

FX3S NEW

Controllable I/O: 10 - 30 points
 (Main Unit I/O: 10/14/20/30 points)

New possibilities

The newly released FX3s adds extra expandability to the high cost performance of the venerable entry-level FX1s. FX3s makes it possible to utilize analog, Ethernet and MODBUS® functions even in small-scale systems.

- Basic controller for general applications
- High performance with minimal size

Product Details

All-in-one CPU, power supply and I/O. Includes many upgraded features from the FX1s. Especially usage of the FX3 series ADP bus system and expansion boards (BD).

Instruction Times

Basic Instructions: 0.21 μ s / instruction (Contact Instruction)
 Applied Instructions: 0.5 μ s / instruction (MOV Instruction)

Memory Specifications

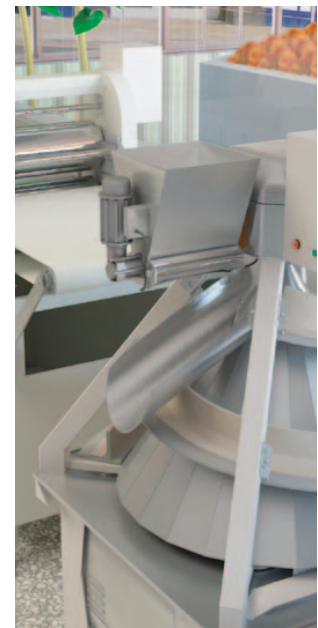
4,000 steps of built-in program memory.
 No battery. No maintenance.

Applicable Standards

All products support EN and UL/cUL standards.
 Please consult with your local Mitsubishi representative regarding FX3s shipping approvals.

Device Memory Specifications

Auxiliary Relays	1,536 points
Timers	138 points
Counters	67 points
Data Registers	3,000 points
Extension File Registers	2,000 points



FX SERIES SELECTION GUIDE



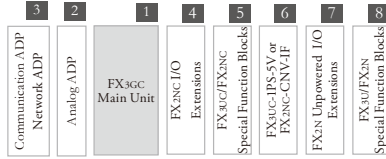
	System Item	Item Specification *	Terminal-type I/O					Connector-type I/O		
			Non-Extendable *		Extendable			Extendable		
			<i>FX1S</i>	<i>FX3S</i>	<i>FX3G</i>	<i>FX3GE</i>	<i>FX3U</i>	<i>FX3GC</i>	<i>FX3UC</i>	
Hardware	I/O points	Up to 30 local I/O's	✓	✓	★	★	★	★	★	
		Up to 128 local I/O's			✓	✓	★	✓	★	
		Up to 256 local I/O's					✓		✓	
		Up to 256 local and network I/O's			✓	✓	★	✓	★	
		Up to 384 local and network I/O's					✓		✓	
	Power Supply	AC Power	✓	✓	✓	✓	✓			
		DC Power	✓		✓		✓	✓	✓	
	Input type	100 V AC					✓			
		24 V DC	✓	✓	✓	✓	✓	✓	✓	
	Output type	Relay	✓	✓	✓	✓	✓		✓	
		Transistor	✓	✓	✓	✓	✓	✓	✓	
		Triac					✓			
	CPU Speed	Standard	✓	✓	✓	✓	★	✓	★	
		Advanced					✓		✓	
	Communication ports	USB		✓	✓	✓		✓		
RS-422		✓	✓	✓	✓	✓	✓	✓		
Ethernet					✓					
Analog I/O	Input : 2 Output : 1				✓					
Options	Analog I/O (Current / Voltage)	Up to 4 ADP channels		✓	✓	✓	✓	✓	✓	
		Up to 8 ADP channels			✓*1		★	✓	★	
		Up to 16 ADP channels					✓		✓	
		Up to 64 special function block channels			✓	✓	✓	✓	✓	
	Temperature Sensor Input	Up to 4 ADP input channels		✓	✓	✓	✓	✓	✓	
		Up to 8 ADP input channels			✓*1		★	✓	★	
		Up to 16 ADP input channels					✓		✓	
		Up to 64 special function block input channels			✓	✓	✓	✓	✓	
	Network	Temperature control			✓	✓	✓	✓	✓	
		CC-Link (Master/Slave)			✓	✓	✓	✓	✓	
		CANopen®			✓	✓	✓	✓	✓	
		J1939			✓	✓	✓	✓	✓	
		Ethernet	✓	✓	✓	✓	✓	✓	✓	
		PROFIBUS-DP	Master					✓		✓
			Slave			✓	✓	✓	✓	✓
Communication	N : N Network/Parallel Link	✓	✓	✓	✓	✓	✓	✓		
	Computer Link (RS-232C/RS-485)	Non-Protocol Communication	✓	✓	★	✓	★	★	★	
		1 Channel (RS-232C/RS-485)			✓		✓	✓	✓	
		Multi-Channel (RS-232C)			✓		✓	✓	✓	
	Add-on Communication Ports	Multi-Channel (RS-485)			✓		✓	✓	✓	
		RS-485	✓	✓	✓	✓	✓	✓	✓	
		RS-232C	✓	✓	✓	✓	✓	✓	✓	
	USB					✓				
Embedded USB		✓	✓	✓		✓				
Modbus®		✓	✓	✓	✓	✓	✓			
Inverter control	Analog	✓	✓	✓	✓	✓	✓	✓		
	Pulse width modulation	✓	✓	✓	✓	✓	✓	✓		
	RS-485 Communication		✓	✓	✓	✓	✓	✓		
Positioning	1 - 2 100 kHz Axis Built-in Positioning	✓	✓	✓	✓	★	✓	★		
	Up to 3 x 100 kHz Axis Built-in Positioning			✓*2	✓*2	✓		✓		
	Up to 4 x 200 kHz Axis with High-Speed Output Adapters					✓				
	Up to 8 x 1 MHz Axis with Special Function Blocks					✓		✓		
	Up to 16 SSCNET III Axis with Special Function Blocks					✓		✓		
Cam switching					✓		✓			
High-Speed Counters	Up to 6 high speed counters, Max. 60 kHz	✓	✓	✓	✓	★	✓	★		
	Up to 8 high speed counters, Max. 100 kHz					✓		✓		
	Up to 8 high speed counters with 200 kHz Adapter					✓				
	Additional Extension using High-Speed Counter Block					✓		✓		
Storage	Source data storage					✓		✓		
Data Logging	CF card Adapter					✓		✓		

