

Function introduction

High functions model

Faster and easier. Realize diverse expandability and high functions. Various networks are supported, and data logging is realized by adding functions. Two types models, the FX3 Series flagship model FX3U and connector type FX3UC, are available.

FX3U

Ether net

Data can be communicated with various devices using Ethernet. Monitoring and maintenance can be easily realized from a remote location.

Built-in High-speed Counter Functions

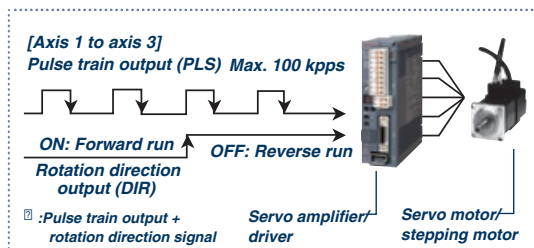
The built-in high-speed counter can import signals at max. 100 kHz (for 1-phase). This model can be used as a multiply-by-four counter when using with a normal multiply-by-one 2-phase input counter and special auxiliary relay (M8388, M8198, M8199).

∅ : FX0U supports only the DC input type.



Built-in Positioning Function (Transistor output type)

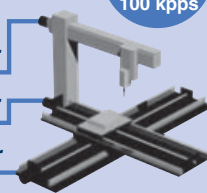
With the independent 3-axis, the speed can be designated for each axis. In addition, the program can be simplified with batch setting positioning that can be set easily with parameters.



POSITIONING

- 1-axis □ Servo amplifier/driver
- 2-axis □ Servo amplifier/driver
- 3-axis □ Servo amplifier/driver

Independent 3-axis max. 100 kpps



FX3 series



SSCNET III support realizing high-speed, high-accuracy positioning control with outstanding noise resistance. Diverse functions, such as reduce wiring with fiber optical cables and real-time monitoring of servo information, increase the ease-of-use, and support a variety of positioning control methods.



CC-Link is a high-speed field network that can simultaneously handle control and information.

Analog Control

Analog devices can be connected easily.

Communication Control

Easily link data between devices.

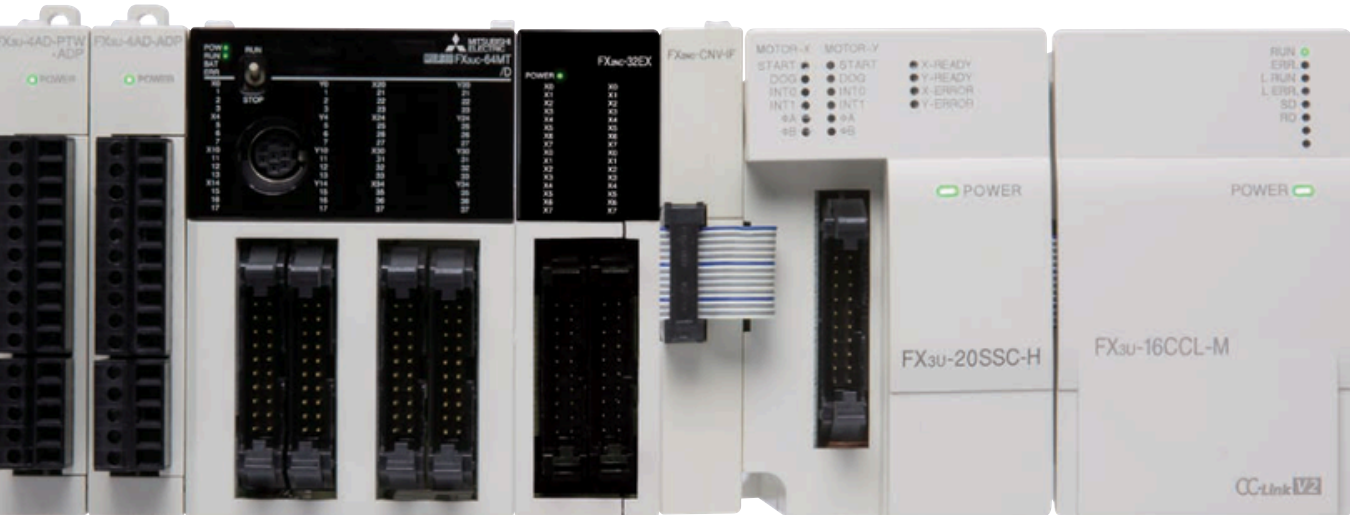
External devices, such as code readers and printers can be easily connected.



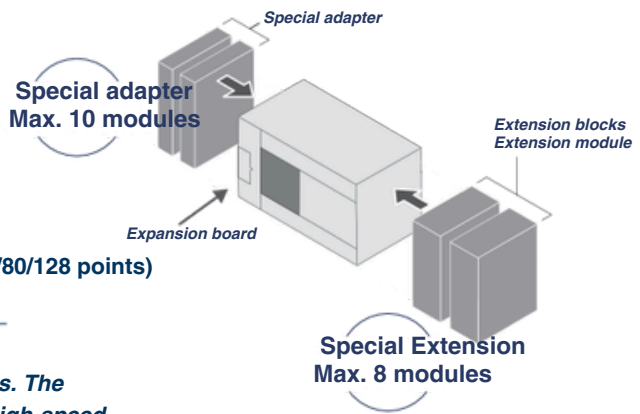
FX3UC

Reduced wiring

Reduced space



System Configuration



Controllable I/O: 16 - 256 points (Main unit I/O: 16/32/48/64/80/128 points)

[384 points for remote I/O configuration of CC-Link, AnyWireASLINK]

3rd generation micro PLC. New highly functional machine equipped with speed, capacity, performance, and functions. The built-in functions, such as the industry's highest level of high-speed processing and positioning, have been greatly improved.

Expansion board



For communication

FX3U-232-BD For RS-232C communication
FX3U-485-BD For RS-485 communication
FX3U-422-BD For RS-422 peripheral device communication

FX3U-USB-BD For USB communication

For 8-point analog volume

FX3U-8AV-BD¹⁾ For 8-point analog volume

For special adapter connection

FX3U-CNV-BD For special adapter connection

The expansion board is required to connect the special adapter (excluding the high-speed input/output special adapter). Refer to the product manual for details on the combination methods.

Special adapters



Analog special adapter

FX3U-4AD-ADP For input
FX3U-4DA-ADP For output
FX3U-3A-ADP²⁾ For input/output
FX3U-4AD-PT-ADP For Pt100 input
FX3U-4AD-PTW-ADP For Pt100 input
FX3U-4AD-TC-ADP For thermocouple input
FX3U-4AD-PNK-ADP For Pt1000, Ni1000 input

Communication special adapter

FX3U-ENET-ADP³⁾ For Ethernet communication
FX3U-232ADP-MB⁴⁾ For RS-232C communication
FX3U-485ADP-MB⁴⁾ For RS-485 communication

