



FX1N JAPANESE SPECIFICATION UNITS

HARDWARE MANUAL

JY997D07901A

This manual contains safety information, associated manual listings, specifications and terminal layouts and wiring for Japanese specification FX1N PLC main units.

For complete operation, mounting and programming instructions please refer to the FX1N HANDY MANUAL (JY992D87501 JAPANESE ONLY) and PROGRAMMING MANUAL.

These manuals should be read and understood before attempting to install or use the unit.

Guidelines for the Safety of the User and Protection of the FX1N PLC

This manual has been written to be used by trained and competent personnel. The definition of such a person or persons is as follows:

- a) Any engineer who is responsible for the planning, design and construction of automatic equipment using the product associated with this manual, should be of a competent nature, trained and qualified to the local and national standards. These engineers should be fully aware of all aspects of safety with regards to automated equipment.
- b) Any commissioning or service engineer must be of a competent nature, trained and qualified to the local and national standards. These engineers should also be trained in the use and maintenance of the complete product. This includes being completely familiar with all associated documentation for the said product. All maintenance should be carried out in accordance with established safety practices
- c) All operators of the completed equipment should be trained to use that product in a safe and co-ordinated manner in compliance to established safety practices. The operators should also be familiar with documentation which is connected to the actual operation of the completed equipment

Note: The term 'completed equipment' refers to a third party constructed device which contains or uses the product associated with this manual.

Note's on the Symbols Used in this Manual

At various times through out this manual certain symbols will be used to highlight points of information which are intended to ensure the users personal safety and protect the integrity of equipment.



- 1) Indicates that the identified danger could POSSIBLY cause physical and property damage.
- STOP
- 2) Indicates a point of further interest or further explanation.
- Under no circumstances will Mitsubishi Electric be liable or responsible for any consequential damage that may arise as a result of the installation or use of this equipment.
- All examples and diagrams shown in this manual are intended only as an aid to understanding the text, not to guarantee operation. Mitsubishi Electric will accept no responsibility for actual use of the productbased on these illustrative examples.
- Owing to the very great variety in possible application of this equipment, you must satisfy yourself as to its suitability for your specific application.

Further Information Manual Lists

The following manuals are recommended as essential reference material for the correct operation of an FX1N series Programmable Controller

Manual name	Manual No.	Description
FX1N HANDY MANUAL	JY992D87501 (JAPANESE ONLY)	Describes contents related to hardware of world specification FX1N series PLCs such as specifications, wiring and installation.
FX1S, FX1N, FX2N, FX2NC PROGRAMMING MANUAL	JY992D62001 (JAPANESE ONLY)	Programming manual for FX1s, FX1N, FX2N and FX2Nc series Programmable Logic Controllers

Industrial automation

Elincom Group

European Union: www.elinco.eu

Russia: www.elinc.ru

1. Introduction

This manual covers basic hardware details for the FX1N Series Programmable Logic Controller.

MODEL	IN	IPUT	OUTPUT		POWER	DIMENSIONS		WEIGHT				
WIODEL	QTY	TYPE	QTY	TYPE	SUPPLY	mm (inches)			kg (lbs)			
FX1N-24MR	14		10	Relay		90			0.45			
FX1N-24MT	(16)		(16)	Transistor	100-240	(3.6)		75 (3.0)	(0.99)			
FX1N-40MR	24	24V DC	16	Relay	VAC	130 (5.2)	90		0.65 (1.44)			
FX1N-40MT	24	SINK		Transistor	+10% -15% 50/60Hz		(3.5)					
FX1N-60MR	36		24	Relay		175			0.80			
FX1N-60MT	(40)			Transistor		(7.0)			(1.77)			
FX1N-24MR-D	14		10	Relay		90			0.45			
FX1N-24MT-D	(16)					(16)	Transistor	12V DC	(3.6)			(0.99)
FX1N-40MR-D	24	0.4	24V DC	16	Relay	-15%	130	90	75	0.65		
FX1N-40MT-D		SINK	16	Transistor	to 24V DC	(5.2) (3.5)	(3.5)	(3.0)	(1.44)			
FX1N-60MR-D			24	Relay	+20%	175			0.80			
FX1N-60MT-D	(40)		24	Transistor		(7.0)		(1.77)				

