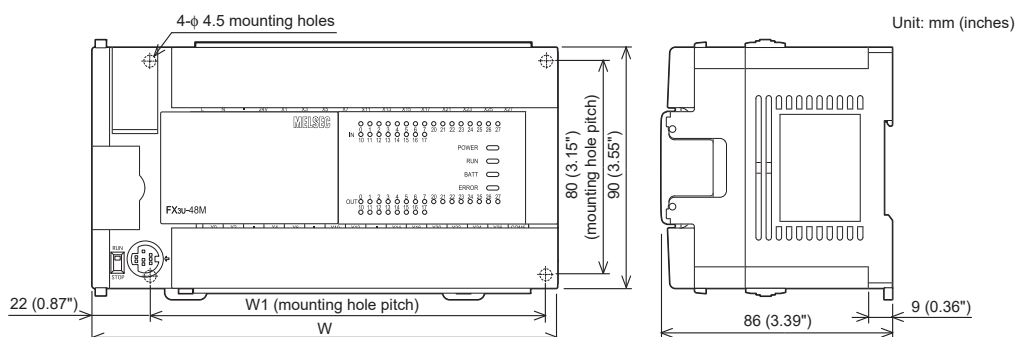
Input Wiring

FX3U Series Programmable Controllers
User's Manual - Hardware Edition

4 Specifications, External Dimensions and Terminal Layout (Main Units)

4.6 External Dimensions (Weight and Installation)

4.6.2 FX3U-48M□, FX3U-64M□, FX3U-80M□, FX3U-128M□



Series	Model name	W: mm (inches)	W1: mm (inches)	MASS (weight): kg (lbs)
FX3U-48M□	FX3U-48MR/ES	182 (7.17")	155 (6.11")	Approx. 0.85 (1.87lbs)
	FX3U-48MT/ES			
	FX3U-48MT/ESS			
	FX3U-48MR/DS			
	FX3U-48MT/DS			
	FX3U-48MT/DSS			
FX3U-64M□	FX3U-64MR/ES	220 (8.67")	193 (7.6")	Approx. 1.00 (2.2lbs)
	FX3U-64MT/ES			
	FX3U-64MT/ESS			
	FX3U-64MS/ES			
	FX3U-64MR/DS			
	FX3U-64MT/DS			
	FX3U-64MT/DSS			
FX3U-80M□	FX3U-64MR/UA1	285 (11.23")	258 (10.16")	Approx. 1.20 (2.64lbs)
	FX3U-80MR/ES	285 (11.23")	258 (10.16")	Approx. 1.20 (2.64lbs)
	FX3U-80MT/ES			
	FX3U-80MT/ESS			
	FX3U-80MR/DS			
	FX3U-80MT/DS			
FX3U-128M□	FX3U-80MT/DSS			
	FX3U-128MR/ES	350 (13.78")	323 (12.72")	Approx. 1.80 (3.96lbs)
	FX3U-128MT/ES			
	FX3U-128MT/ESS			

- 1) Accessories
 - Dust proof protection sheet
 - Manual supplied with product
- 2) Installation
 - 35 mm (1.38") wide DIN rail or Direct installation (with screws) (M4 x 4)