* : Some items require additional extension modules in order to function where other connection rules and requirements may apply. For more details, refer to the respective product manuals.

✓ : Contains required functionality
 ★ : Higher functionality or more expandability
 * 1 : 14 and 24 I/O points main units : Max. 4 channels
 * 2 : 14 and 24 I/O points main units : Max. 2 axes

FX SERIES CONFIGURATION

FX3GC



Special Adapters

3

Network
FX3U-ENET-ADP*

Communication
FX3U-232ADP-MB
FX3U-485ADP-MB

2

Analog
FX3U-4AD-ADP
FX3U-4DA-ADP
FX3U-3A-ADP

Temperature
FX3U-4AD-PT-ADP
FX3U-4AD-TC-ADP
FX3U-4AD-PTW-ADP
FX3U-4AD-PNK-ADP

*:Firmware version 2.00 or later.

FX3GC Main Units

1

FX3GC Main Units 32 I/O
FX3GC-32MT/D **DC** **D** **T1**
FX3GC-32MT/DSS **DC** **D** **T2**

DC DC Power supply **T1** Transistor Output(sink)
D DC Input(sink/source) **T2** Transistor Output(source)

1

FX MAIN UNITS

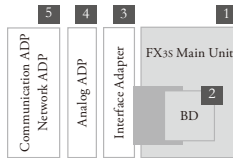
Optional Equipment and Software

- GOT**
GOT1000 (GT10/GT12/GT14/GT16)
- Interface Converter**
FX-232AWC-H
- Software**
GX Developer
GX Works2

Accessories

- I/O Cables**
General I/O cable
FX-16E-500CAB-S(5m)
- Connecting to Terminal Blocks**
FX-16E-150CAB(1.5m)
FX-16E-300CAB(3m)
FX-16E-500CAB(5m)