1.1 World Specification

Input - Sink/Source	World Spec models: SINK/SOURCE. Japanese models: ALWAYS SINK
Output - Transistor	World Spec models: ALWAYS SOURCE. Japanese models: ALWAYS SINK

2. Specifications

The installation of FX1N products has been designed to be safe and easy. When the products associated with this manual are used as a system or individually, they must be installed in a suitable enclosure. The enclosure should be selected and installed in accordance to the local and national standards.

Item	Description
Operating Temperature	0 to 55 °C (32 to 131 °F)
Storage Temperature	-20 to 70 °C (-4 to 158 °F)
Operating Humidity	35 to 85% Relative Humidity, No condensation
storage Humidity	35 to 90% Relative Humidity, No condensation
Vibration Resistance - Direct Mounting	Conforms to IEC 68-2-6; 10 - 57 Hz: 0.75 mm Half Amplitude 57 - 150 Hz: 9.8 m/s ² Acceleration Sweep Count for X, Y, Z: 10 times (80 min in each direction)

Item	Description
Vibration Resistance - DIN rail Mounting	Conforms to IEC 68-2-6; 10 - 57 Hz: 0.035 mm Half Amplitude 57 -150 Hz: 4.9 m/s ² Acceleration Sweep Count for X, Y, Z: 10 times (80 min in each direction)
Shock Resistance	Conforms to IEC 68-2-27: 147m/s ² Acceleration, Action Time: 11ms 3 times in each direction X, Y, and Z
Noise Immunity	1000 Vp-p, 1microsecond, 30 - 100 Hz, tested by noise simulator
Dielectric Withstand Voltage	AC unit = 1500 V AC > 1 min, tested between all points, terminals and ground DC unit = 500 V AC > 1 min, tested between all points, terminals and ground.
Insulation Resistance	5 M Ω > at 500 V DC, tested between all points, terminals and ground
Grounding	Grounding resistance 100 Ω or less Use a cable of at least 0.2mm ² (AWG24) to ground equipment. Note that ground cable must not be connected to the same ground as power circuits. Grounding is recommended but if a proper ground cannot be provided, the PLC will operate correctly without.

2.1 Power Specifications

AC Powered Units	FX ₁ N-24M	FX1N-40M	FX ₁ N-60M	
Power Supply	100-240V AC +10% -15%, 50-60 Hz			
Max. allowable momentary power failure 10ms; If less than 10ms, PLC continues operation		inues operation		
Fuse (size) rating	250V 1A 250V 3.15A (3A)		15A (3A)	
In-rush current	100V AC - Max. 30A for 5ms 200V AC - Max. 50A for 5ms			
Power Consumption *1	30W	32W	35W	

^{*1} Includes the input current (7 or 5 mA per point)

DC Powered Units	FX1N-24M	FX1N-40M	FX ₁ N-60M	
Power Supply	24V DC + 20% - 12V DC -15% (28.8 ~ 10.2 V DC)			
Max. allowable momentary power failure	5ms; If less than 5ms, PLC continues operation			
Fuse (size) rating	125V 3.15A (3A)			
In-rush current	=	DC - Max. 25A for DC - Max. 22A for 0		
Power Consumption	15W	18W	20W	

2.2 Input Specifications

		FX1N Main unit		FXon, FX2n Extension
		X0 → X7	X10 → ∞	block
Input voltage		24V DC ±10%		
Input current		24V DC, 7mA	24V DC, 5mA	24V DC, 5mA
Lance to a section of the section of	OFF → ON	>4.5mA	>3.5mA	>3.5mA
Input switching current	ON → OFF			
Response time		10ms		
Variable response time		0-15ms		
Circuit isolation		Photocoupler		
Operation indication		LED is lit		