CF card special adapter

FX3U-CF-ADP⁵⁾ For data collection

High-speed input/output special adapter

FX3U-4HSX-ADP For high-speed input
FX3U-2HSY-ADP For high-speed output

FX 3U Main units

<p>FX3U-16MR/ES FX3U-16MT/ES FX3U-16MT/ESS FX3U-16MR/DS FX3U-16MT/DS FX3U-16MT/DSS</p>	<table border="1"> <tr><td>AC</td><td>D</td><td>R</td></tr> <tr><td>AC</td><td>2</td><td>T1</td></tr> <tr><td>AC</td><td>D</td><td>T2</td></tr> <tr><td>DC</td><td>2</td><td>R</td></tr> <tr><td>DC</td><td>D</td><td>T1</td></tr> <tr><td>DC</td><td>2</td><td>T2</td></tr> </table>	AC	D	R	AC	2	T1	AC	D	T2	DC	2	R	DC	D	T1	DC	2	T2	<p>FX3U-80MR/ES FX3U-80MT/ES FX3U-80MT/ESS FX3U-80MR/DS FX3U-80MT/DS FX3U-80MT/DSS</p>	<table border="1"> <tr><td>AC</td><td>D</td><td>R</td></tr> <tr><td>AC</td><td>2</td><td>T1</td></tr> <tr><td>AC</td><td>D</td><td>T2</td></tr> <tr><td>DC</td><td>2</td><td>R</td></tr> <tr><td>DC</td><td>D</td><td>T1</td></tr> <tr><td>DC</td><td>2</td><td>T2</td></tr> </table>	AC	D	R	AC	2	T1	AC	D	T2	DC	2	R	DC	D	T1	DC	2	T2
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DC	D	T1																																					
DC	2	T2																																					
Input : 8 pt/output : 8 pt		Input : 40 pt/output : 40 pt																																					
<p>FX3U-32MR/ES FX3U-32MT/ES FX3U-32MS/ES FX3U-32MT/ESS FX3U-32MR/DS FX3U-32MT/DS FX3U-32MT/DSS</p>	<table border="1"> <tr><td>A</td><td>D</td><td>R</td></tr> <tr><td>C</td><td>2</td><td>T1</td></tr> <tr><td>A</td><td>D</td><td>S</td></tr> <tr><td>C</td><td>2</td><td>T2</td></tr> <tr><td>AC</td><td>D</td><td>R</td></tr> <tr><td>BC</td><td>2</td><td>T1</td></tr> <tr><td>DC</td><td>D</td><td>T2</td></tr> </table>	A	D	R	C	2	T1	A	D	S	C	2	T2	AC	D	R	BC	2	T1	DC	D	T2	<p>FX3U-128MR/ES FX3U-128MT/ES FX3U-128MT/ESS</p>	<table border="1"> <tr><td>AC</td><td>D</td><td>R</td></tr> <tr><td>AC</td><td>2</td><td>T1</td></tr> <tr><td>AC</td><td>D</td><td>T2</td></tr> </table>	AC	D	R	AC	2	T1	AC	D	T2						
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DC	D	T2																																					
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AC	D	T2																																					
Input : 16 pt/output : 16 pt		Input : 64 pt/output : 64 pt																																					
<p>FX3U-48MR/ES FX3U-48MT/ES FX3U-48MT/ESS FX3U-48MR/DS FX3U-48MT/DS FX3U-48MT/DSS</p>	<table border="1"> <tr><td>AC</td><td>D</td><td>R</td></tr> <tr><td>AC</td><td>2</td><td>T1</td></tr> <tr><td>AC</td><td>D</td><td>T2</td></tr> <tr><td>DC</td><td>2</td><td>R</td></tr> <tr><td>DC</td><td>D</td><td>T1</td></tr> <tr><td>DC</td><td>2</td><td>T2</td></tr> </table>	AC	D	R	AC	2	T1	AC	D	T2	DC	2	R	DC	D	T1	DC	2	T2	<p>FX3U-32MR-UA1</p>	<table border="1"> <tr><td>AC</td><td>A</td><td>R</td></tr> </table>	AC	A	R															
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AC	D	T2																																					
DC	2	R																																					
DC	D	T1																																					
DC	2	T2																																					
AC	A	R																																					
Input : 24 pt/output : 24 pt		Input : 16 pt/output : 16 pt																																					
<p>FX3U-64MR/ES FX3U-64MT/ES FX3U-64MS/ES FX3U-64MT/ESS FX3U-64MR/DS FX3U-64MT/DS FX3U-64MT/DSS</p>	<table border="1"> <tr><td>AC</td><td>D</td><td>R</td></tr> <tr><td>AC</td><td>2</td><td>T1</td></tr> <tr><td>AC</td><td>D</td><td>S</td></tr> <tr><td>AC</td><td>2</td><td>T2</td></tr> <tr><td>DC</td><td>D</td><td>R</td></tr> <tr><td>DC</td><td>2</td><td>T1</td></tr> <tr><td>DC</td><td>D</td><td>T2</td></tr> </table>	AC	D	R	AC	2	T1	AC	D	S	AC	2	T2	DC	D	R	DC	2	T1	DC	D	T2	<p>FX3U-64MR-UA1</p>	<table border="1"> <tr><td>AC</td><td>A</td><td>R</td></tr> </table>	AC	A	R												
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DC	D	T2																																					
AC	A	R																																					
Input : 32 pt/output : 32 pt		Input : 32 pt/output : 32 pt																																					

AC AC Power supply DC DC Power supply
A AC Input D2 DC Input (sink/source)

R Relay Output T1 Transistor Output (sink) T2 Transistor Output (source) S Triac Output

①: Supported with main unit Ver. 2.70 and above

②: Supported with main unit Ver. 2.61 and above

③: Supported with main unit Ver. 3.10 and above. Only one unit can be mounted on left end of adapter.

④: MODBUS[®] communication supported with main unit Ver. 2.40 and above.

⑤: The expansion board is required to connect the special adapter in the stage after the high-speed input/output special adapter.

⑥: Supported with main unit Ver. 2.21 and above

⑦: Supported with main unit Ver. 3.00 and above

⑧: Can be connected only to AC power type main unit.

⑨: Can be connected only to main unit DC power type main unit.








Outline specifications

Item		Outline specifications
Power supply	Power specifications	AC power type: 100 to 240 V DC 50/60 Hz DC power type: 24 V DC
	Power consumption	AC power type: 30 W (16M), 35 W (32M), 40 W (48M), 45 W (64M), 50 W (80M), 65 W (128M) DC power type: 25 W (16M), 30 W (32M), 35 W (48M), 40 W (64M), 45 W (80M)
	Rush current	AC power type: Max. 30 A 5 ms or less/100 V AC, max. 65 A 5 ms or less/200 V AC DC power type: Max. 35 A 0.5 ms or less/24 V DC
	24 V DC service power supply	AC power DC input type: 400 mA or less (16M, 32M) 600 mA or less (48M, 64M, 80M, 128M)
Input/output	Input specifications	DC input type: 24 V DC, 5 to 7 mA (for no-voltage contact or sink input: NPN open collector transistor, for source input: PNP open collector transistor) AC input type: 100 to 120 V AC AC voltage input
	Output specifications	Relay output type: 2 A/1 point, 8 A/4 points common, 8 A/8 points common 250 V AC (240 V for CE, UL/cUL standard compliance), 30 V DC or less Triac output type: 0.3 A/1 point, 0.8 A/4 points common 85 to 242 V DC Transistor output type: 0.5 A/1 point, 0.8 A/4 points common, 1.6 A/8 points common 5 to 30 V DC
	Input/output extension	Can be connected with extension device for FX2N series
Built-in communication port		RS-422







Please choose the I/O type of CPU module or I/O module suited for your equipment. Refer to the manual for each product's input/output format.

