

Programming and Device Specifications

Model Number	FX1S	FX1N	FX3G	FX3U/FX3UC
Programming				
I/O Points	30(+4 optional)	128(+4 optional)	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. 128 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	8,000 steps EEPROM	32,000 steps EEPROM (internal), exchangeable EEPROM memory cassette	64,000 steps RAM (internal), exchangeable FLROM memory cassette
Instruction Time	0.55 μs or 0.7 μs / contact instruction		0.21 μs or 0.42 μs / contact instruction	0.065 μs / contact instruction
Number of Instructions	27 sequence instructions, 2 step ladder instructions, 85 applied instructions	27 sequence instructions, 2 step ladder instructions, 89 applied instructions	29 sequence instructions, 2 step ladder instructions, 123 applied instructions	29 sequence instructions, 2 step ladder instructions, 210 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 (*1)		2 different keywords, maximum password length 16 characters	8 or 16-character keyword protection with 3 protection levels each (*1)
Devices				
Auxiliary Relays	512 total, with 384 general (M0 – M383) and 128 latched (M384 – M511)	1,536 total, with 384 general (M0 -M383) and 1,152 latched (M384 - M1535)	7,680 total, with 384 general (M0 - M384), 1152 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)	1,000 all latched (S0 - S999)	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 100ms and 10ms (T32 - T62)	256 total, with 206 100ms (T0 - T199 and T250 - T255), 46 10ms (T200 - T245), and 4 1ms (T246-T249)	320 total, with 206 100ms (T0 - T199 and T250 - T255), 46 10ms (T200 - T245), and 68 1ms (T246 - T249 and T256 - T319)	512 total, with 206 100ms (T0 - T191, T192 - T199 and T250 - T255), 46 10ms (T200 - T245), and 260 1ms (T246 - T249 and T256 - T511)
External Setpoint Entry Via Potentiometer	2			0
Counters	32 total (16-bit only), with 16 general (C0-C15) and 16 latched (C16-C31)	235 total (16-bit and 32-bit), with 36 general (C0 - C15 and C200 - C219) and 199 latched (C16 - C199 and C220 - C234)	235 total (16-bit and 32-bit), with 36 general (C0 - C16 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	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 / 2 points, 10 KHz /4 points; 2 phase, 2 points max: 30 kHz / 1 point, 5 kHz /1 point	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 / 4 points, 10 kHz / 2 points 2 phase, 3 points max: 30 kHz / 2 points, 5kHz/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)	8,000 total, with 128 general (D0 - D127) and 7,872 latched (D128 - D7999)	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(ER0-R23999) internal/optional memory	32,768(ER0-R32767) optional memory
Index Registers	16			
Special Data Registers	256 (D8000 - D8255)	256 (D8000 - D8255)	512 (D8000 - D8511)	
Pointers	64	128	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			

Note:

1. 8-character keyword protection level depends on the keyword registered; 16-character keyword protection level is set within GX-Developer

Environmental Specifications

Model Number	FX1S	FX1N	FX3G	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 VAC, 1 min. / DC PSU: 500 VAC, 1 min.		1500 VAC, 1 min.	AC PSU: 1500 VAC, 1 min. / DC PSU: 500 VAC, 1 min.	500 VAC, 1 min.
Ambient Relative Humidity	35 – 85% (non-condensing)		5 – 95% (non-condensing)		
Shock Resistance	Complies to IEC/EN 68-2-27: 15 G (3 times each in 3 directions for 11 ms)	Complies to IEC 68-2-27: 15 G (3 times each in 3 directions for 11 ms)	Complies to IEC 68-2-27: 147 m/s ² (3 times each in 3 directions for 11 ms)	Complies to IEC 68-2-27: 15 G (3 times each in 3 directions for 11 ms)	
Vibration Resistance	Complies to IEC/EN 68-2-6: 1 G (resistance to vibrations from 57 – 150 Hz for 80 minutes along all 3 axes); 0.5 G for DIN rail mounting		Complies to IEC 68-2-6: 9.8m/s ² (resistance to vibrations from 57 – 150 Hz for 80 minutes along all 3 axes); 4.9m/s ² for DIN rail mounting		
Insulation Resistance	500 VDC, 5 MΩ				
Ground	Class D: Grounding resistance 100Ω or less				
Fuse	AC models: 250 V 1.0 A; DC models: 250V 0.8 A	AC units: From FX1N-14M□ to FX1N-24M□: 250 V 1.0 A; From FX1N-40M□ to FX1N-60M□: 250 V 3.15 A / DC units: 125 V 3.15 A	For FX3G-14M□ and FX3G-24M□: 250V 1 A; For FX3G-40M□ and FX3G-60M□: 250V 3.15 A	From FX3U-16M□ to FX3U-32M□ 250V 3.15 A; From FX3U-48M□ to FX3U-128M□: 250V 5 A	125V 3.15A
Environment	Avoid environments containing corrosive gases, install in a dust-free location.				