2.3 Output Specifications

Description		Relay Output	Transistor Output	
Switched voltages (resistive load)		≤ 240V AC, ≤ 30V DC	5-30V DC	
Rated current / N points (resistive load)		2A/1 point, 8A/COM	0.5A/1 point, 0.8A/COM	
Max. Inductive	load	80VA, 120/240V AC	12W/24V DC	
Max. lamp load (tungsten load)		100W (1.17A/85V AC, 0.4A/ 250V AC)	1.5W/24V DC	
Minimum load		When supply voltage < 5V DC allow at least 2mA flow		
Response	OFF → ON	10ms	< 0.2ms; < 5μs (Y0,Y1 only)	
time (approx.) ON → OFF		10ms	< 0.2ms (I > 0.2A); <5μs (Y0,Y1 only)	
Circuit isolation		By Relay	PhotoCoupler	
Open circuit current leakage			0.1mA/30V DC	
Operation indication		LED is lit when coil is energized		

3. Installation Notes

The installation of FX1N products has been designed to be safe and easy. If during the installation of these products or associated products concern is felt, please contact a professional electrician who is trained to the local and national standards applicable to the installation site.

FX1N Main PLC units can be either directly or DIN rail mounted. For details of either method, and installation guidelines please refer to the FX1N HANDY MANUAL JY992D87501 (JAPANESE ONLY).

Mounting Cautions

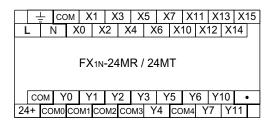


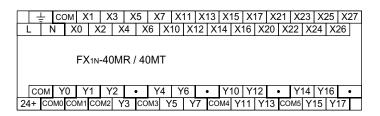
- Units should not be installed in areas subject to the following conditions: excessive or conductive dust, corrosive or flammable gas, moisture or rain, excessive heat, regular impact shocks or excessive vibration.
- Take special care not to allow debris to fall inside the unit during installation e.g. cut wires, shavings etc. Once installation is complete remove the protective paper band, to prevent overheating.

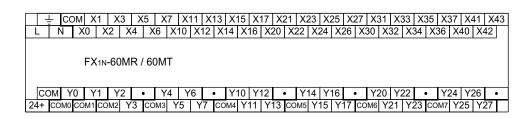
4. Terminal Layouts

The following selection of terminal layouts are taken from the FX1N product range. Note: All layouts are diagrammatic and are only intended to aid the creation of wiring diagrams.

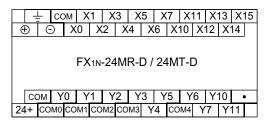
4.1 AC Powered Main Units

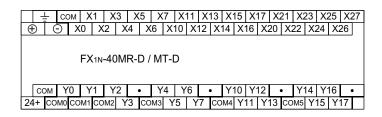


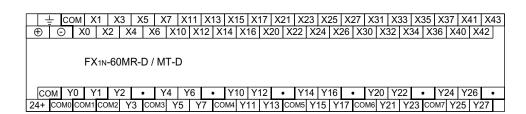




4.2 DC Powered Main Units







5. Example Wiring

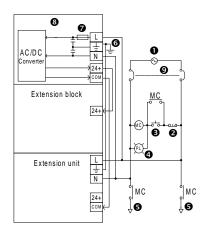
If during the wiring of these products or associated products concern is felt, please contact a professional electrician who is trained in the local and national standards applicable to the installation site.

Wiring cautions

- Do not run input signals in the same multicore cable as output signals or allow them to share the same wire.
- Do not lay I/O signal cables next to power cables or allow them to share the same trunking duct. Low voltage cables should be reliably separated or insulated with regard to high voltage cabling.
- Where I/O signal lines are used over an extended distance consideration for voltage drop and noise interference should be made.
- Always ensure that mounted units and blocks are kept as far as possible from high-voltage cables, high-voltage equipment and power equipment.