FX3S



Special Adapters

5

Network
FX3U-ENET-ADP

Communication
FX3U-232ADP-MB
FX3U-485ADP-MB

4

Analog
FX3U-4AD-ADP
FX3U-4DA-ADP
FX3U-3A-ADP

Temperature
FX3U-4AD-PT-ADP
FX3U-4AD-TC-ADP
FX3U-4AD-PTW-ADP
FX3U-4AD-PNK-ADP

3

Interface Adapter
FX3S-CNV-ADP

Optional Equipment and Software

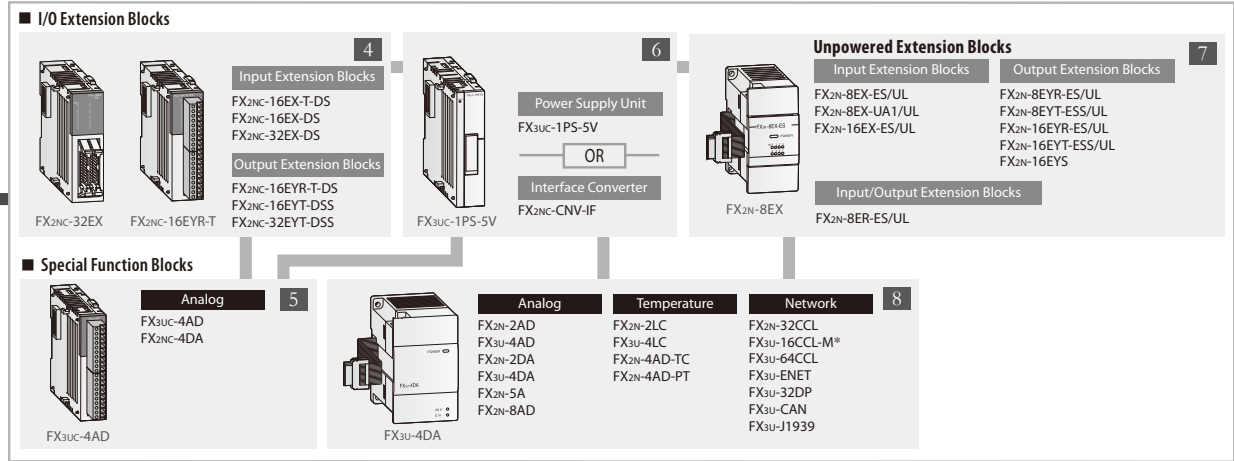
- GOT**
GOT1000 (GT10/GT12/GT14/GT16)
- Interface Converter**
FX-232AWC-H
- Software**
GX Works2

Expansion Boards

2

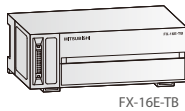
- Communication**
FX3G-232-BD
FX3G-422-BD
FX3G-485-BD
- Analog**
FX3G-2AD-BD
FX3G-1DA-BD
- Analog Setpoint**
FX3G-8AV-BD

Special Function Modules



Connector Parts

- FX2c-I/O-CON
- FX2c-I/O-CON-S
- FX2c-I/O-CON-SA



Terminal Blocks

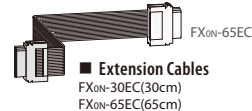
- FX-16E-TB/UL
- FX-16EYR-ES-TB/UL
- FX-16EYS-ES-TB/UL
- FX-16EYT-ESS-TB/UL
- FX-32E-TB/UL

Input Switches

- FX2c-16SW-C
- FX2c-16SW-TB

Battery

- FX3U-32BL



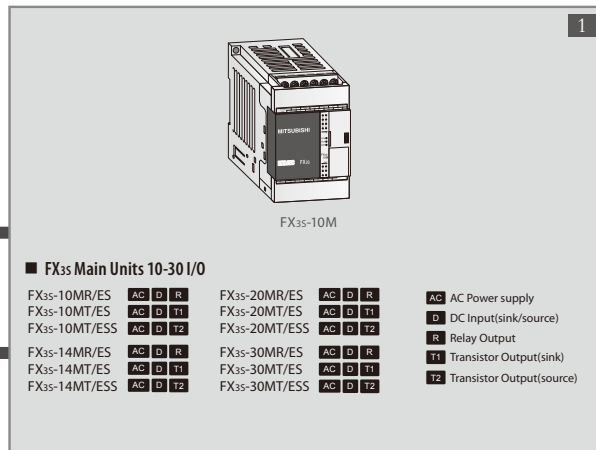
PLC Bus Connector

- FX2N-CNV-BC

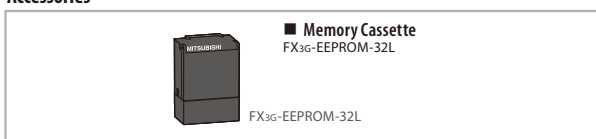
Power Supply Cables

- FX2NC-100MPCB(1m)
- FX2NC-100BPCB(1m)
- FX2NC-10BPCB1(0.1m)