 : Production discontinued in March 2018





Extension device

						
Input extension block FX2N-8EX-ES/UL FX2N-8EX-UA1/UL FX2N-16EX-ES/UL	Output extension block FX2N-8EYR-ES/UL FX2N-8EYT-ESS/UL FX2N-8EYR-S-ES/UL FX2N-16EYR-ES/UL FX2N-16EYT-ESS/UL	Input/output extension block FX2N-32ER-ES/UL ⁰⁸ FX2N-32ET-ESS/UL ⁰⁸ FX2N-48ER-ES/UL ⁰⁸ FX2N-48ET-ESS/UL ⁰⁸ FX2N-48ER-UA1/UL ⁰⁸	Special extension blocks/unit ● Analog A/D conversion FX2N-2AD FX2N-8AD FX3U-4AD ● Analog D/A conversion FX2N-2DA FX3U-4DA ● AD/DA combination FX2N-5A ● Temperature FX2N-2LC FX3U-4LC	High Speed Counter FX2N-1HC FX3U-2HC ● Position FX3U-1PG FX2N-10PG FX3U-20SSC-H FX2N-1RM-E-SET FX2N-10GM FX2N-20GM	Communication/FX3U-1PSU-5V⁰⁸ network FX2N-232IF FX3U-16CCL-M FX3U-64CCL FX2N-32CCL FX2N-64CL-M FX3U-128ASL-M FX3U-ENET ⁰⁶ FX2N-FX3U-ENET-L ⁰⁶	Extension power supply

Option

					
Display module FX3U-7DM	Display module holder FX3U-7DM-HLD	Memory cassettes FX3U-FLROM-16 FX3U-FLROM-64 FX3U-FLROM-64L FX3U-FLROM-1M ⁰⁷	Spare parts Battery FX3U-32BL (already mounted on main unit)	Extension cables FX0N-30EC (30 cm) FX0N-65EC (65 cm)	PLC Bus connector FX2N-CNV-BC

Peripheral device

			
GOT GOT2000, GOT1000	Handy programming panel FX-30P	Interface converters FX-USB-AW For USB FX-232AWC-H for RS-232C	Software GX Works2 GX Developer

FX3 series

◇ **Main units**

Model	Points		Outline dimensions (W x H x D)
	Input	Output	
uFX3S series			
FX3S-10MR/ES	6	4	60 x 90 x 75
FX3S-10MT/ES			
FX3S-10MT/ESS			
FX3S-14MR/ES	8	6	60 x 90 x 75
FX3S-14MT/ES			
FX3S-14MT/ESS			
FX3S-20MR/ES	12	8	75 x 90 x 75
FX3S-20MT/ES			
FX3S-20MT/ESS			
FX3S-30MR/ES	16	14	100 x 90 x 75
FX3S-30MT/ES			
FX3S-30MT/ESS			
FX3S-30MR/ES-2AD	16	14	100 x 90 x 75
FX3S-30MT/ES-2AD			
FX3S-30MT/ESS-2AD			
FX3S-10MR/DS	6	4	60 x 90 x 49
FX3S-10MT/DS			
FX3S-10MT/DSS			
FX3S-14MR/DS	8	6	60 x 90 x 49
FX3S-14MT/DS			
FX3S-14MT/DSS			
FX3S-20MR/DS	12	8	75 x 90 x 49
FX3S-20MT/DS			
FX3S-20MT/DSS			
FX3S-30MR/DS	16	14	100 x 90 x 49
FX3S-30MT/DS			
FX3S-30MT/DSS			
uFX3G series			
FX3G-14MR/ES	8	6	90 x 90 x 86
FX3G-14MT/ES			
FX3G-14MT/ESS			
FX3G-24MR/ES	14	10	90 x 90 x 86
FX3G-24MT/ES			
FX3G-24MT/ESS			
FX3G-40MR/ES	24	16	130 x 90 x 86
FX3G-40MT/ES			
FX3G-40MT/ESS			
FX3G-60MR/ES	36	24	175 x 90 x 86
FX3G-60MT/ES			
FX3G-60MT/ESS			
FX3G-14MR/DS	8	6	90 x 90 x 86
FX3G-14MT/DS			
FX3G-14MT/DSS			
FX3G-24MR/DS	14	10	90 x 90 x 86
FX3G-24MT/DS			
FX3G-24MT/DSS			
FX3G-40MR/DS	24	16	130 x 90 x 86
FX3G-40MT/DS			
FX3G-40MT/DSS			
FX3G-60MR/DS	36	24	175 x 90 x 86
FX3G-60MT/DS			
FX3G-60MT/DSS			
uFX3GE series			
FX3GE-24MR/ES	14	10	130 x 90 x 86
FX3GE-24MT/ES			
FX3GE-24MT/ESS			
FX3GE-24MR/DS	24	16	175 x 90 x 86
FX3GE-24MT/DS			
FX3GE-24MT/DSS			
FX3GE-40MR/ES	14	10	130 x 90 x 86
FX3GE-40MT/ES			
FX3GE-40MT/ESS			
FX3GE-40MR/DS	24	16	175 x 90 x 86
FX3GE-40MT/DS			
FX3GE-40MT/DSS			

Model	Points		Outline dimensions (W x H x D)
	Input	Output	
uFX3GC series			
FX3GC-32MT/D	16	16	34 x 90 x 87
FX3GC-32MT/DSS			
uFX3U series			
FX3U-16MR/ES	8	8	130 x 90 x 86
FX3U-16MT/ES			
FX3U-16MT/ESS			
FX3U-32MR/ES	16	16	150 x 90 x 86
FX3U-32MT/ES			
FX3U-32MS/ES			
FX3U-32MT/ESS	16	14	182 x 90 x 86
FX3U-32MR/UA1			
FX3U-48MR/ES			
FX3U-48MT/ES	24	24	182 x 90 x 86
FX3U-48MT/ESS			
FX3U-64MR/ES	32	32	220 x 90 x 86
FX3U-64MS/ES			
FX3U-64MT/ESS			
FX3U-64MR/UA1	40	40	285 x 90 x 86
FX3U-80MR/ES			
FX3U-80MT/ES			
FX3U-80MT/ESS	64	64	350 x 90 x 86
FX3U-128MR/ES			
FX3U-128MT/ES	8	8	130 x 90 x 86
FX3U-128MT/ESS			
FX3U-16MR/DS	16	16	150 x 90 x 86
FX3U-16MT/DS			
FX3U-16MT/DSS			
FX3U-32MR/DS	24	24	182 x 90 x 86
FX3U-32MT/DS			
FX3U-32MT/DSS			
FX3U-48MR/DS	32	32	220 x 90 x 86
FX3U-48MT/DS			
FX3U-48MT/DSS			
FX3U-64MR/DS	40	40	285 x 90 x 86
FX3U-64MT/DS			
FX3U-64MT/DSS			
FX3U-80MR/DS	8	8	130 x 90 x 86
FX3U-80MT/DS			
FX3U-80MT/DSS			
uFX3UC series			
FX3UC-16MR/D-T	8	8	34 x 90 x 89
FX3UC-16MR/DS-T			
FX3UC-16MT/D	8	8	34 x 90 x 87
FX3UC-16MT/DSS			
FX3UC-32MT/D	16	16	34 x 90 x 87
FX3UC-32MT/DSS			
FX3UC-64MT/D	32	32	59.7 x 90 x 87
FX3UC-64MT/DSS			
FX3UC-96MT/D	48	48	85.4 x 90 x 87
FX3UC-96MT/DSS			

Products other than the above, expansion devices and spare part which can be used alone are not published in this material.