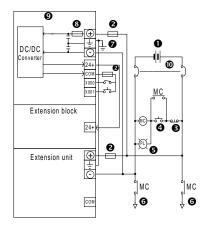
Both Japanese and World Specification Extension blocks/units and special function blocks can be used with these main units.

5.1 AC Power Supply



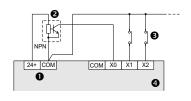
0	Power supply 100-240V AC +10% -15% 50-60Hz
0	Emergency stop
€	Power supply switch
4	Power ON pilot indicator
6	Power supply for loads
0	Ground
0	Fuse
8	Main unit
0	Breaker

5.2 DC Power Supply



0	Power supply 12-24V DC +20% -15% 20.4-28.8V DC when using extension unit.
0	Circuit protector or fuse
€	Emergency stop
4	Power supply switch
6	Power ON pilot indicator
6	Power supply for loads
0	Ground
8	Fuse
Ø	Main unit
•	Breaker

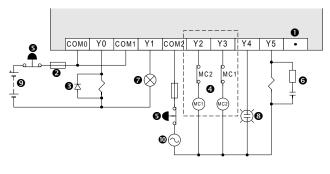
5.3 Input



0	AC Model - Service supply DC Model - Input circuit power supply
0	NPN Sensor
€	Input Device Contact
4	Main unit

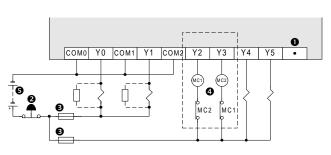
Note

- When using a DC powered unit, the input circuit power supply should be used. If an
 external 24V DC supply is used, the FX1N will not operate correctly.
- · Japanese specification models are ALWAYS SINK input



Typical Relay

0	Do not use this terminal		
0	Fuse		
€	Surge absorbing Diode		
4	External Mechanical Interlock		
6	Emergency Stop		
Noise Suppressor 0.1μF capacitor + 100-200Ω res			
0	Valve		
8	Incandescent Lamp		
0	DC Power Supply		
0	AC Power Supply		



Japanese model Transistor

0	Do not use this terminal
0	Emergency Stop
€	Fuse
4	External Mechanical Interlock
6	DC Power Supply

Additional information

Additional information regarding:

- Product Outline
- World Specification Extension Units / Blocks and Special Function Blocks
- · Configuration Schematics
- Current Consumption and Rules of Expansion
- · Back up Data procedure and details
- · Diagnostic information, Instruction and Device lists

Can be found in the FX1N HANDY MANUAL (JY992D87501 JAPANESE ONLY). It is strongly recommended that this manual is read and understood before the use or configuration of this product.

Manual number: JY997D07901

Manual revision: A

Date : November 2002



HEAD OFFICE : MITSUBISHI DENKI BLDG MARUNOUTI TOKYO 100-8310 TELEX : J24532 CABLE MELCO TOKYO HIMEJI WORKS : 840, CHIYODA CHO, HIMEJI, JAPAN





FX_{1N} JAPANESE SPECIFICATION UNITS HARDWARE MANUAL

JY997D07901A

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FX _{1N} HANDY MANUAL	JY992D87501 (JAPANESE ONLY)	Describes contents related to hardware of world specification FX1N series PLCs such as specifications, wiring and installation.
FX1S, FX1N, FX2N, FX2NC PROGRAMMING MANUAL	JY992D62001 (JAPANESE ONLY)	Programming manual for FX1S, FX1N, FX2N and FX2Nc series Programmable Logic Controllers

1. Introduction

This manual covers basic hardware details for the FX1N Series Programmable Logic Controller.