FX3s Main Units



Accessories



Programming Specifications

Programming				
System specifications	FX1s	FX3s	FX3G/FX3GC/FX3GE	FX3U/FX3UC
I/O points	30(+4 optional)	30 total	256 total (combined local and CC-Link remote I/O)	384 total (combined local and CC-Link remote I/O)
Address range	Max. 30 direct addressing	Max. 30 direct addressing	Max. 128 direct addressing and Max. 128 remote I/O	Max. 256 direct addressing and Max. 256 remote I/O
Program memory	2,000 steps EEPROM	16,000 steps EEPROM (Program capacity is 4,000 steps.)	32,000 steps EEPROM (internal), exchangeable EEPROM memory cassette**	64,000 steps RAM (internal), exchangeable FLROM memory cassette
Instruction Time	0.7 μs / contact instruction	0.21 μs or 0.5 μs / contact instruction	0.21 μs or 0.42 μs / contact instruction	0.065 μs / contact instruction
Number of instructions	27 sequence instructions, 2 steps ladder instructions, 85 applied instructions	29 sequence instructions, 2 steps ladder instructions, 116 applied instructions	29 sequence instructions, 2 steps ladder instructions, 124 applied instructions	29 sequence instructions, 2 steps ladder instructions, 218 applied instructions
Programming language	Step ladder, instruction list, SFC Step ladder			
Program execution	Cyclical execution, refresh mode processing			
Program protection	8 character keyword with 3 protection levels each*	2 different keywords, Max password length 16 characters		

* 8-character keyword protection level depends on the keyword registered; 16-character keyword protection level is set within GX-Developer.

** Not for FX3GC

Devices

System specifications	FX1s	FX3s	FX3G/FX3GC/FX3GE	FX3U/FX3UC
Auxiliary relays	512 total, with 384 general (M0 - M383) and 128 latched (M384 - M511)	1,536 total, with 1,408 general (M0 - M383 and M512 - M1535) and 128 EEPROM latched (M384 - M511)	7,680 total, with 384 general (M0 - M383), 1,152 EEPROM latched (M384 - M1535), and 6,144 general/optional latched (M1536 - M7679)	7,680 total, with 500 general (M0 - M499), 524 optional latched (M500 - M1023), and 6,656 latched (M1024 - M7679)
Special auxiliary relays	256 (M8000 - M8255)	512 (M8000 - M8511)		
State relays	128 all latched (S0 - S127)	256 total, with 128 EEPROM latched (S0 - S127) and 128 general (S128 - S255)	4,096 total, with 1,000 EEPROM latched (S0 - S999) and 3,096 general/optional latched (S1000 - S4095)	4,096 total, with 1,000 optional latched (S0 - S999) and 3,096 latched (S1000 - S4095)
Timers	64 total, with 31 points partially switchable between 100 ms and 10 ms (T32 - T62)	169 total, with 69 100 ms (T0 - T62 and T132 - T137), 31 100/10 ms (T32 - T62), and 69 1 ms (T63 - T131)	320 total, with 206 100 ms (T0 - T199 and T250 - T255), 46 10 ms (T200 - T245), and 68 1 ms (T246 - T249 and T256 - T319)	512 total, with 206 100 ms (T0 - T191, T192 - T199 and T250 - T255), 46 10 ms (T200 - T245), and 260 1 ms (T246 - T249 and T256 - T511)
External setpoint entry via potentiometer	2*			—
Counters	32 total (16 bit only), with 16 general (C0 - C15) and 16 latched (C16 - C31)	67 total (16 bit and 32 bit), with 51 general (C0 - C15 and C200 - C234) and 16 EEPROM latched (C16 - C31)	235 total (16 bit and 32 bit), with 36 general (C0 - C15 and C200 - C219) and 199 EEPROM latched (C16 - C199 and C220 - C234)	235 total (16 bit and 32 bit), with 120 general (C0 - C99 and C200 - C219) and 115 latched (C100 - C199 and C220 - C234)
High-speed counters	21 total, with 16 1-phase (C235 - C250) and 5 2-phase (C251 - C255)			
High-speed counter speed	1-phase, 6 points max: 60 kHz / 2 points, 10 kHz / 4 points ; 2-phase, 2 points max: 30 kHz / 1 point, 5 kHz / 1 point		1-phase, 6 points max: 60 kHz / 4 points, 10 kHz / 2 points 2-phase, 3 points max: 30 kHz / 2 points, 5 kHz / 1 point	1-phase, 8 points max: 100 kHz / 6 points 10 kHz / 2 points 2-phase, 2 points max: 50 kHz / 2 points
Real-time clock	Year, month, day, hour, minute, second, day of the week			
Data registers	256 total, with 128 general (D0 - D127) and 128 latched (D128 - D255)	3,000 total, with 2,872 general (D0 - D127 and D256 - D2999) and 128 EEPROM latched (D128 - D255)	8,000 total, with 128 general (D0 - D127), 972 EEPROM latched (D128 - D1099), and 6,900 general/optional latched (D1100 - D7999)	8,000 total, with 200 general (D0 - D199), 312 optional latched (D200 - D511), and 7,488 latched (D512 - D7999)
Extension registers	—		24,000 (R0 - R23999)	32,768 (R0 - R32767)
Extension file registers	—		24,000 (ERO - R23999) internal/optional memory	32,768 (ERO - R32767) optional memory
Index registers	16			
Special data registers	256 (D8000 - D8255)	512 (D8000 - D8511)		
Pointers	64	256	2,048	4,096
Nestings	8			
Interrupt inputs	6			
Constants	16 bit: K: -32,768 to +32,767; H: 0 to FFFF; 32 bit: K: -2,147,483,648 to +2,147,483,647; H: 0 to FFFF FFFF			

