

Options

FX Interfaces and Power Supplies

Interface Boards and Modules

The FX Series interface boards enable connection of special adapters to the left side of the associated FX main unit. The FX2NC-CNV-IF interface adapter allows FX3UC main units to connect with the standard FX0N / FX2N / FX3U right side expansion bus.

Model Number	FX3U-CF-ADP	FX3S-CNV-ADP	FX3G-CNV-ADP	FX3U-CNV-BD	FX2NC-CNV-IF
Stocked Item	S	S	S	S	S
Certification	CE (EMC)				
Applicable PLCs	FX3U / FX3UC	FX3S	FX3G	FX3U	FX3UC
Description	CF Card special adapter	Analog and communication special adapter	Analog and communication special adaptor	Analog and communication special adaptor	Interface adapter to connect with standard FX0N / FX2N / FX3U
Weight (kg)	0.3	0.1	0.1	0.01	0.3
Dimensions W x H x D (mm)	45 x 90 x 74	14.6 x 90 x 74	14.6 x 90 x 74	19.6 x 46.1 x 53.5	90 x 14.6 x 74

Power Supply Modules

The FX Series power supply units are used to add power onto the 5V and 24V expansion buses when the built-in service power supplies are not sufficient.

Model Number	FX3U-1PSU-5V	FX3UC-1PS-5V
Stocked Item	S	-
Certification	UL • cUL • CE (EMC)	
Applicable PLCs	FX3U / FX3G	FX3UC
Input Voltage	100 - 240VAC	24VDC +20% - 15%
Input Frequency	50 / 60 Hz	-
Inrush Current	30A max. 5 ms or less / 100VAC 65A max. 5 ms or less / 200VAC	30A max. 0.5 ms / 24VDC
Power Consumption	20 VA max.	25 W max.
Output Current (Internal for Supply)	24VDC 0.3A 5VDC 1A	- 1A
Holding Time	10 ms / 100VAC	5 ms
Weight (kg)	0.3	0.15
Dimensions W x H x D (mm)	55 x 90 x 87	24.2 x 90 x 74

Accessories

Backup Batteries

Backup batteries provide enough power to store relevant data within the FX main units and modules when they are not powered.

Model Number	FX3U-32BL
Stocked Item	S
Applicable PLCs	FX3U / FX3UC / FX3G / FX3GE

Memory Cassettes

The Loader functionality allows the memory cassette to upload and download programs from and to the internal memory of the FX main units. When the memory cassette is attached to the FX main unit without uploading or downloading, the program on the memory cassette is executed. With the FX3U-FLROM-1M, 1.3MB of additional capacity is provided for symbolic information.

Model Number	FX3U-FLROM-16	FX3U-FLROM-64	FX3U-FLROM-64L	FX3U-FLROM-1M	FX3G-EEPROM-32L
Stocked Item	S	S	S	S	S
Certification	CE (EMC)				
Applicable PLCs	FX3U / FX3UC				FX3G / FX3GE / FX3S
Size	16k steps	64k steps	64k steps	64k steps +1.3MB Symbolic	32k steps
Memory Type	Flash	Flash	Flash	Flash	EEPROM
Protect Switch	Provided	Provided	Provided	Provided	Provided
Data Transfer Buttons	Not Provided	Not Provided	Provided	Not Provided	Provided
Dimensions W x H x D (mm)	37 x 20 x 6.1	37 x 20 x 6.1	37 x 20 x 6.1	37 x 20 x 6.1	35 X 21 X 9.6

Interface Converter

Interface converter is necessary to bridge two different communication types.

Model Number	FX-USB-AW	FX-232AWC-H
Stocked Item	S	-
Certification	CE (EMC)	-
Applicable PLCs	FX3U / FX3UC / FX3G / FX3GE / FX3S	FX3U / FX3UC / FX3G / FX3GE / FX3S
Applications	USB to RS-422 converter	RS-422 to RS-232C converter
Dimensions (W x H x D) mm	14 x 20 x 63	25 x 80 x 60

Terminal Blocks

Remote terminal blocks allow I/O modules to be placed at the point of control. The blocks are connected with FX3UC main units using connector-type I/O cabling.