MODEL	IN	IPUT	C	UTPUT	POWER	DIN	IENSIC	NS	WEIGHT
MODEL	QTY	TYPE	QTY TYPE		SUPPLY	mm (inches)			kg (lbs)
FX ₁ N-24MR	14		10	Relay		90			0.45
FX ₁ N-24MT	(16)		(16)	Transistor	100-240	(3.6)			(0.99)
FX ₁ N-40MR	24	24V DC	16	Relay	VAC +10%	1 130 1 90		75	0.65
FX ₁ N-40MT	24	SINK	10	Transistor	-15%	(5.2)	(3.5)	(3.0)	(1.44)
FX1N-60MR	36		24	Relay	50/60Hz	175			0.80
FX1N-60MT	(40)		24	Transistor		(7.0)			(1.77)
FX1N-24MR-D	14		10	Relay		90			0.45
FX1N-24MT-D	(16)		(16)	Transistor	12V DC	(3.6)		75	(0.99)
FX1N-40MR-D	24	24V DC	16	Relay	-15%	130	90		0.65
FX ₁ N-40MT-D	24	SINK	10	Transistor	to (5.2) (3.5)		(3.5)	(3.0)	(1.44)
FX1N-60MR-D	36		24	Relay	+20%	175			0.80
FX1N-60MT-D	(40)		24	Transistor		(7.0)			(1.77)

1.1 World Specification

- 1	=	World Spec models: SINK/SOURCE. Japanese models: ALWAYS SINK
	Output - Transistor	World Spec models: ALWAYS SOURCE. Japanese models: ALWAYS SINK

2. Specifications

The installation of FX1N products has been designed to be safe and easy. When the products associated with this manual are used as a system or individually, they must be installed in a suitable enclosure. The enclosure should be selected and installed in accordance to the local and national standards.

Item	Description				
Operating Temperature	0 to 55 °C (32 to 131 °F)				
Storage Temperature	-20 to 70 °C (-4 to 158 °F)				
Operating Humidity	35 to 85% Relative Humidity, No condensation				
storage Humidity	35 to 90% Relative Humidity, No condensation				
Vibration Resistance - Direct Mounting	Conforms to IEC 68-2-6; 10 - 57 Hz: 0.75 mm Half Amplitude 57 - 150 Hz: 9.8 m/s ² Acceleration Sweep Count for X, Y, Z: 10 times (80 min in each direction)				

Item	Description			
Vibration Resistance - DIN rail Mounting	Conforms to IEC 68-2-6; 10 - 57 Hz: 0.035 mm Half Amplitude 57 -150 Hz: 4.9 m/s ² Acceleration Sweep Count for X, Y, Z: 10 times (80 min in each direction)			
Shock Resistance	Conforms to IEC 68-2-27: 147m/s ² Acceleration, Action Time: 11ms 3 times in each direction X, Y, and Z			
Noise Immunity	1000 Vp-p, 1microsecond, 30 - 100 Hz, tested by noise simulator			
Dielectric Withstand Voltage	AC unit = 1500 V AC > 1 min, tested between all points, terminals and ground DC unit = 500 V AC > 1 min, tested between all points, terminals and ground.			
Insulation Resistance	5 M Ω > at 500 V DC, tested between all points, terminals and ground			
Grounding	Grounding resistance 100 Ω or less Use a cable of at least 0.2mm ² (AWG24) to ground equipment. Note that ground cable must not be connected to the same ground as power circuits. Grounding is recommended but if a proper ground cannot be provided, the PLC will operate correctly without.			

2.1 Power Specifications

AC Powered Units	FX1N-24M FX1N-40M FX1N-60I					
Power Supply	100-240	100-240V AC +10% -15%, 50-60 Hz				
Max. allowable momentary power failure	10ms; If less than 10ms, PLC continues operation					
Fuse (size) rating	250V 1A	250V 3.15A (3A)				
In-rush current		IV AC - Max. 30A for 5ms IV AC - Max. 50A for 5ms				
Power Consumption *1	30W	32W 35W				

*1 Includes the input current (7 or 5 mA per point)

DC Powered Units	FX1n-24M FX1n-40M FX1n-60				
Power Supply 24V DC + 20% - 12V DC -15% (28.8 ~ 10.2					
Max. allowable momentary power failure	5ms; If less than 5ms, PLC continues operation				
Fuse (size) rating	125V 3.15A (3A)				
In-rush current	= : :	DC - Max. 25A for DC - Max. 22A for 0			
Power Consumption	15W 18W 20\				