◆ Extension, peripheral device, and battery, etc.

Model	Specifications		Compatible PLC					
	Input	Output	FX5	FXG	FXGE	FXGC	FXU	FXUC
uExtension unit								
FX2N-32ER-ES/UL	16 points	16 points	—	□	□	□	—	—
FX2N-32ET-ESS/UL			—	□	□	□	—	—
FX2N-32ER			—	□	□	□	—	—
FX2N-32ET			—	□	□	□	—	—
FX2N-32ES			—	□	□	□	—	—
FX2N-48ER-ES/UL	24 points	24 points	—	□	□	□	—	—
FX2N-48ET-ESS/UL			—	□	□	□	—	—
FX2N-48ER			—	□	□	□	—	—
FX2N-48ET			—	□	□	□	—	—
FX2N-48ER-DS			—	□	□	□	—	—
FX2N-48ET-DSS			—	□	□	□	—	—
FX2N-48ER-D			—	□	□	□	—	—
FX2N-48ET-D			—	□	□	□	—	—
FX2N-48ER-UA1/UL			—	□	□	□	—	—
FX2N-48ET-UA1/UL			—	□	□	□	—	—
uInput/output mixed block								
FX2N-8ER-ES/UL	4 points	4 points	—	□	□	□	□	□
FX _{nc} -8ER	4 points	4 points	—	□	□	□	□	□
FX2NC-64ET	32 points	32 points	—	—	—	—	—	□
uInput block								
FX2N-8EX-ES/UL	8 points	—	—	□	□	□	□	□
FX2N-8EX			—	□	□	□	□	□
FX2N-8EX-UA1/UL			—	□	□	□	□	□
FX2N-16EX-ES/UL			—	□	□	□	□	□
FX2N-16EX			—	□	□	□	□	□
FX2N-16EX-C			—	□	□	□	□	□
FX2N-16EXL-C			—	□	□	□	□	□
FX _{nc} -16EX-T-DS			—	□	□	□	□	□
FX2NC-16EX-DS			—	□	□	□	□	□
FX2NC-16EX			—	□	□	□	□	□
FX2NC-16EX-T	—	□	□	□	□	□		
FX2NC-32EX	32 points	—	—	—	—	—	—	□
FX _{nc} -32EX-DS			—	—	—	—	—	□
uOutput block								
FX2N-8EYR-ES/UL	—	8 points	—	□	□	□	□	□
FX2N-8EYR-S-ES/UL			—	□	□	□	□	□
FX2N-8EYT-ESS/UL			—	□	□	□	□	□
FX2N-8EYR			—	□	□	□	□	□
FX2N-8EYT			—	□	□	□	□	□
FX2N-8EYT-H			—	□	□	□	□	□
FX2N-8EYR-S-ES/UL			—	□	□	□	□	□
FX2N-16EYR-ES/UL			—	□	□	□	□	□
FX2N-16EYT-ESS/UL			—	□	□	□	□	□
FX2N-16EYR			—	□	□	□	□	□
FX2N-16EYT	—	□	□	□	□	□		
FX2N-16EYT-C	—	□	□	□	□	□		
FX _{nc} -16EYS	—	16 points	—	—	—	—	—	□
FX2NC-16EYR-T			—	—	—	—	—	□
FX2NC-16EYR-T-DS			—	—	—	—	—	□
FX2NC-16EYT			—	—	—	—	—	□
FX2NC-16EYT-DSS			—	—	—	—	—	□
FX2NC-32EYT	—	—	—	—	—	□		
FX _{nc} -32EYT-DSS	—	—	—	—	—	□		
uAnalog								
uInput/output								
FX2N-5A	4 ch	1 ch	—	□	□	□	□	□
FX2N-2DA	—	2 ch	—	□	□	□	□	□
FX2N-2DA	—	4 ch	—	□	□	□	□	□
FX3U-4DA	2 ch	—	—	□	□	□	□	□
FX2N-2AD	4 ch	—	—	□	□	□	□	□
FX3U-4AD	4 ch	—	—	—	□	□	□	□
FX3UC-4AD	8 ch	—	—	—	□	□	□	□
FX2N-8AD								
uTemperature sensor input block								
FX2N-2LC	2 ch temperature regulator	4 ch	—	□	□	□	□	□
FX2N-1HC	1 ch 2-phase 50 kHz	—	—	—	—	—	—	□
FX2NC-1HC	1 ch 2-phase 50 kHz	—	—	—	—	—	—	□
FX3U-2HC	2 ch 2-phase 200 kHz	—	—	—	—	—	—	□

□ : FX2NC-CNV-IF or FX3UC-1PS-5V required ☆ : F 3G-CNV-ADP required
 □ : Extension board required □ : X 3S-CNV-ADP required
 F
 X

Model	Specifications		Compatible PLC					
	Input	Output	FX5	FXG	FXGE	FXGC	FXU	FXUC
uPositioning related module/block								
FX3U-1PG	1-axis 200 kHz	—	—	—	—	—	—	□
FX2N-10PG	1-axis 1 M kHz	—	—	—	—	—	—	□
FX2N-10GM	1-axis 200 kHz	—	—	—	—	—	—	□
FX2N-20GM	2-axis 200 kHz	—	—	—	—	—	—	□
FX3U-20SSC-H	2-axis	—	—	—	—	—	—	□
FX2N-1RM-E-SET	SSCNET III	—	—	—	—	—	—	□
uCommunication block								
uCommunication block								
FX-485PC-IF-SET	Signal exchange	—	□	□	□	□	□	□
FX2N-232IF	1 ch RS-232C	—	—	—	—	—	—	□
FX3U-ENET	communication Ethernet	—	—	—	—	—	—	□
FX3U-ENET-L	Ethernet CC-Link master	—	—	—	—	—	—	□
FX3U-16CCL-M	station Intelligent device	—	—	—	—	—	—	□
FX3U-64CCL	station Intelligent device	—	—	—	—	—	—	□
FX2N-32CCL	station CC-Link/LT	—	—	—	—	—	—	□
FX2N-64CCL-M	station CC-Link/LT	—	—	—	—	—	—	□
FX3U-128ASL-M	master station AnyWireASLINK master station	—	—	—	—	—	—	□
uCommunication adapter								
FX3U-232ADP-	RS-232C (MODBUS®) communication	—	—	—	—	—	—	□
MB FX3U-	RS-485 (MODBUS®) communication	—	—	—	—	—	—	□
485ADP-MB	Ethernet	—	—	—	—	—	—	□
FX3U-4AD								
uAnalog temperature sensor adapter								
FX3U-3A-ADP	2 ch	1 ch	—	—	—	—	—	□
FX3U-4DA-ADP	—	4 ch	—	—	—	—	—	□
FX3U-4AD-ADP	4 ch	—	—	—	—	—	—	□
FX3U-4AD-PT-ADP	4 ch	—	—	—	—	—	—	□
FX3U-4AD-PTW-ADP	4 ch	—	—	—	—	—	—	□
FX3U-4AD-PTC-ADP	4 ch	—	—	—	—	—	—	□
FX3U-4AD-PNK-ADP	4 ch	—	—	—	—	—	—	□
uHigh-speed input/output adapter								
FX3U-4HSX-ADP	4 ch	—	—	—	—	—	—	□
FX3U-4HSX-ADP	—	2 ch	—	—	—	—	—	□
FX3U-4CF								
uSpecial adapter								
FX3U-CF-ADP	For CF card connection	—	—	—	—	—	—	□
uFX3S interface adapter								
FX3S-CNV-ADP	For adapter connection	—	—	—	—	—	—	□
uFX3G interface adapter								
FX3G-CNV-ADP	For adapter connection	—	—	—	—	—	—	□
uExpansion board for FX3S, FX3G(E)								
FX3G-8AV-BD	8-point volume	—	—	—	—	—	—	□
232-BD	1 ch RS-232C	—	—	—	—	—	—	□
FX3G-422-BD	1 ch RS-422C	—	—	—	—	—	—	□
FX3G-485-BD	1 ch RS-485C	—	—	—	—	—	—	□
FX3G-2EYT-BD	1 ch RS-485C	—	—	—	—	—	—	□
FX3G-2AD-BD	2 ch RS-485C	—	—	—	—	—	—	□
FX3G-1DA-BD	1 ch RS-485C	—	—	—	—	—	—	□
FX3U-485C-ADP	485C communication	—	—	—	—	—	—	□
FX3U-485C-ADP	485C communication	—	—	—	—	—	—	□
FX3U-485C-ADP	485C communication	—	—	—	—	—	—	□
FX3U-8AV-BD	8-point volume	—	—	—	—	—	—	□
232-BD	1 ch RS-232C	—	—	—	—	—	—	□
FX3U-422-BD	1 ch RS-422C	—	—	—	—	—	—	□
FX3U-485-BD	1 ch RS-485C	—	—	—	—	—	—	□
FX3U-USB-BD	communication USB connection	—	—	—	—	—	—	□
FX3U-CNV-BD	connection For FX3G(C), FX3U(C), etc.	—	—	—	—	—	—	□