Model Number	FX-16E-TB	FX-16E-TB/UL	FX-16EX-A1-TB	FX-16EX-A1-TB/UL	FX-16EYR-ES-TB/UL
Stocked Item	-	S	-	-	S
Certification	-	UL • cUL	-	-	UL • cUL
Applicable PLCs	FX3UC				
Max. Number of Inputs/Outputs	16	16	16	16	16 output
Integrated Inputs (Sink)	16 (24VDC)	16 (24VDC)	16 (120VAC)	16 (120VAC)	-
Integrated Outputs	-	-	-	-	16
Output Type	-	-	-	-	Relay
Switching Voltage (Max.)	-	-	-	-	240VAC / 30VDC
Max. Output Current	Per Output (A) -	-	-	-	2
	Per 4 Outputs (A) -	-	-	-	8
Dimensions (W x H x D) mm	150 x 55 x 45				

Model Number	FX-16EYS-ES-TB/UL	FX-16EYT-TB	FX-16EYT-ES-TB/UL	FX-16EYT-ESS-TB/UL	FX-32E-TB/UL	FX-TB40MIN
Stocked Item	-	-	-	-	-	S
Certification	UL • cUL	-	UL • cUL	-	-	-
Applicable PLCs	FX3UC					FX3U-2HC
Max. Number of Inputs/Outputs	16 output	16	16 output	16 output	32	40
Integrated Inputs (Sink)	-	-	-	-	32 (24VDC)	-
Integrated Outputs	16	16	16	16	-	-
Output Type	Triac (SSR)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	-	-
Switching Voltage (Max.)	242VAC	30VDC	30VDC	30VDC	-	-
Max. Output Current	Per Output (A) 0.3	0.5	0.5	0.5	-	-
	Per 4 Outputs (A) 0.8	0.8	0.8	0.8	-	-
Dimensions (W x H x D) mm	150 x 55 x 45					80 x 87 x 76

Hand-Held Programmer

A small, industrial programming and maintenance tool for the FX Series. This unit can perform program uploads/downloads and store up to 15 programs in its internal memory. Keywords can be registered, deleted or canceled in applicable PLCs. Program monitoring and data device adjustment functionality is also available. To stay up to date the latest firmware can be downloaded on a PC then installed via the USB port. PLC programs on the PC can also be transferred via USB, eliminating the need for peripheral devices.

Model Number	FX-30P
Stocked Item	S
Certification	UL • cUL • CE
Applicable PLCs	FX3U / FX3UC / FX3G / FX3GE / FX3S
Power Supply	5VDC / 155mA
Display / Characters	LED / 21 x 8 characters

Display Modules

Display modules are attached to the front face of the main unit and enable monitoring and adjustment of PLC data services.

Model Number	FX3G-5DM	FX3U-7DM	FX3U-7DM-HLD	FX3S-5DM
Stocked Item	S	S	S	S
Certification	CE (EMC)	CE (EMC)	-	CE (EMC)
Applicable PLCs	FX3G	FX3U	FX3U	FX3S
Display	LCD (with backlight)	LCD (with backlight)	-	LCD (with backlight)
Resolution	16 characters x 4 lines	16 characters x 4 lines	-	-
Power Supply (From Main Unit)	-	5VDC / 20 mA	-	-
Extension Cable	-	-	Included	-
Weight (kg)	0.02	0.02	0.01	0.02
Dimensions W x H x D (mm)	49.4 X 39.4 X12	48 x 35 x 11.5	66.3 x 41.8 x 13	35 x 34.4 x 12

Connection Cables

The cables listed in the following tables are used for FX Series PLC programming, positioning applications block connections and interface conversion.

Model Number	F2-RS-5CAB	FX-232CAB-1	GT09-C30USB-5P
Stocked Item	-	S	S
Application	FX2N-1RM to resolver	PC (RS-232) to GOT (RS-232)	PC (USB) to PLC (Mini USB)
Length (m)	5.0	3.0	3.0

Connection Cables for FX3UC Remote Terminal

Model Number	FX-16E-150CAB	FX-16E-300CAB	FX-16E-500CAB	FX-16E-150CAB-R	FX-16E-300CAB-R	FX-16E-500CAB-R	FX-40E-300CAB-R
Stocked Item	S	-	-	S	S	-	S
Application	FX3UC to remote FX terminal block						Connection cable to FX-TB40MIN terminal block used with FX3U-42HC
Length (m)	1.5	3.0	5.0	1.5	3.0	5.0	3.0

Blocks

Connection Cables for Extension Bus

Model Number	FX0N-30EC	FX0N-65EC	FX2N-GM-65EC	FX2N-GM-5EC
Stocked Item	S	S	-	-
Application	PLC bus cable	PLC bus cable	GM bus cable	GM bus cable
Length (m)	0.3	0.65	0.65	0.05

Connection Cables for FX3UC Main Units

Model Number	FX2NC-100MPCB	FX2NC-100BPCB	FX2NC-10BPCB1
Stocked Item	S	-	-
Application	24VDC power cable for main units	24VDC power cable for extension units	Power crossover cable for input extension blocks
Length (m)	1	1	0.01