

Production Discontinuation of MIL Connector Type CC-Link IE Field Network Remote I/O Modules

■Date of Issue

May 2023

■Relevant Models

NZ2GFCM1-16D, NZ2GFCM1-16DE, NZ2GFCM1-16T, NZ2GFCM1-16TE

Thank you for your continued support of Mitsubishi Electric programmable controllers.

This technical bulletin informs you that production of the following CC-Link remote I/O modules will be discontinued.

1 MODELS TO BE DISCONTINUED

Product	Model
MIL connector type CC-Link IE Field Network remote I/O module	NZ2GFCM1-16D
	NZ2GFCM1-16DE
	NZ2GFCM1-16T
	NZ2GFCM1-16TE

2 SCHEDULE

Transition to made-to-order: October 31, 2023

Order acceptance: Until November 30, 2023

Production discontinuation: December 29, 2023

3 REASON FOR DISCONTINUATION

Some parts of the above products are now obsolete due to discontinuation, and we will have difficulty to maintain our production system.

4 REPAIR SUPPORT

Repair support period: Until December 29, 2030 (for seven years after the discontinuation of production)

FA-A-0404-A

5 ALTERNATIVE MODELS

Model to be discontinued			Alternative model		
Product	Model	Remarks	Product	Model	Remarks
MIL connector type CC-Link IE Field Network remote I/O module	NZ2GFCM1-16D	DC input module Positive common type	Screw terminal block type CC-Link IE TSN remote I/O module	NZ2GN2B1-16D	DC input module Positive/negative common shared type
			Spring clamp terminal block type CC-Link IE TSN remote I/O module	NZ2GN2S1-16D	
	NZ2GFCM1-16DE	DC input module Negative common type	Screw terminal block type CC-Link IE TSN remote I/O module	NZ2GN2B1-16D	
			Spring clamp terminal block type CC-Link IE TSN remote I/O module	NZ2GN2S1-16D	
	NZ2GFCM1-16T	Transistor output module Sink type	Screw terminal block type CC-Link IE TSN remote I/O module	NZ2GN2B1-16T	Transistor output module Sink type
			Spring clamp terminal block type CC-Link IE TSN remote I/O module	NZ2GN2S1-16T	
	NZ2GFCM1-16TE	Transistor output module Source type	Screw terminal block type CC-Link IE TSN remote I/O module	NZ2GN2B1-16TE	Transistor output module Source type
			Spring clamp terminal block type CC-Link IE TSN remote I/O module	NZ2GN2S1-16TE	

FA-A-0404-A

6 SPECIFICATIONS COMPARISON BETWEEN THE DISCONTINUED AND ALTERNATIVE MODELS

6.1 Main Input Modules

NZ2GFCM1-16D

○: Compatible, ×: Not compatible

Item	Model to be discontinued	Alternative model		Compatibility	Influences by replacement
	NZ2GFCM1-16D	NZ2GN2B1-16D	NZ2GN2S1-16D		
Connector specifications	MIL connector	Screw terminal block	Spring clamp terminal block	×	Connector specifications differ. A screw terminal block or a spring clamp terminal block should be required.
Power supply	Positive common input	Positive/negative common shared type		○	Alternative models are the positive/negative common shared type, so you can use them with the same power supply specifications.
ON voltage/ON current	17VDC or higher/ 3mA or higher	11VDC or higher/4mA or higher		○	The ON range will be wider, which has no influence.
OFF voltage/OFF current	5VDC or lower/ 1.5mA or lower	5VDC or lower/1.5mA or lower		○	
CC-Link communication	CC-Link IE Field Network	CC-Link IE Field Network, CC-Link IE TSN		○	Alternative models can be used with either CC-Link IE Field Network or CC-Link IE TSN, therefore use them in the CC-Link IE Field Network communication mode.

NZ2GFCM1-16DE

○: Compatible, ×: Not compatible

Item	Model to be discontinued	Alternative model		Compatibility	Influences by replacement
	NZ2GFCM1-16DE	NZ2GN2B1-16D	NZ2GN2S1-16D		
Connector specifications	MIL connector	Screw terminal block	Spring clamp terminal block	×	Connector specifications differ. A screw terminal block or a spring clamp terminal block should be required.
Power supply	Negative common input	Positive/negative common shared type		○	Alternative models are the positive/negative common shared type, so you can use them with the same power supply specifications.
ON voltage/ON current	17VDC or higher/ 3mA or higher	11VDC or higher/4mA or higher		○	The ON range will be wider, which has no influence.
OFF voltage/OFF current	5VDC or lower/ 1.5mA or lower	5VDC or lower/1.5mA or lower		○	
CC-Link communication	CC-Link IE Field Network	CC-Link IE Field Network, CC-Link IE TSN		○	Alternative models can be used with either CC-Link IE Field Network or CC-Link IE TSN, therefore use them in the CC-Link IE Field Network communication mode.