□ : Main unit Ver. 2.20 and above (FX3UC requires FX2NC-CNV-IF or FX3UC-1PS-5V).
 ☆ : Main unit Ver. 2.21 and above (FX3UC requires FX2NC-CNV-IF or FX3UC-1PS-5V).
 □3 : Main unit Ver.1.20 and above and FX3G-CNV-ADP are required.
 □4 : Expansion board is required to connect main unit Ver. 2.61 and above FX3U.
 □5 : Main unit Ver. 1.10 and above.
 □6 : Supported with main unit Ver. 2.70.
 □7 : Main unit Ver. 2.00 and above, and FX3G-CNV-ADP are required (FX3GC is not required).
 □8 : Expansion board is required to connect main unit Ver. 3.10 and above FX3U.
 □9 : Main unit Ver. 1.30 and above, and FX2NC-CNV-IF or FX3UC-1PS-5V are required.
 □10 : FX3U-ENET-ADP Ver. 1.20 and above, and FX3S-CNV-ADP are required.

◇ Extension and peripheral devices, etc.

Model	Specifications		Compatible PLC					
	Input	Output	FX0S	FX0G	FX0GE	FX0GC	FX0U	FX0UC
uExtension power supply unit								
FX0UC-1PS-5V	For FX3GC, FX3UC Extension power supply		—	—	—	□	—	□
FX0U-1PSU-5V	For FX3G, FX3GE, FX3U Extension power supply		—	□	□	—	□	—
uExtension block extension cable								
FX0N-30EC	30	Extension block extension	—	□	□	□	□	□
FX0N-65EC	cm	length Extension block	—	□	□	□	□	□
uConnector converter								
FX2N-CNV-BC	cm	Extension cable relay	—	□	□	□	□	□
FX2NC-CNV-IF		Holder for external mounting	—	—	—	□	—	□
uDisplay module								
FX3S-5DM		Setting display	□	□	—	—	—	□
FX3G-5DM		Setting display	—	—	—	—	—	□
FX3U-7DM		Setting display	—	—	—	—	—	□
FX3U-7DM-HLD		Setting display	—	—	—	—	—	□
uMemory Cassettes								
FX3G-EEPROM-32L		With 32 k loader function	□	□	□	—	—	—
FX3U-FLROM-16		16 k step	—	—	—	—	—	□
FX3U-FLROM-64		64 k step	—	—	—	—	—	□
FX3U-FLROM-64L		64 k loader function	—	—	—	—	—	□
FX3U-FLROM-1M		With 64 k loader function	—	—	—	—	—	□
uPower cables								
FX2NC-100MPCB		64 k source information 1.3 MB	—	—	—	□	□	□
FX2NC-100BPCB			—	—	—	□	□	□
FX2NC-10BPCB1		For main unit	—	—	—	□	□	□
		For extension	—	—	—	□	□	□
uTerminal block								
FX-16E-TB		For input extension blocks	—	—	—	□	□	□
FX-32E-TB			—	—	—	□	□	□
FX-16EYR-TB		Depends on connection	—	□	□	□	□	□
FX-16EYS-TB		source Depends on	—	□	□	□	□	□
FX-16EYT-TB		connection source 16	—	□	□	□	□	□
FX-16EX-A1-TB		— points	□	□	□	□	□	□
FX-16E-TB/UL		16	—	□	□	□	□	□
FX-32E-TB/UL		16 points — points	□	□	□	□	□	□
FX-16EYR-ES-TB/UL		Depends on connection	—	□	□	□	□	□
FX-16EYS-ES-TB/UL		source Depends on	—	□	□	□	□	□
FX-16EYT-ES-TB/UL		connection source 16	—	□	□	□	□	□
FX-16EYT-ESS-TB/UL		— points	□	□	□	□	□	□
		16	—	□	□	□	□	□
		— points	□	□	□	□	□	□
		16	—	□	□	□	□	□
		— points	□	□	□	□	□	□
		16	—	□	□	□	□	□
uInput/output connection cable								
FX-16E-150CAB	FX:5	Flat cable between 16 points	—	□	□	□	□	—
16E-300CAB	FX:0	FX Flat cable between 30 points	□	□	□	□	□	—
16E-500CAB	FX:0	TB-FX Flat cable between 50 points	□	□	□	□	□	—
32E-150CAB	FX:0	between TB-FX Flat	□	□	□	□	□	—
32E-300CAB	FX:0	cable between TB-FX	□	□	□	□	□	—
32E-500CAB	FX:0	Flat cable between TB-	□	□	□	□	□	—
16E-500CAB-S	FX:5	FX Flat cable between	□	□	□	□	□	—
16E-150CAB-R	FX:0	TB-FX	□	□	□	□	□	—
16E-300CAB-R	FX:0	FX side connector	□	□	□	□	□	—
16E-500CAB-R	FX:0	loose wire Round cable	□	□	□	□	□	—
uInput/output connector								
FX2C-I/O-CON	30-pin	Connector cable between	—	□	□	□	□	□
FX- /I/O-CON-S	20-pin	Connector 5-piece set enclosed (for 0.3 mm ²)	—	□	□	□	□	□
FX- /I/O-CON-SA	20-pin	Connector 5-piece set enclosed (for 0.5 mm ²)	—	□	□	□	□	□
FX-I/O-CON2	40-pin	Connector 2-piece set enclosed	—	□	□	□	□	□
FX-I/O-CON2-S	40-pin	Connector 2-piece set enclosed (for 0.3 mm ²)	—	□	□	□	□	□
FX-I/O-CON2-SA	40-pin	Connector 2-piece set enclosed (for 0.5 mm ²)	—	□	□	□	□	□

□1 : Supported with main unit Ver. 1.10 and above
 □2 : Supported with main unit Ver. 3.00 and above
 □3 : Refer to each PLC manual for details on the products that can be used.
 □4 : Supported with main unit Ver. 1.20 and above
 □5 : Refer to the product manual for details on the Windows® compatible operating system.
 □6 : FX-30P Ver. 1.50 and above. □7 : FX-30P Ver. 1.30 and above.