Electrical Specifications

Power Supply Specifications	FX1S AC Powered Models (FX1S-□M□-ES/UL)	FX1S DC Powered Models (FX1S-□M□-DS/-DSS)	FX1N AC Powered Models (FX3U-□M□/ES/ESS)	FX1N DC Powered Models (FX3U-□M□/DS/DSS)	FX3G	FX3U AC Powered Models (FX3U-□M□ES/ESS)	FX3U DC Powered Models (FX3U-□M□DS/DSS)	FX3UC
Power Supply	100–240 V AC (+10 % / -15 %), 50/60 Hz (±10 %)	24 VDC (+10 % / -15 %)	100–240 VAC (+10 % / -15 %), 50/60 Hz (±10 %)	12–24 VDC (+20 % / -15 %)	100–240 VAC (+10 % / -15 %), 50/60 Hz	100–240 VAC (+10 % / -15 %), 50/60 Hz	24 VDC (+20% / -30 %)	24 VDC (+20% / -15 %) Ripple Voltage (p-p) 5% or less
Inrush Current at ON	15 A / 5 ms (at 100 VAC); 25 A / 5 ms (at 200 VAC)	10 A / 0.1 ms (at 24 VDC)	30 A / 5 ms (at 100 VAC); 50 A / 5 ms (at 200 VAC)	25 A / 1 ms (at 24 VDC); 22 A / 0.3 ms (at 12 VDC)	30 A / <5 ms (at 100 VAC); 50 A / <5 ms (at 200 VAC)	30 A / <5 ms (at 100 VAC); 65 A / <5 ms (at 200 VAC)	35 A / <0.5 ms (at 24 VDC);	30A / < 0.5ms (at 24 VDC)
Allowable Momentary Power Failure Time	10 ms	5 ms	10 ms	5 ms	10 ms	10 ms	5 ms	5 ms
External Service Power Supply (24 VDC)	400 mA	—	400 mA	—	400 mA	FX3U-16/32MR/ES: 400 mA / FX3U-48/64/80/128MR/ES: 600 mA	—	—

Output Specifications		FX1S Relay Models	FX1S Transistor Models	FX1N Relay Models	FX1N Transistor Models	FX3G Relay Models	FX3G Transistor Models	FX3U Relay Models	FX3U Transistor Models	FX3UC Transistor Models
Switching Voltage (Max.) (V)		<250 VAC, <30 VDC	5 – 30 VDC	<240 VAC, <30 VDC	5 – 30 VDC	<240 VAC, <30 VDC	5 – 30 VDC	<240 VAC, <30 VDC	5 – 30 VDC	5 – 30 VDC
Max. Output Current	Per Output (A)	2	0.5	2	0.5	2	0.5	2	0.5	0.3A (Y0 - Y3), and 0.1A (Y4 or higher)
	Per Group (A) (*1)	8	0.8	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	80 VA	12 W	12W (7.2W per point for Y0 - Y3 and 2.4W per point for Y4 or higher)
Response Time (ms)		10	0.2	10	<0.2 (<5 µs for Y0-Y1)	10	< 0.2 (<5µs for Y0, Y1) (*4)	10	< 0.2 (<5µs for Y0, Y2)	< 0.2 (<5µs 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	—	3,000,000 at 20VA; 1,000,000 at 35VA; 200,000 at 80VA (*2)	—	3,000,000 at 20VA; 1,000,000 at 35VA; 200,000 at 80VA (*2)	—	— (*3)

Notes:

- 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 pints main units supports 0.5 micro seconds for Y2.