FX_{3U} Series Programmable Controllers

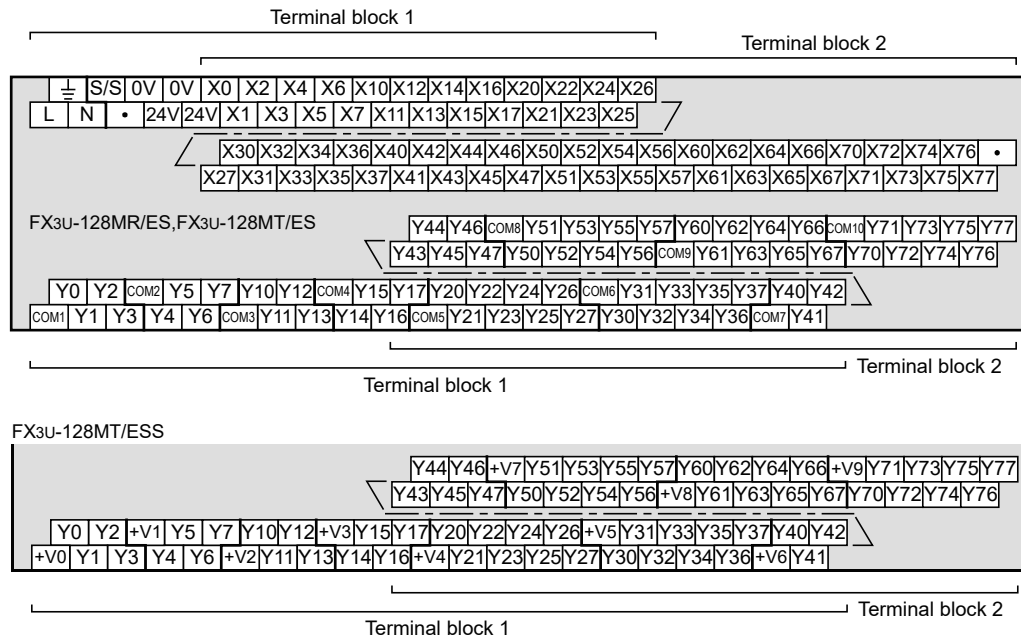
User's Manual - Hardware Edition

4 Specifications, External Dimensions and Terminal Layout (Main Units)

4.7 Terminal Layout

4.7.7 FX_{3U}-128M□

- AC power supply/DC input type



1

Introduction

2

Features and
Part Names

3

Product
Introduction

4

Specifications

5

Version and
Peripheral
Devices

6

System
Configuration

7

Input/Output
Nos., Unit Nos.

8

Installation

9

Preparation and
Power Supply
Wiring

10

Input Wiring

FX_{3U} Series Programmable Controllers
User's Manual - Hardware Edition

6 Examination of System Configuration
6.8 Number of Input/Output (Occupied) Points and Current Consumption

6.8.1 [A] Main units

A

No.	Type	Input/output		Output current (mA)	
		Number of input/output points [points]	Input/output [points]	5V DC power supply	24V DC service power supply
AC power supply/24V DC input/relay output type					
A1	FX3U-16MR/ES	16	8/8	500	400
	FX3U-32MR/ES	32	16/16		600
	FX3U-48MR/ES	48	24/24		
	FX3U-64MR/ES	64	32/32		
	FX3U-80MR/ES	80	40/40		
	FX3U-128MR/ES	128	64/64		
AC power supply/24V DC input/transistor output type					
A1	FX3U-16MT/ES	16	8/8	500	400
	FX3U-16MT/ESS	16	8/8		600
	FX3U-32MT/ES	32	16/16		
	FX3U-32MT/ESS	32	16/16		
	FX3U-48MT/ES	48	24/24		
	FX3U-48MT/ESS	48	24/24		
	FX3U-64MT/ES	64	32/32		
	FX3U-64MT/ESS	64	32/32		
	FX3U-80MT/ES	80	40/40		
	FX3U-80MT/ESS	80	40/40		
	FX3U-128MT/ES	128	64/64		
	FX3U-128MT/ESS	128	64/64		
AC power supply/24V DC input/triac output type					
A1	FX3U-32MS/ES	32	16/16	500	400
	FX3U-64MS/ES	64	32/32	600	

No.	Type	Input/output		Output current (mA)	
		Number of input/output points [points]	Input/output [points]	5V DC power supply	24V DC service power supply
AC power supply/100V AC input/relay output type					
A2	FX3U-32MR/UA1	32	16/16	500	400
	FX3U-64MR/UA1	64	32/32		600



GLOBAL INDUSTRIAL AUTOMATION SOURCING

Ready to source this part?

Ask for availability, pricing and delivery options.

Request a fast quote

Include the product title and any required part number or quantity.

EMAIL

info@apterpower.com

PHONE

+86 18106909650

[CHAT ON WHATSAPP >](#)



[SCAN TO CHAT ON WHATSAPP](#)

PRODUCT: FX3U-128MR/ES-A / 128-point FX3U PLC Main Unit

The enclosed manufacturer pages are reproduced without alteration to technical content.

Apter Power is not an authorized distributor, reseller or representative of the products featured.

Product names, trademarks, brands and logos remain the property of their respective owners.