Issued by:Mitsubishi Electric Corporation-Himeji Works
Document issue:**Ver A,03/14**
Relevant Models: **MELSEC-F series**

No. HIME-T-P-0128

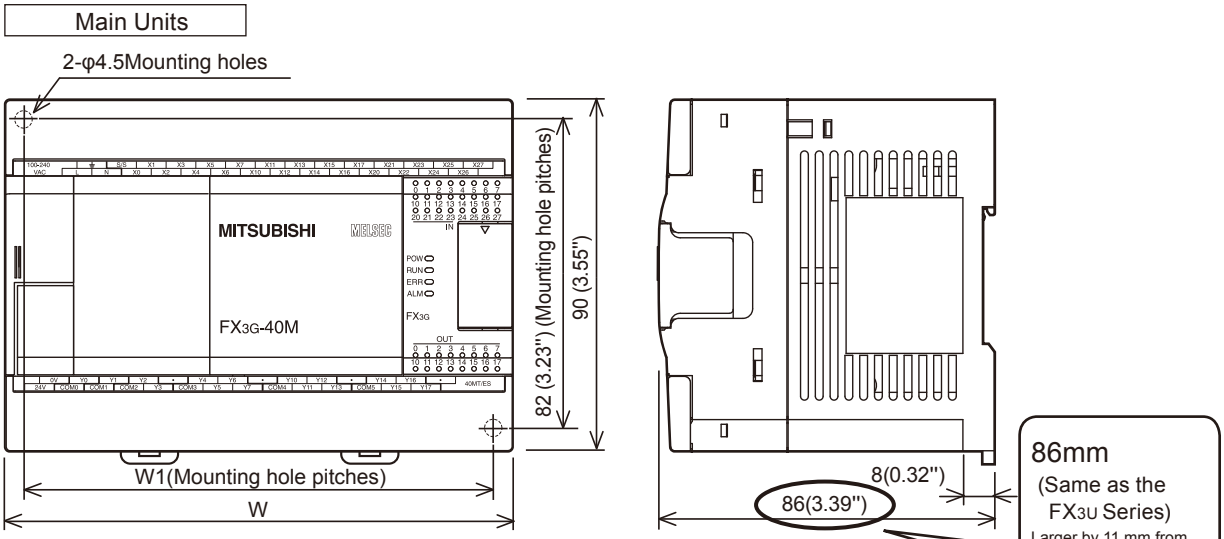
Databank-Technical Bulletin

Cautions on replacing the FX1N Series with the FX3G Series

Thank you very much for using Mitsubishi Micro Programmable Controller MELSEC-F Series.
With the launch of the FX3G Series, we would like to inform your company of cautions on replacing the FX1N Series with the FX3G Series.

1. Caution on outside dimensions

The depth is changed from the FX1N Series.



Series	W: mm (inches)	W1: mm (inches) Direct mounting hole pitches	MASS (Weight): kg (lbs)
FX3G-14M□/□□□	90(3.55'')	82(3.23'')	0.50(1.10lbs)
FX3G-24M□/□□□	90(3.55'')	82(3.23'')	0.55(1.21lbs)
FX3G-40M□/□□□	130(5.12'')	122(4.81'')	0.70(1.54lbs)
FX3G-60M□/□□□	175(6.89'')	167(6.58'')	0.85(1.87lbs)

Unit:mm(inches)

2. Power Supply(DC power supply type)

	FX1N	FX3G
Rated voltage	DC12-24V	DC24V

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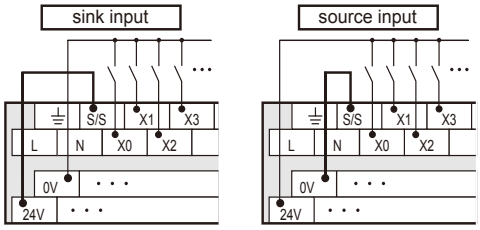
3. Caution on input wiring

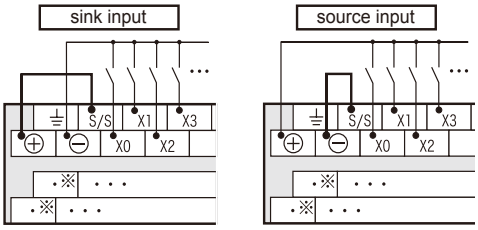
External wiring to the S/S terminal is required because inputs in the FX3G PLC can be used either for sink inputs or source inputs.

Inputs in the FX3G PLC can be used either for sink inputs or source inputs in accordance with the external wiring. (Refer to the figure below.)
Wiring for the FX1N series and FX3G series is the same. Make sure to perform wiring to the S/S terminal. Refer to the "FX3G Series Programmable Controllers Hardware Manual" packed together with the FX3G PLC for details.

[AC power supply type input wiring]



[DC power supply type input wiring]



* Do not perform wiring to the [▪] terminal.

4. Caution on backed-up devices

The table below shows the range of battery latched devices (devices backed up against power interruption) and the backup range available when the optional battery is mounted.

Item	Device	FX1N	FX3G
Auxiliary relay	M0-M383	General (without backup function)	
	M384-M511	EEPROM keep	
	M512-M1535	Backed up by capacitor	EEPROM keep
	M1536-M7679	None	General (Backup function can be set when the optional battery is used.)
State	S0-S127	EEPROM keep	
	S128-S999	Backed up by capacitor	EEPROM keep
	S1000-S4095	None	General (Backup function can be set when the optional battery is used.)
Timer (on-delay timer)	T0-T199 (100ms)	General (without backup function)	
	T200-T245 (10ms)	General (without backup function)	
	T246-T249 (1ms)	Backed up by capacitor	EEPROM keep
	T250-T255 (100ms)	Backed up by capacitor	EEPROM keep
	T256-T319 (1ms)	None	General (without backup function)
Counter	C0-C15 (16 bits)	General (without backup function)	
	C16-C31 (16 bits)	EEPROM keep	
	C32-C199 (16 bits)	Backed up by capacitor	EEPROM keep
	C200-C219 (32 bits)	General (without backup function)	
	C220-C234 (32 bits)	Backed up by capacitor	EEPROM keep
	C235-C255 (32 bits, high speed)	EEPROM keep	
Data register	D0-D127	General (without backup function)	
	D128-D255	EEPROM keep	
	D256-D1099	Backed up by capacitor	EEPROM keep
	D1100-D7999	Backed up by capacitor	General (Backup function can be set when the optional battery is used.)
	(D1000-D7999) File register	EEPROM keep	
Extension register	R0-R23999	None	General (Backup function can be set when the optional battery is used.)
	ER0-ER23999	None	EEPROM keep

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Revised History

Date	Revision	Description
3/2014	A	First Edition