◇ Sequence programs and peripheral devices, etc.














Model	Specifications		Compatible PLC					
	Input	Output	FX0S	FX0G	FX0GE	FX0GC	FX0U	FX0UC
uMELSOFT GX series programming software								
SW0DND-GXW2-E	GX Works2		□	□	□	□	□	□
GXW2-E	GX Developer		—	□	□	□	□	□
uMELSOFT MX series integrated data link software								
SW1D5C-ACT-E	MX Component		□	□	□	□	□	□
SW1D5C-SHEET-E	MX Sheet		□	□	□	□	□	□
SW1D5C-SHEETSET-E	MX Works		□	□	□	□	□	□
uRS-232C cable for personal computer								
F-232CAB-1	3 m	D-sub 9-pin female ⇔ D-sub 25-pin male	□	□	□	□	□	□
FX-232CAB-1	3 m	D-sub 9-pin female ⇔ D-sub 9-pin female	□	□	□	□	□	□
F-232CAB	3 m	D-sub 25-pin male ⇔ D-sub 25-pin male	□	□	□	□	□	□
F-232CAB-2	3 m	Half-pitch 14-pin ⇔ D-sub 25-pin male	□	□	□	□	□	□
FX-232CAB-2	3 m	Half-pitch 14-pin ⇔ D-sub 9-pin female	□	□	□	□	□	□
uRS-422 cable for PLC								
FX-422CAB0	1.5 m	FX round connector ⇔ FX-232AWC-H	□	□	□	□	□	□
uRS-232C/RS-422 converter								
FX-232AWC-H		Between FX-personal computer	□	□	□	□	□	□
uUSB/RS-422 converter								
FX-USB-AW		FX-personal coputer	—	—	—	—	□	□
uHandy programming panel (HPP)								
FX-30P		HPP unit, cable	□	□	□	□	□	□
uPLC connection cable for FX-30P								
FX-20P-CAB0	1.5 m	FX round connector	□	□	□	□	□	□
FX-20P-CADP	0.3 m	FX round connector ⇔ FX square connector	□	□	□	□	□	□

◇ Peripheral devices and connection cables for positioning

Model	Specifications	Compatible Models		
		FX2N-10GM	FX2N-20GM	20SFX03U-
uPersonal computer software ^{□5}				
SW1D5C-FXSSC-E	FX Configurator-FP	—	—	□
FX-PCS-VPS/WIN-E	For FX2N-10GM/20GM	□	□	—
uTeaching panel				
E-20TP-SET0	3	With cable	□	□
E-20TP-CAB0	m	Cable	□	□
uConnection cable for servo				
E-GMH-200CAB	2 ^{□1}	For MR-H	□	□
E-GMJ-200CAB	m	For MR-J	□	□
E-GMJ2-200CAB1A	2	For MR-J2(S)	□	□
E-GMC-200CAB	m	For MR-C	□	□
E-GM-200CAB	2	With GM side connector	□	□
uExtension cable				
FX2N-GM-5EC	2.5 m	Connection between GM-FX	□	□
FX2N-GM-65EC	6.5 m	Connection between GM-FX	□	□

List of models











Voltage and current input/output

	1 to 3 ch	4 to 5 ch	8 ch
Analog input	<p>FX3s</p>  <p>FX3s-30ME/ES2 -2AD</p> <p>Resolution at 0 to 10 V DC input: 10 mV</p>	<p>FX3s FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4AD-ADP</p> <p>Resolution at 0 to 10 V DC input: 2.5 mV Resolution at 4 to 20 mA DC input: 8 µA</p>	
	<p>FX3s FX3G FX3GE</p>  <p>FX3G-2AD-BD</p> <p>Resolution at 0 to 10 V DC input: 2.5 mV Resolution at 4 to 20 mA DC input: 8 µA</p>	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4AD⁰</p> <p>Resolution at -10 to 10 V DC input: 0.32 mV Resolution at -20 to 20 mA DC input: 1.25 µA</p>	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-8AD⁰</p> <p>Resolution at -10 to 10 V DC input: 0.63 mV Resolution at -20 to 20 V DC input: 2.5 µA</p>
	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-2AD⁰</p> <p>Resolution at 0 to 10 V DC input: 2.5 mV Resolution at 4 to 20 mA DC input: 4 µA Same characteristics for both 2 ch</p>	<p>FX3GC FX3UC</p>  <p>FX3UC-4AD</p> <p>Resolution at -10 to 10 V DC input: 312.5 µV (0.3125 mV) Resolution at -20 to 20 mA DC input: 1.25 µA</p>	
	<p>Resolution at 0 to 10 V DC input: 2.5 mV Resolution at 4 to 20 mA DC input: 5 µA</p>	<p>Resolution at -10 to 10 V DC input: 50 µA Resolution at -20 to 20 mA DC input: 1.25 µA</p>	
	<p>FX3s FX3G FX3GE FX3GC FX3U FX3UC</p> <p>2 ch</p>  <p>FX3U-3A-ADP</p> <p>Resolution at 0 to 10 V DC output: 2.5 mV Resolution at 4 to 20 mA DC output: 4 µA</p>	<p>FX3G FX3GE FX3GC FX3U FX3UC</p> <p>4 ch</p>  <p>FX2N-5A⁰</p> <p>Resolution at -10 to 10 V DC output: 50 mV Resolution at 0 to 20 mA DC output: 20 µA</p>	
	<p>FX3s FX3G FX3GE</p> <p>1 ch</p>  <p>FX3G-1DA-BD</p> <p>Resolution at 0 to 10 V DC output: 2.5 mV Resolution at 4 to 20 mA DC output: 8 µA</p>	<p>FX3s FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4DA-ADP</p> <p>Resolution at 0 to 10 V DC output: 2.5 mV Resolution at 4 to 20 mA DC output: 4 µA</p>	
<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-2DA⁰</p> <p>Resolution at 0 to 10 V DC output: 2.5 mV Resolution at 4 to 20 mA DC output: 4 µA Same characteristics for both 2 ch</p>	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4DA⁰</p> <p>Resolution at -10 to 10 V DC output: 0.32 mV Resolution at 0 to 20 mA DC output: 0.63 µA</p>		

⁰: FX2NC-CNV-IF or FXUC-1PS-5V is required to be connected to the FX/FXUC main unit.