2.2 Input Specifications

		FX1N M	FX _{0N} , FX _{2N} Extension			
		X0 → X7	X10 → ∞	block		
Input voltage		24V DC ±10%				
Input current		24V DC, 7mA	24V DC, 5mA	24V DC, 5mA		
lanut quitabing queront	OFF → ON	>4.5mA	>3.5mA	>3.5mA		
Input switching current	ON → OFF					
Response time		10ms				
Variable response time		0-15ms				
Circuit isolation		Photocoupler				
Operation indication		LED is lit				

2.3 Output Specifications

Description		Relay Output	Transistor Output		
Switched voltages (resistive load)		≤ 240V AC, ≤ 30V DC	5-30V DC		
Rated current / (resistive load)	•	2A/1 point, 8A/COM	0.5A/1 point, 0.8A/COM		
Max. Inductive	load	80VA, 120/240V AC	12W/24V DC		
Max. lamp load (tungsten load)		100W (1.17A/85V AC, 0.4A/ 250V AC)	1.5W/24V DC		
Minimum load		When supply voltage < 5V DC allow at least 2mA flow			
Response	OFF → ON	10ms	< 0.2ms; < 5μs (Y0,Y1 only)		
time (approx.)	ON → OFF	10ms	< 0.2ms (I > 0.2A); <5μs (Y0,Y1 only)		
Circuit isolation		By Relay	PhotoCoupler		
Open circuit current leakage			0.1mA/30V DC		
Operation indic	ation	LED i	s lit when coil is energized		

3. Installation Notes

The installation of FX1N products has been designed to be safe and easy. If during the installation of these products or associated products concern is felt, please contact a professional electrician who is trained to the local and national standards applicable to the installation site.

FX1N Main PLC units can be either directly or DIN rail mounted. For details of either method, and installation guidelines please refer to the FX1N HANDY MANUAL JY992D87501 (JAPANESE ONLY).

Mounting Cautions

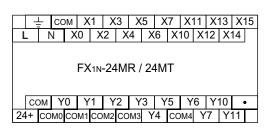


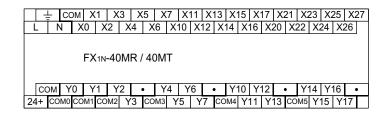
- Units should not be installed in areas subject to the following conditions: excessive or conductive dust, corrosive or flammable gas, moisture or rain, excessive heat, regular impact shocks or excessive vibration.
- Take special care not to allow debris to fall inside the unit during installation e.g. cut wires, shavings etc. Once installation is complete remove the protective paper band, to prevent overheating.

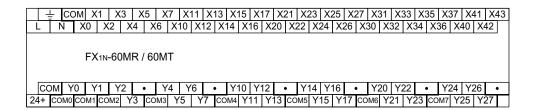
4. Terminal Layouts

The following selection of terminal layouts are taken from the FX1N product range. Note: All layouts are diagrammatic and are only intended to aid the creation of wiring diagrams.

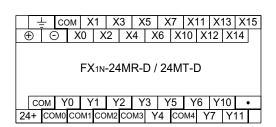
4.1 AC Powered Main Units

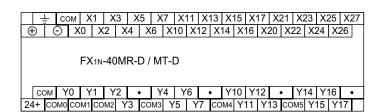






4.2 DC Powered Main Units





- C	OM X1	X3 X5	X7 X ²	11 X13 X	(15 X17	X21 X23	3 X25 X2	7 X31 X3	33 X35 X	37 X41 X43
⊕ ⊙	X0 X2	X4	X6 X10	X12 X14	X16 X2	0 X22 X	(24 X26	X30 X32	X34 X36	X40 X42
FX _{1N} -60MR-D / MT-D										
COM '	Y0 Y1	Y2 •	Y4 Y	6 • Y	/10 Y12	• Y14	Y16 •	Y20 Y2	22 • Y2	24 Y26 •
24+ COM	0 COM1 COM	2 Y3 C	:ОМ3 Y5	Ү7 сом	4 Y11 Y1	3 COM5 \	/15 Y17	сом6 Ү21	Y23 COM7	Y25 Y27

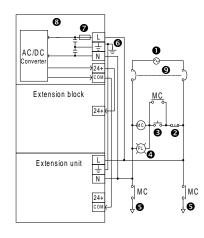
5. Example Wiring

If during the wiring of these products or associated products concern is felt, please contact a professional electrician who is trained in the local and national standards applicable to the installation site.