* Not for FX3GC

ENVIRONMENTAL & ELECTRICAL SPECIFICATIONS

Environmental Specifications

General specifications	FX1s	FX3s	FX3G/FX3GE	FX3GC	FX3U	FX3UC
Ambient temperature	0 – 55 °C (storage temperature: -20 – +70 °C)		0 – 55 °C (storage temperature: -25 – +75 °C)			
Noise durability	1000 Vpp with noise generator; 1 μs at 30 – 100 Hz					
Dielectric withstand voltage	AC PSU : 1500 V AC, 1 min. / DC PSU : 500 V AC, 1 min.			500 V AC, 1 min.	AC PSU : 1500 V AC, 1 min. / DC PSU : 500 V AC, 1 min. / 500 V AC, 1 min.	
Ambient relative humidity	35 – 85% (non-condensing)		5 – 95% (non-condensing)			
Vibration resistance*			Frequency (Hz)	Acceleration (m/s ²)	Half amplitude (mm)	
	When installed on DIN rail	10 to 57		—	0.035	
		57 to 150		4.9	—	
	When installed directly	10 to 57		—	0.075	
57 to 150		9.8	—			
Shock resistance*	147 m/s ² Acceleration, Action time: 11ms, 3 times by half-sine pulse in each direction X, Y, and Z					
Insulation resistance	500 V DC, 5 MΩ					
Ground	Class D: Grounding resistance 100 Ω or less					
Fuse	AC models: 250 V 1.0 A; DC models: 250 V 0.8 A	250 V 1.0 A	AC models : 250 V 1 A(FX3G-14/24M) (FX3GE-24M) 250 V 3.15 A(FX3G-40/60M) (FX3GE-40M) DC models : 125 V 2.5 A(FX3G-14/24M) 125 V 3.15 A(FX3G-40/60M)	125 V 3.15 A	From FX3U-16M[] to FX3U-32M[]: 250 V 3.15 A; From FX3U-48M[] to FX3U-128M[] and FX3U-32MR/UA1 : 250 V 5 A	125 V 3.15 A
Environment	Avoid environments containing corrosive gases, install in a dust-free location.					
Certifications	Please refer to the Certifications page in this catalog.					

* The criterion is shown IEC 61131-2.