Main Unit Specifications

FX3U

FX3U Main Units with 16 I/O

Model Number	FX3U-16MR/DS	FX3U-16MR/ES	FX3U-16MT/DSS	FX3U-16MT/DS	FX3U-16MT/ESS	FX3U-16MT/ES
Stocked Item	S	S	S	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	16	16	16	16	16	16
Power Supply	24 VDC	100-240 VAC	24 VDC	24 VDC	100-240 VAC	100-240 VAC
Integrated Inputs	8	8	8	8	8	8
Integrated Outputs	8	8	8	8	8	8
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption W	25	30	25	25	30	30
Weight (kg)	0.60	0.60	0.60	0.60	0.60	0.60
Dimensions (W x H x D) mm	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86

FX3U Main Units with 32 I/O

Model Number	FX3U-32MR/DS	FX3U-32MR/ES	FX3U-32MT/DSS	FX3U-32MT/DS	FX3U-32MT/ESS	FX3U-32MT/ES
Stocked Item	S	S	S	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	32	32	32	32	32	32
Power Supply	24 VDC	100-240 VAC	24 VDC	24 VDC	100-240 VAC	100-240 VAC
Integrated Inputs	16	16	16	16	16	16
Integrated Outputs	16	16	16	16	16	16
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption W	30	35	30	30	35	35
Weight (kg)	0.65	0.65	0.65	0.65	0.65	0.65
Dimensions (W x H x D) mm	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86

FX3U Main Units with 48 I/O

Model Number	FX3U-48MR/DS	FX3U-48MR/ES	FX3U-48MT/DSS	FX3U-48MT/DS	FX3U-48MT/ESS	FX3U-48MT/ES
Stocked Item	S	S	S	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	48	48	48	48	48	48
Power Supply	24 VDC	100-240 VAC	24 VDC	24 VDC	100-240 VAC	100-240 VAC
Integrated Inputs	24	24	24	24	24	24
Integrated Outputs	24	24	24	24	24	24
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption W	35	40	35	35	40	40
Weight (kg)	0.85	0.85	0.85	0.85	0.85	0.85
Dimensions (W x H x D) mm	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86

FX3U Main Units with 64 I/O

Model Number	FX3U-64MR/DS	FX3U-64MR/ES	FX3U-64MT/DSS	FX3U-64MT/DS	FX3U-64MT/ESS	FX3U-64MT/ES
Stocked Item	S	S	S	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	64	64	64	64	64	64
Power Supply	24 VDC	100-240 VAC	24 VDC	24 VDC	100-240 VAC	100-240 VAC
Integrated Inputs	32	32	32	32	32	32
Integrated Outputs	32	32	32	32	32	32
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption W	40	45	40	40	45	45
Weight (kg)	1.0	1.0	1.0	1.0	1.0	1.0
Dimensions (W x H x D) mm	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86

FX3U Main Units with 80 I/O

Model Number	FX3U-80MR/DS	FX3U-80MR/ES	FX3U-80MT/DSS	FX3U-80MT/DS	FX3U-80MT/ESS	FX3U-80MT/ES
Stocked Item	—	S	—	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	80	80	80	80	80	80
Power Supply	24 VDC	100-240 VAC	24 VDC	24 VDC	100-240 VAC	100-240 VAC
Integrated Inputs	40	40	40	40	40	40
Integrated Outputs	40	40	40	40	40	40
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption W	45	50	45	45	50	50
Weight (kg)	1.2	1.2	1.2	1.2	1.2	1.2
Dimensions (W x H x D) mm	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86

FX3U Main Units with 128 I/O

Model Number	FX3U-128MR/ES	FX3U-128MT/ESS	FX3U-128MT/ES
Stocked Item	S	—	—
Rating	UL • cUL • CE		
Integrated Inputs/Outputs	128	128	128
Power Supply	100-240 VAC	100-240 VAC	100-240 VAC
Integrated Inputs	64	64	64
Integrated Outputs	64	64	64
Output Type	Relay	Transistor (Source)	Transistor (Sink)
Power Consumption W	65	65	65
Weight (kg)	1.8	1.8	1.8
Dimensions (W x H x D) mm	350 x 90 x 86	350 x 90 x 86	350 x 90 x 86

