

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 | | | | | | | | |
| 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 |