6.2 Main Output Modules

NZ2GFCM1-16T

○: Compatible, △: Some changes, ×: Not compatible

Item	Model to be discontinued		Alternative model		Compatibility	Influences by replacement
	NZ2GFCM1-16T	NZ2GN2B1-16T	NZ2GN2S1-16T			
Connector specifications	MIL connector	Screw terminal block	Spring clamp terminal block		×	Connector specifications differ. A screw terminal block or a spring clamp terminal block should be required.
Response time	OFF → ON	0.5ms or less	0.1ms or less		△	Alternative models become easy to be affected by noise due to shorter response time. Therefore, lay input signal lines away from the main circuit line, high voltage lines, and load cables other than programmable controllers.
	ON → OFF	1.5ms or less	0.8ms or less		△	
CC-Link communication	CC-Link IE Field Network	CC-Link IE Field Network, CC-Link IE TSN			○	Alternative models can be used with either CC-Link IE Field Network or CC-Link IE TSN, therefore use them in the CC-Link IE Field Network communication mode.

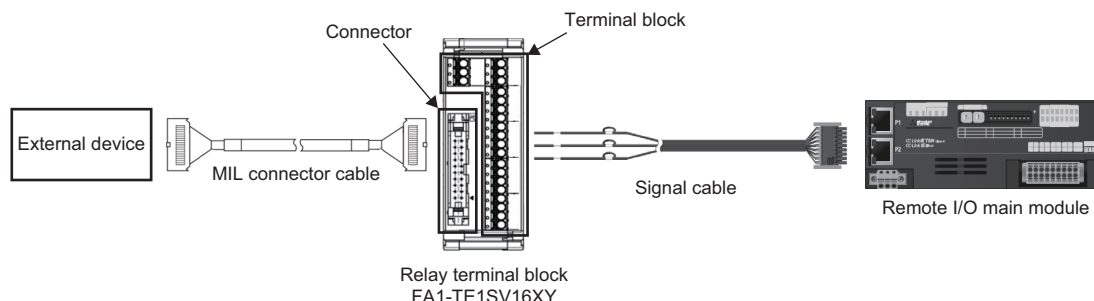
NZ2GFCM1-16TE

○: Compatible, △: Some changes, ×: Not compatible

Item	Model to be discontinued		Alternative model		Compatibility	Influences by replacement
	NZ2GFCM1-16TE	NZ2GN2B1-16TE	NZ2GN2S1-16TE			
Connector specifications	MIL connector	Screw terminal block	Spring clamp terminal block		×	Connector specifications differ. A screw terminal block or a spring clamp terminal block should be required.
Response time	OFF → ON	0.5ms or less	0.1ms or less		△	Alternative models become easy to be affected by noise due to shorter response time. Therefore, lay input signal lines away from the main circuit line, high voltage lines, and load cables other than programmable controllers.
	ON → OFF	1.5ms or less	0.8ms or less		△	
CC-Link communication	CC-Link IE Field Network	CC-Link IE Field Network, CC-Link IE TSN			○	Alternative models can be used with either CC-Link IE Field Network or CC-Link IE TSN, therefore use them in the CC-Link IE Field Network communication mode.

7 CHANGE OF WIRING

The following shows an example of wiring when Mitsubishi Electric Engineering products are used.



Signal wiring should be performed according to the specifications of the connection-destination device such as the remote I/O main module or relay terminal block.

Relay terminal block

Relay terminal blocks that relay between the connector and spring clamp terminal block are sold by Mitsubishi Electric Engineering Co., Ltd.

For the internal wiring of relay terminal blocks, refer to the manual of the product used.

Model	Supplier	Connector	Terminal block	Remarks
FA1-TE1SV16XY	Mitsubishi Electric Engineering Co., Ltd.	MIL connector (20-pin)	Spring clamp terminal block	Applicable wire: 0.2 to 1.5mm ² (AWG24 to 16) Stripped cable length: 8 to 9mm

Signal cable

Signal cables with the wire size applicable to the remote I/O main module can be used.

Cables with a spring clamp terminal block are sold by Mitsubishi Electric Engineering Co., Ltd. Please refer to those products when using a spring clamp terminal block.

Model	Supplier	Programmable controller connector	Relay terminal block connector	Cable length	Remarks
FA1-CB3L03SQ10E1F18	Mitsubishi Electric Engineering Co., Ltd.	18-pin connector with spring clamp terminal block	Discrete cable	1m	0.3mm ² , 8A, 18-pin
FA1-CB3L03SQ20E1F18				2m	
FA1-CB3L03SQ30E1F18				3m	
FA1-CB3L07SQ10E1F18				1m	0.7mm ² , 8A, 18-pin
FA1-CB3L07SQ20E1F18				2m	
FA1-CB3L07SQ30E1F18				3m	

For inquiries and orders regarding the above cables, please contact your local Mitsubishi Electric Engineering office.

For contact information, please check the website below.

www.mee.co.jp/sales/fa/meefan

8 RECOMMENDABLE PROPOSALS

Please purchase the applicable model by the order acceptance deadline or consider replacing with an alternative model.

For the method for replacing a CC-Link IE Field Network remote I/O module with a CC-Link IE TSN remote I/O module (CC-Link IE Field Network communication mode), refer to the following.

Method for Replacing CC-Link IE Field Network Remote I/O Module with CC-Link IE TSN Remote I/O Module (CC-Link IE Field Network Communication Mode) (FA-A-0333)

FA-A-0404-A

REVISIONS

Version	Date of Issue	Revision
A	May 2023	First edition