FX3UC

FX3UC Main Units with 16 – 96 I/O

Model Number	FX3UC-16MT/D	FX3UC-16MT/DSS	FX3UC-32MT/D	FX3UC-32MT/DSS	FX3UC-64MT/D	FX3UC-64MT/DSS	FX3UC-96MT/D	FX3UC-96MT/DSS
Stocked Item	—	S	—	S	S	—	—	S
Rating	UL • cUL					UL • cUL • CE	UL • cUL	UL • cUL • CE
Integrated Inputs/Outputs	16	16	32	32	64	64	96	96
Integrated Inputs	8	8	16	16	32	32	48	48
Input Type	Sink	Sink / Source	Sink	Sink / Source	Sink	Sink / Source	Sink	Sink / Source
Integrated Outputs	8	8	16	16	32	32	48	48
Output Type	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Power Consumption W	6	6	8	8	11	11	14	14
Weight (kg)	0.2	0.2	0.2	0.2	0.3	0.3	0.35	0.35
Dimensions (W x H x D) mm	34 x 90 x 74	34 x 90 x 74	34 x 90 x 74	34 x 90 x 74	59.7 x 90 x 74	59.7 x 90 x 74	85.4 x 90 x 74	85.4 x 90 x 74

FX3G

FX3G Main Units with 14 – 24 I/O

Model Number	FX3G-14MT/ES	FX3G-14MR/ES	FX3G-14MT/ESS	FX3G-24MT/ES	FX3G-24MR/ES	FX3G-24MT/ESS
Stocked Item	S	S	S	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	14	14	14	24	24	24
Power Supply (V)	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC
Integrated Inputs	8	8	8	14	14	14
Integrated Outputs	6	6	6	10	10	10
Output Type	Transistor (sink)	Relay	Transistor (source)	Transistor (sink)	Relay	Transistor (source)
Power Consumption (W)	31	31	31	32	32	32
Weight (kg)	0.5	0.5	0.5	0.55	0.55	0.55
Dimensions (W x H x D) mm	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86

FX3G Main Units with 40 – 60 I/O

Model Number	FX3G-40MT/ES	FX3G-40MR/ES	FX3G-40MT/ESS	FX3G-60MT/ES	FX3G-60MR/ES	FX3G-60MT/ESS
Stocked Item	S	S	S	S	S	S
Rating	UL • cUL • CE					
Integrated Inputs/Outputs	40	40	40	60	60	60
Power Supply (V)	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC
Integrated Inputs	24	24	24	36	36	36
Integrated Outputs	16	16	16	24	24	24
Output Type	Transistor (sink)	Relay	Transistor (source)	Transistor (sink)	Relay	Transistor (source)
Power Consumption (W)	37	37	37	40	40	40
Weight (kg)	0.7	0.7	0.7	0.85	0.85	0.85
Dimensions (W x H x D) mm	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86

FX1N

FX1N Main Units with 14 – 24 I/O

Model Number	FX1N-14 MR-DS	FX1N-14 MR-ES/UL	FX1N-14 MT-DSS	FX1N-14 MT-ESS/UL	FX1N-24 MR-DS	FX1N-24 MR-ES/UL	FX1N-24 MT-DSS	FX1N-24 MT-ESS/UL	FX1N-24 MT
Stocked Item	S	S	S	S	S	S	S	S	S
Rating	UL • cUL • CE								UL • cUL
Integrated Inputs/Outputs	14	14	14	14	24	24	24	24	24
Power Supply (V)	12 – 24 VDC	100 – 240 VAC	12 – 24 VDC	100 – 240 VAC	12 – 24 VDC	100 – 240 VAC	12 – 24 VDC	100 – 240 VAC	100 – 240 VAC
Integrated Inputs	8	8	8	8	14	14	14	14	14
Integrated Outputs	6	6	6	6	10	10	10	10	10
Output Type	Relay	Relay	Transistor (source)	Transistor (source)	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)
Power Consumption (W)	13	29	13	29	15	30	15	30	30
Weight (kg)	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Dimen. (W x H x D) mm	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75	90 x 90 x 75