Electrical Specifications

Power Supply Specifications	FX1s	FX3s	FX3G/FX3GE	FX3GC	FX3UC
	AC Powered Models (FX1s-[]M[]-ES(S)/UL)	DC Powered Models (FX1s-[]M[]-DS/-DSS)	AC Powered Models (FX3s-[]M[]/ES/ESS)	AC Powered Models (FX3G(E)-[]M[]/ES/ESS)	DC Powered Models (FX3G-[]M[]/DS/DSS)
Power supply	100–240 V AC (+10 % / -15 %), 50/60 Hz (±10 %)	24 V DC (+10 % / -15 %)	100–240 V AC (+10 % / -15 %), 50/60 Hz (±10 %)	100–240 V AC (+10 % / -15 %), 50/60 Hz	24 V DC (+20% / -15 %)
Inrush current at ON	15 A / 5 ms (at 100 V AC); 25 A / 5 ms (at 200 V AC)	10 A / 0.1 ms (at 24 V DC)	15 A / 5 ms (at 100 V AC); 28 A / 5 ms (at 200 V AC)	30 A / <5 ms (at 100 V AC); 50 A / <5 ms (at 200 V AC)	30 A / <1 ms (at 24 V DC)
Allowable momentary power failure time	10 ms	5 ms	10 ms	10 ms	5 ms
24 V DC service power supply	400 mA	—	400 mA	400 mA	—

Power Supply Specifications	FX3GC	FX3U	FX3UC
	DC Powered Models (FX3GC-[]M[]/D/DSS)	AC Powered Models (FX3U-[]M[]/ES/ESS)	DC Powered Models (FX3UC-[]M[]/D/DSS)
Power supply	24 V DC (+20% / -15 %)	100–240 V AC (+10% / -15%), 50/60 Hz	24 V DC (+20% / -15%) Ripple Voltage (p-p)5% or less
Inrush current at ON	30 A / <0.5 ms (at 24 V DC)	30 A / <5 ms (at 100 V AC); 65 A / <5 ms (at 200 V AC)	35 A / <0.5 ms (at 24 V DC)
Allowable momentary power failure time	5 ms	10 ms	5 ms
24 V DC service power supply	—	FX3U-16/32MR/ES: 400 mA / FX3U-48/64/80/128MR/ES: 600 mA	—

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FX MAIN UNITS

ENVIRONMENTAL & ELECTRICAL SPECIFICATIONS

1

FX MAIN UNITS

Output Specifications	FX1s		FX3s		FX3G/FX3GE		FX3GC	
	Relay Models	Transistor Models	Relay Models	Transistor Models	Relay Models	Transistor Models	Transistor Models	
Switching voltage (Max.)	V	<250 V AC, <30 V DC	5–30 V DC	<240 V AC, <30 V DC	5–30 V DC	<240 V AC, <30 V DC	5–30 V DC	5–30 V DC
Max. output current	- per output	A 2	0.5	2	0.5	2	0.5	0.3 A (Y0–Y1), and 0.1 A (Y2 or higher)
	- per group*	A 8	0.8	8	0.8	8	0.8	0.8
Max. switching current	- inductive load	80 VA	12 W	80 VA	12 W	80 VA	12 W	38.4 W (7.2 W per point for Y0–Y1 and 2.4 W per point for Y2 or higher)
Response time	ms	10	0.2	10	< 0.2 (< 5 μs for Y0,Y1)	10	< 0.2 (< 5 μs for Y0,Y1)****	< 0.2 (< 5 μs for Y0–Y1)
Life of contacts (switching times)		3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA	—	3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—	3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—	—***

Output Specifications	FX3U			FX3UC		
	Relay Models	Transistor Models	Triac Modules	Relay Models	Transistor Models	
Switching voltage (Max.)	V	<240 V AC, <30 V DC	5–30 V DC	85–242 V AC	<240 V AC, <30 V DC	5–30 V DC
Max. output current	- per output	A 2	0.5	0.3	2	0.3 A (Y0–Y3), and 0.1 A (Y4 or higher)
	- per group*	A 8	0.8	0.8	8	0.8
Max. switching current	- inductive load	80 VA	12 W	15 VA/100 VAC 30 VA/200 VAC	80 VA	38.4 W (7.2 W per point for Y0–Y3 and 2.4 W per point for Y4 or higher)
Response time	ms	10	< 0.2 (< 5 μs for Y0–Y2)	< 10	10	< 0.2 (< 5 μs for Y0–Y2)
Life of contacts (switching times)		3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—	—	3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—***

* This limitation applies to the maximum output current for each reference terminal (Common), each serving 1 to 4 relay or transistor outputs. Please observe the reference terminal assignments for group identification.