- Do not run input signals in the same multicore cable as output signals or allow them to
- Do not lay I/O signal cables next to power cables or allow them to share the same trunking duct. Low voltage cables should be reliably separated or insulated with regard to high
- Where I/O signal lines are used over an extended distance consideration for voltage drop and noise interference should be made.
- · Always ensure that mounted units and blocks are kept as far as possible from high-voltage cables, high-voltage equipment and power equipment.

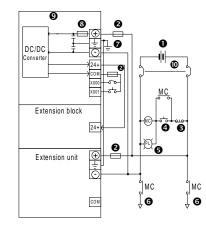
Both Japanese and World Specification Extension blocks/units and special function blocks can be used with these main units.

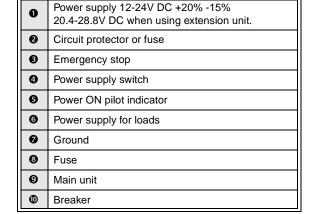
5.1 AC Power Supply



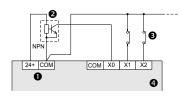
0	Power supply 100-240V AC +10% -15% 50-60Hz		
0	Emergency stop		
€	Power supply switch		
4	Power ON pilot indicator		
6	Power supply for loads		
6	Ground		
0	Fuse		
8	Main unit		
0	Breaker		

5.2 DC Power Supply





5.3 Input

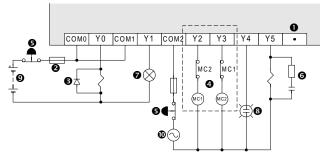


	0	AC Model - Service supply DC Model - Input circuit power supply
	0	NPN Sensor
	€	Input Device Contact
Main unit		Main unit

Note

- · When using a DC powered unit, the input circuit power supply should be used. If an external 24V DC supply is used, the FX1N will not operate correctly.
- Japanese specification models are ALWAYS SINK input

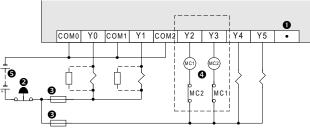
5.4 Output



Typical Relay

	0	Do not use this terminal
	0	Fuse
	€	Surge absorbing Diode
	4	External Mechanical Interlock
	6	Emergency Stop
	6	Noise Suppressor $0.1\mu F$ capacitor + $100\text{-}200\Omega$ resistor Contactor
	0	Valve
	8	Incandescent Lamp
	9	DC Power Supply
	0	AC Power Supply

Japanese model Transistor



Do not use this terminal **Emergency Stop** € Fuse 0 External Mechanical Interlock DC Power Supply

Additional information

Additional information regarding:

- Product Outline
- World Specification Extension Units / Blocks and Special Function Blocks
- Configuration Schematics
- Current Consumption and Rules of Expansion
- · Back up Data procedure and details
- Diagnostic information, Instruction and Device lists

Can be found in the FX1N HANDY MANUAL (JY992D87501 JAPANESE ONLY). It is strongly recommended that this manual is read and understood before the use or configuration of this product.

Manual number: JY997D07901

Manual revision: A

Date : November 2002

MITSUBISHI ELECTRIC CORPORATION

 $\mbox{HEAD OFFICE} \quad : \mbox{MITSUBISHI DENKI BLDG MARUNOUTI TOKYO 100-8310} \qquad \mbox{TELEX} : \mbox{J24532 CABLE MELCO TOKYO HIMEJI WORKS} : \mbox{840, CHIYODA CHO, HIMEJI, JAPAN}$