FX1N Main Units with 40 – 60 I/O

Model Number	FX1N-40 MR-DS	FX1N-40 MR-ES/UL	FX1N-40 MT-DSS	FX1N-40 MT-ESS/UL	FX1N-40 MT	FX1N-60 MR-DS	FX1N-60 MR-ES/UL	FX1N-60 MT-DSS	FX1N-60 MT-ESS/UL	FX1N-60 MT
Stocked Item	S	S	S	S	S	—	S	S	S	S
Rating	UL • cUL • CE				UL • cUL	UL • cUL • CE				UL • cUL
Integrated Inputs/Outputs	40	40	40	40	40	60	60	60	60	60
Power Supply	12 – 24 VDC	100 – 240 VAC	12 – 24 VDC	100 – 240 VAC	100 – 240 VAC	12 – 24 VDC	100 – 240 VAC	12 – 24 VDC	100 – 240 VAC	100 – 240 VAC
Integrated Inputs	24	24	24	24	24	36	36	36	36	36
Integrated Outputs	16	16	16	16	16	24	24	24	24	24
Output Type	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)
Power Consumption (W)	18	32	18	32	32	20	35	20	35	35
Weight (kg)	0.65	0.65	0.65	0.65	0.65	0.8	0.8	0.8	0.8	0.8
Dimen. (W x H x D) mm	130 x 90 x 75	130 x 90 x 75	130 x 90 x 75	130 x 90 x 75	130 x 90 x 75	175 x 90 x 75	175 x 90 x 75	175 x 90 x 75	175 x 90 x 75	175 x 90 x 75

FX1S

FX1S Main Units with 10 – 14 I/O

Model Number	FX1S-10 MR-DS	FX1S-10 MR-ES/UL	FX1S-10 MT-DSS	FX1S-10 MT-ESS/UL	FX1S-10 MT	FX1S-14 MR-DS	FX1S-14 MR-ES/UL	FX1S-14 MT-DSS	FX1S-14 MT-ESS/UL	FX1S-14 MT
Stocked Item	—	S	S	S	—	S	S	S	S	S
Rating	UL • cUL • CE				UL • cUL	UL • cUL • CE				UL • cUL
Integrated Inputs/Outputs	10	10	10	10	10	14	14	14	14	14
Power Supply	24 VDC	100 – 240 VAC	24 VDC	100 – 240 VAC	100 – 240 VAC	24 VDC	100 – 240 VAC	24 VDC	100 – 240 VAC	100 – 240 VAC
Integrated Inputs	6	6	6	6	6	8	8	8	8	8
Integrated Outputs	4	4	4	4	4	6	6	6	6	6
Output Type	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)
Power Consumption (W)	6	19	6	19	19	6.5	19	6.5	19	19
Weight (kg)	0.22	0.3	0.22	0.3	0.3	0.22	0.3	0.22	0.3	0.3
Dimen. (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 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 75

FX1S Main Units with 20 – 30 I/O

Model Number	FX1S-20 MR-DS	FX1S-20 MR-ES/UL	FX1S-20 MT-DSS	FX1S-20 MT-ESS/UL	FX1S-20 MT	FX1S-30 MR-DS	FX1S-30 MR-ES/UL	FX1S-30 MT-DSS	FX1S-30 MT-ESS/UL	FX1S-30 MT
Stocked Item	S	S	S	S	S	S	S	S	S	S
Rating	UL • cUL • CE				UL • cUL	UL • cUL • CE				UL • cUL
Integrated Inputs/Outputs	20	20	20	20	20	30	30	30	30	30
Power Supply	24 VDC	100 – 240 VAC	24 VDC	100 – 240 VAC	100 – 240 VAC	24 VDC	100 – 240 VAC	24 VDC	100 – 240 VAC	100 – 240 VAC
Integrated Inputs	12	12	12	12	12	16	16	16	16	16
Integrated Outputs	8	8	8	8	8	14	14	14	14	14
Output Type	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)	Relay	Relay	Transistor (source)	Transistor (source)	Transistor (sink)
Power Consumption (W)	7	20	7	20	20	8	21	8	21	21
Weight (kg)	0.3	0.4	0.3	0.4	0.4	0.35	0.45	0.35	0.45	0.45
Dimen. (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	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	100 x 90 x 75