** Not guaranteed by Mitsubishi Electric.

*** Refer to the specifications of the Terminal Block being used.

**** The 40 and 60 I/O point main units supports 5 μs for Y2.

FX3S

Main Units with 10 – 14 I/O

Specifications	FX3S-10MR/ES	FX3S-10MT/ES	FX3S-10MT/ESS	FX3S-14MR/ES	FX3S-14MT/ES	FX3S-14MT/ESS
Integrated inputs/outputs	10	10	10	14	14	14
Power supply	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC
Integrated inputs	6	6	6	8	8	8
Integrated outputs	4	4	4	6	6	6
Output type	Relay	Transistor (sink)	Transistor (source)	Relay	Transistor (sink)	Transistor (source)
Power consumption	W 19	19	19	19	19	19
Weight	kg 0.30	0.30	0.30	0.30	0.30	0.30
Dimensions (W x H x D)	mm 60 x 90 x 75	60 x 90 x 75	60 x 90 x 75	60 x 90 x 75	60 x 90 x 75	60 x 90 x 75

Main Units with 20 – 30 I/O

Specifications	FX3S-20MR/ES	FX3S-20MT/ES	FX3S-20MT/ESS	FX3S-30MR/ES	FX3S-30MT/ES	FX3S-30MT/ESS
Integrated inputs/outputs	20	20	20	30	30	30
Power supply	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC
Integrated inputs	12	12	12	16	16	16
Integrated outputs	8	8	8	14	14	14
Output type	Relay	Transistor (sink)	Transistor (source)	Relay	Transistor (sink)	Transistor (source)
Power consumption	W 20	20	20	21	21	21
Weight	kg 0.40	0.40	0.40	0.45	0.45	0.45
Dimensions (W x H x D)	mm 75 x 90 x 75	75 x 90 x 75	75 x 90 x 75	100 x 90 x 75	100 x 90 x 75	100 x 90 x 75

FX1S

Main Units with 10 – 14 I/O

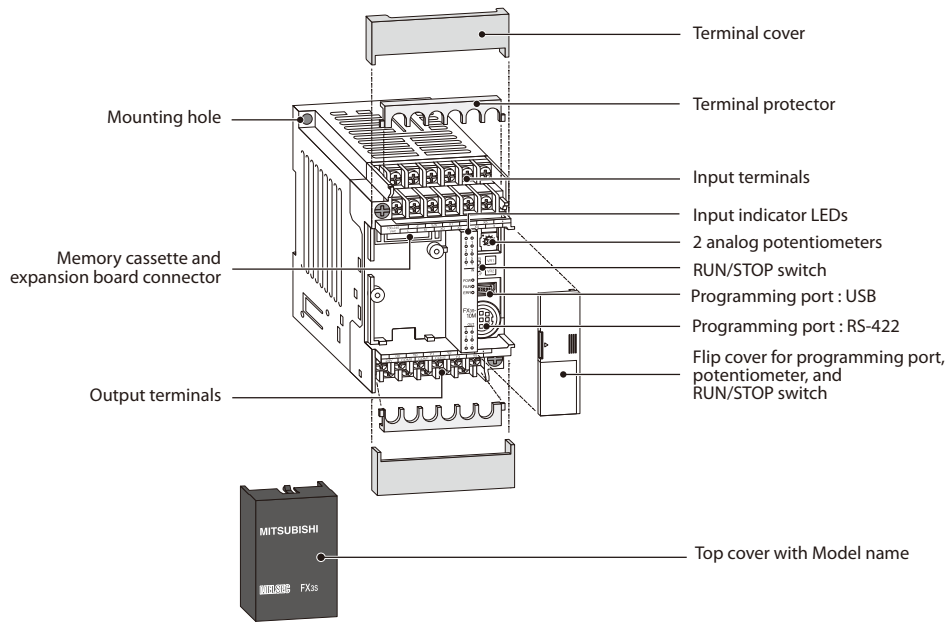
Specifications	FX1S-10 MR-DS	FX1S-10 MR-ES/UL	FX1S-10 MT-DSS	FX1S-10 MT-ESS/UL	FX1S-14 MR-DS	FX1S-14 MR-ES/UL	FX1S-14 MT-DSS	FX1S-14 MT-ESS/UL
Integrated inputs/outputs	10	10	10	10	14	14	14	14
Power supply	24 V DC	100–240 V AC	24 V DC	100–240 V AC	24 V DC	100–240 V AC	24 V DC	100–240 V AC
Integrated inputs	6	6	6	6	8	8	8	8
Integrated outputs	4	4	4	4	6	6	6	6
Output type	Relay	Relay	Transistor (source)	Transistor (source)	Relay	Relay	Transistor (source)	Transistor (source)
Power consumption	W 6	19	6	19	6.5	19	6.5	19
Weight	kg 0.22	0.3	0.22	0.3	0.22	0.3	0.22	0.3
Dimensions (W x H x D)	mm 60 x 90 x 49	60 x 90 x 75	60 x 90 x 49	60 x 90 x 75	60 x 90 x 49	60 x 90 x 75	60 x 90 x 49	60 x 90 x 75