List of models

Temperature sensor input

	Temperature input		Temperature control	
	4 ch	8 ch	2 ch	4 ch
Thermocouple	<p>FX3S FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4AD-TC-ADP</p> <ul style="list-style-type: none"> ◆ K, J types supported ◆ Example of measurement temperature range and resolution K type : -100 to 1000°C (0.4°C) J type : -100 to 600°C (0.3°C) 	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-8AD^①</p> <ul style="list-style-type: none"> ◆ K, J, T types supported ◆ Example of measurement temperature range and resolution K type : -100 to 1200°C (0.1°C) J type : -100 to 600°C (0.1°C) 	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-2LC^①</p> <p>Production discontinued in March 2018</p> <ul style="list-style-type: none"> ◆ K, J, R, S, E, T, B, N, PL II, W5Re/W26Re, U, L types supported ◆ Example of measurement temperature range and resolution K type : -100 to 400°C (1°C) J type : -100 to 800°C (0.1°C) 	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4LC^①</p> <ul style="list-style-type: none"> ◆ K, J, R, S, E, T, B, N, PL II, W5Re/W26Re, U, L types supported ◆ Example of measurement temperature range and resolution K type : -100 to 1300°C (1°C) J type : -100 to 800°C (0.1°C)
	Resistance temperature detector	<p>FX3S FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4AD-PT-ADP</p> <ul style="list-style-type: none"> ◆ Pt100 supported ◆ Example of measurement temperature range and resolution -50 to 250°C (0.1°C) 		<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-2LC^①</p> <p>Production discontinued in March 2018</p> <ul style="list-style-type: none"> ◆ JPt100, Pt100 supported ◆ Example of measurement temperature range and resolution JPt100 : -200 to 500 °C (0.1 °C) Pt100 : -200 to 600°C (0.1°C)
<p>FX3S FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4AD-PTW-ADP</p> <ul style="list-style-type: none"> ◆ Pt100 supported ◆ Example of measurement temperature range and resolution -100 to 600°C (0.2 to 0.3°C) 			<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX2N-2LC^①</p> <p>Production discontinued in March 2018</p> <ul style="list-style-type: none"> ◆ NPN open collector transistor output 2 points ◆ Standard PID control 	<p>FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4LC^①</p> <ul style="list-style-type: none"> ◆ NPN open collector transistor output 4 points ◆ Standard PID control ◆ Heating/cooling PID control
<p>FX3S FX3G FX3GE FX3GC FX3U FX3UC</p>  <p>FX3U-4AD-PNK-ADP</p> <ul style="list-style-type: none"> ◆ Pt1000, Ni1000 supported ◆ Example of measurement temperature range and resolution Pt1000: -50 to 250°C (0.1°C) Ni1000: -40 to 110°C (0.1°C) 				








① : FX2N-CNV-IF or FXUC-1PS-5V is required to be connected to the FX3U-4AD-PTW-ADP main unit.

List of models

	1-axis	2-axis	3-axis
<p>Main unit (Built-in positioning)</p> <p>High-speed output special adapter</p>		<p>FX3U FX3S FX3G FX3GE FX3GC</p>  <p>FX3U-2HSY-ADP</p> <p>FX3S, FX3G 14/24-point type, FX3GE 24-point type, FX3GC main unit Transistor output type</p> <ul style="list-style-type: none"> Up to 1 Mpps Differential line driver output PULSE/SIGN mode, CW/CCW mode <ul style="list-style-type: none"> Up to 200 kpps Transistor output PULSE/SIGN mode 	<p>FX3G FX3GE FX3U FX3UC</p>  <p>FX3G 40/60-point type, FX3GE 40-point type, FX3U/FX3UC main unit Transistor output type</p> <ul style="list-style-type: none"> Up to 200 kpps Transistor output PULSE/SIGN mode
<p>Positioning module</p> <p>Pulse output block</p>	<p>FX3U FX3UC FX3U FX3UC</p>  <p>FX3U-1PG FX2N-10PG^①</p> <ul style="list-style-type: none"> Up to 200 kpps Transistor output PULSE/SIGN mode, CW/CCW mode <ul style="list-style-type: none"> Up to 1 Mpps Differential line driver output PULSE/SIGN mode, CW/CCW mode 	<p>FX3U FX3UC</p>  <p>FX2N-20GM^①</p> <ul style="list-style-type: none"> Up to 200 kpps Transistor output PULSE/SIGN mode, CW/CCW mode Positioning software: FX-PCS-VPS/WIN-E 	
<p>SSCNET III compatible positioning block</p>		<p>FX3U FX3UC </p>  <p>FX3U-20SSC-H^①</p> <ul style="list-style-type: none"> Linear interpolation, circular interpolation Parameter setting software: FX Configurator-FP 	
<p>Angle control unit</p>	<p>FX3U FX3UC</p>  <p>FX2N-1RM-E-SET^①</p> <ul style="list-style-type: none"> No. of cam output points: Max. 48 points Control resolution: 720 divisions (0.5 degree) or 360 divisions (1 degree) per revolution Response rotation speed: 415 r/min/0.5 degrees or 830 r/min/1 degree 		

①: FX2N-CNV-IF or FX3U-1PS-5V is required to be connected to the FX main unit.

List of models



		Number of channels	Input format/ input voltage	Type/max. frequency
Main unit (Built-in high-speed counter)	<p>FX3s</p>  <p>FX3S Main unit</p>	<p>Max. 6 ch</p> <p>1-phase 1-input Max. 60 kHz: 2 ch Max. 10 kHz: 4 ch</p>	<p>Open collector</p> <p>24 V DC</p>	<p>1-phase 1-input : 60 kHz^①</p> <p>1-phase 2-input : 60 kHz^①</p> <p>2-phase 2-input : 30 kHz^① [multiplied by 1]</p>
	<p>FX3G FX3GE FX3GC</p>  <p>FX3G/FX3GE/FX3GC Main unit</p>	<p>Max. 6 ch</p> <p>1-phase 1-input Max. 60 kHz: 4 ch Max. 10 kHz: 2 ch</p>	<p>Open collector</p> <p>24 V DC</p>	<p>1-phase 1-input : 60 kHz^①</p> <p>1-phase 2-input : 60 kHz^①</p> <p>2-phase 2-input : 30 kHz^① [multiplied by 1]</p>
Main unit (Built-in high-speed counter)	<p>FX3U FX3UC</p>  <p>FX3U/FX3UC Main unit</p>	<p>Max. 8 ch</p> <p>1-phase 1-input Max. 100 kHz: 6 ch Max. 10 kHz: 2 ch</p>	<p>Open collector</p> <p>24 V DC</p>	<p>1-phase 1-input : 100 kHz^①</p> <p>1-phase 2-input : 100 kHz^①</p> <p>2-phase 2-input : 50 kHz^① [multiplied by 1]</p> <p>2-phase 2-input : 50 kHz^① [multiplied by 4]</p>
	<p>FX3U FX3UC</p>  <p>FX3U-2HC^②</p>	<p>Max. 2 ch</p>	<p>Open collector Differential line driver</p> <p>5 V to 24 V DC</p>	<p>1-phase 1-input : 200 kHz</p> <p>1-phase 2-input : 200 kHz</p> <p>2-phase 2-input : 200 kHz [multiplied by 1]</p> <p>2-phase 2-input : 100 kHz [multiplied by 2]</p> <p>2-phase 2-input [multiplied by 4] : 50 kHz</p>
High-speed input special adapter	<p>FX3U</p>  <p>FX3U-4HSX-ADP</p>	<p>Max. 4 ch (1-phase 1-input)</p>	<p>Differential line driver</p> <p>5 V DC</p>	<p>1-phase 1-input : 200 kHz</p> <p>1-phase 2-input : 200 kHz</p> <p>2-phase 2-input : 100 kHz [multiplied by 1]</p> <p>2-phase 2-input : 100 kHz [multiplied by 4]</p>
High speed counter blocks	<p>FX3U FX3UC</p>  <p>FX2N-1HC^②</p>	<p>Max. 1 ch</p>	<p>Open collector Differential line driver</p> <p>5 V to 24 V DC</p>	<p>1-phase 1-input : 50 kHz</p> <p>1-phase 2-input : 50 kHz</p> <p>2-phase 2-input : 50 kHz [multiplied by 1]</p> <p>2-phase 2-input : 25 kHz [multiplied by 2]</p> <p>2-phase 2-input [multiplied by 4] : 12.5 kHz</p>
	<p>FX3UC</p>  <p>FX2NC-1HC</p>			

①: The max. frequency varies according to the high-speed counter No. The number of channels and general frequency may be restricted by the usage conditions. Refer to each manual for details.

②: FX2NC-CNV-IF or FX3UC-1PS-5V is required to connected to the FX3UC main unit.

List of models

Open Field Network

	Master station	Remote device station	Intelligent device station
CC-Link	<p>FX3G FX3GE FX3GC FX3U FX3UC CC-Link V2</p>  <p>FX3U-16CCL-M⁰</p> <ul style="list-style-type: none"> ◆ Max. 16 stations ◆ Remote I/O station: 8 maximum/256 points or less ◆ Remote device stations + intelligent device stations: 8 maximum/256 points or less ◆ Assign link devices with program 	<p>FX3G FX3GE FX3GC FX3U FX3UC CC-Link</p>  <p>FX2N-32CCL⁰</p> <ul style="list-style-type: none"> ◆ 1 to 4 stations occupied ◆ Assign link devices with program 	<p>FX3G FX3GE FX3GC FX3U FX3UC CC-Link V2</p>  <p>FX3U-64CCL⁰</p> <ul style="list-style-type: none"> ◆ 1 to 4 stations occupied ◆ Assign link devices with program
CC-Link/LT	<p>FX3G FX3GE FX3GC FX3U FX3UC CC-Link/LT</p>  <p>FX2N-64CL-M⁰</p> <ul style="list-style-type: none"> ◆ Automatically assign link devices with CONFIG mode 		

⁰: FX2N-CNV-IF or FXUC-1PS-5V is required to be connected to the FX3U/FX3UC main unit.

List of models

Sensor Solution

Master station

AnyWireASLINK

FX3G FX3GE FX3GC FX3U FX3UC

AnyWire ASLINK




FX3U-128ASL-M¹

◆ Max. 128 modules/128 points

MODBUS®

RS-485

FX3S FX3G FX3GE FX3GC FX3U FX3UC




FX3U-485ADP-MB

- ◆ MODBUS® RTU supported
- ◆ MODBUS® ASCII supported (FX3U/5My)
- ◆ Master/slave selectable
- ◆ Max. 32 stations for master
- ◆ Transmission distance 500 m or less

1 ch
for master
or slave

RS-232C

FX3S FX3G FX3GE FX3GC FX3U FX3UC




FX3U-232ADP-MB

- ◆ MODBUS® RTU supported
- ◆ MODBUS® ASCII supported (FX3U/5My)
- ◆ Master/slave selectable
- ◆ Max. 1 station for master
- ◆ Transmission distance 15 m or less

Ether net


FX3G FX3GE FX3GC FX3U FX3UC



FX3U-ENET¹

Max. 8 connections


FX3U FX3UC



FX3U-ENET-L²

Max. 4 connections


FX3S FX3G FX3GC FX3U FX3UC



FX3U-ENET-ADP

Max. 4 connections

FX3GE



**FX3GE Main unit
(Built-in Ethernet port)**

Supported protocol

- ◆ Fixed buffer communication (non-procedural communication)
- ◆ MELSOFT connection
- ◆ Mail send/receive function (FX3U-ENET only)
- ◆ MC protocol (1E frame)
- ◆ Mail send functions (FX3U-ENET only)
- ◆ Data monitoring

① 1: FX3NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3U/FX3UC main unit.

② 2: FX3NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3U main unit.





List of models

Serial Communication

RS-485

Inverter communication

FX3U FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3GC FX3U FX3UC

FX3U-485-BD **FX3G-485-BD** **FX3G-485-BD-RJ** **FX3U-485ADP-MB**

8 modules

- Max. 8 modules
- Transmission distance 50 m or less

- Max. 8 modules
- Transmission distance 500 m or less

N:N network

FX3U FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3GC FX3U FX3UC






FX3U-485-BD **FX3G-485-BD** **FX3G-485-BD-RJ** **FX3U-485ADP-MB**





1:n (n=1 to 7)

- Max. 8 modules
- Can be used with FX5
- Transmission distance 50 m or less

- Max. 8 modules
- Can be used with FX5
- Transmission distance 500 m or less

Parallel link

FX3U FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3GC FX3U FX3UC

FX3U-485-BD **FX3G-485-BD** **FX3G-485-BD-RJ** **FX3U-485ADP-MB**

1:1

- 1:1 between same CPU series
- Transmission distance 50 m or less

- 1:1 between same CPU series
- Transmission distance 500 m or less

RS-485

Computer Link

FX3U FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3GC FX3U FX3UC






FX3U-485-BD **FX3G-485-BD** **FX3G-485-BD-RJ** **FX3U-485ADP-MB**




- 1C frame supported (with restrictions)
- Transmission distance 50 m or less

- 1C frame supported (with restrictions)
- Transmission distance 500 m or less

RS-232C

Computer Link

FX3U FX3S FX3G FX3GE FX3S FX3G FX3GE FX3S FX3G FX3GE FX3GC FX3U FX3UC

FX3U-232-BD **FX3G-232-BD** **FX3U-232ADP-MB**

- 1C frame supported (with restrictions)
- Transmission distance 15 m or less

List of models

Serial Communication

	RS-485	RS-232C
Non-protocol communication	<p>  FX3U-485-BD FX3G-485-BD FX3G-485-BD-RJ </p> <p> ◆ Send/receive with RS, RS2 instructions ◆ Transmission distance 50 m or less </p>	<p>  FX3U-232-BD FX3G-232-BD FX3U-232ADP-MB </p> <p> ◆ Send/receive with RS, RS2 instructions ◆ Transmission distance 15 m or less </p>
	<p>  FX3U-485ADP-MB </p> <p> ◆ Send/receive with RS, RS2 instructions ◆ Transmission distance 500 m or less </p>	<p>  FX3U-232IF^U </p> <p> ◆ Send/receive to and from buffer memory with FROM/TO instructions ◆ Transmission distance 15 m or less </p>
Programming communication	<p>  FX3S/FX3G/FX3GE/ FX3GC/FX3U/FX3UC (Built-in RS-422 port) FX3U-422-BD FX3G-422-BD </p> <p> ◆ Transmission distance: depends on connected devices </p>	<p>  FX3U-232-BD FX3G-232-BD FX3U-232ADP-MB </p> <p> ◆ Transmission distance 15 m or less </p>
	<p>USB</p> <p>  FX3U-USB-BD FX3S/FX3G/FX3GE/FX3GC (Built-in USB port) </p>	

^U: FX3NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3 main unit.