Main Units with 20 – 30 I/O

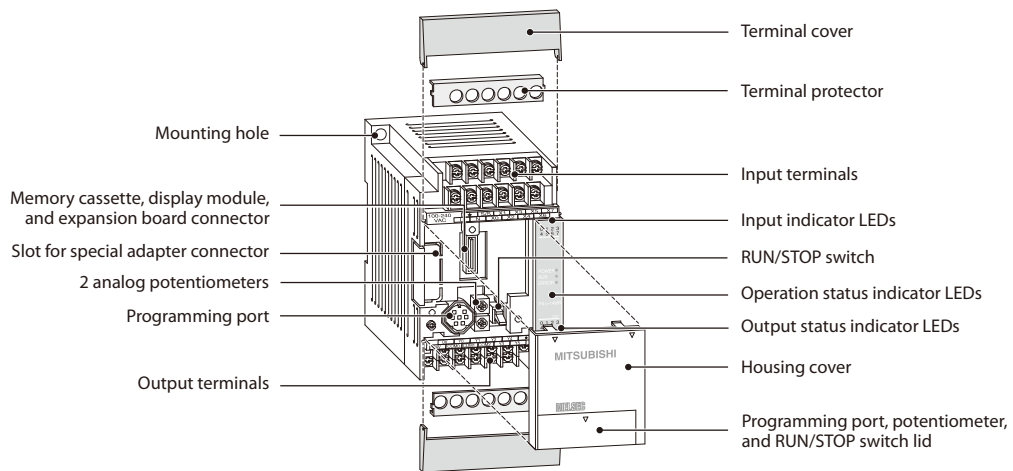
Specifications	FX1S-20 MR-DS	FX1S-20 MR-ES/UL	FX1S-20 MT-DSS	FX1S-20 MT-ESS/UL	FX1S-30 MR-DS	FX1S-30 MR-ES/UL	FX1S-30 MT-DSS	FX1S-30 MT-ESS/UL
Integrated inputs/outputs	20	20	20	20	30	30	30	30
Power supply	24 V DC	100–240 V AC	24 V DC	100–240 V AC	24 V DC	100–240 V AC	24 V DC	100–240 V AC
Integrated inputs	12	12	12	12	16	16	16	16
Integrated outputs	8	8	8	8	14	14	14	14
Output type	Relay	Relay	Transistor (source)	Transistor (source)	Relay	Relay	Transistor (source)	Transistor (source)
Power consumption	W 7	20	7	20	8	21	8	21
Weight	kg 0.3	0.4	0.3	0.4	0.35	0.45	0.35	0.45
Dimensions (W x H x D)	mm 75 x 90 x 49	75 x 90 x 75	75 x 90 x 49	75 x 90 x 75	100 x 90 x 49	100 x 90 x 75	100 x 90 x 49	100 x 90 x 75

DESCRIPTION OF UNIT COMPONENTS

FX3s



FX1s



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FX MAIN UNITS