

TECHNICAL BULLETIN

[1/9]

FA-A-0387-A

Production Discontinuation of CC-Link IE Field Network Waterproof/Dustproof Remote I/O Modules

■Date of Issue

September 2022

■Relevant Models

NZ2GF12A4-16D, NZ2GF12A4-16DE, NZ2GF12A2-16T, NZ2GF12A2-16TE, NZ2GF12A42-16DT, NZ2GF12A42-16DTE, NZ2GFS12A2-16DTE, NZ2GFS12A2-14DT

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

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

1 MODELS TO BE DISCONTINUED

Product	Model	Туре
CC-Link IE Field Network waterproof/dustproof remote I/O module	NZ2GF12A4-16D	Input module
	NZ2GF12A4-16DE	
	NZ2GF12A2-16T	Output module
	NZ2GF12A2-16TE	
	NZ2GF12A42-16DT	I/O combined module
	NZ2GF12A42-16DTE	
	NZ2GFS12A2-16DTE	Safety remote I/O module
	NZ2GFS12A2-14DT	

2 SCHEDULE

Order acceptance: Until October 31, 2022 Production discontinuation: March 31, 2023

3 REASON FOR DISCONTINUATION

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

4 REPAIR SUPPORT

The modules cannot be repaired due to their structure. We appreciate for your kind understanding. When a failure or detect occurs in those products due to the responsibility of Mitsubishi Electric, our company will exchange the product free of charge through the store where you purchased it or our representative.

5 ALTERNATIVE MODELS

Model to be discontinued		Alternative model		
Model	Compatible network	Model	Compatible network	
NZ2GF12A4-16D	CC-Link IE Field Network	NZ2GN12A4-16D	CC-Link IE TSN	
NZ2GF12A4-16DE		NZ2GN12A4-16DE	CC-Link IE Field Network	
NZ2GF12A2-16T		NZ2GN12A2-16T		
NZ2GF12A2-16TE		NZ2GN12A2-16TE		
NZ2GF12A42-16DT		NZ2GN12A42-16DT		
NZ2GF12A42-16DTE		NZ2GN12A42-16DTE		
NZ2GFS12A2-16DTE		NZ2GNS12A2-16DTE	CC-Link IE TSN	
NZ2GFS12A2-14DT		NZ2GNS12A2-14DT		

6 SPECIFICATIONS COMPARISON BETWEEN THE DISCONTINUED AND ALTERNATIVE MODELS

6.1 Input module

O: Compatible, △: Some changes

Item			Model to be discontinued	Alternative model	Compatibility	Impact of the change
			NZ2GF12A4-16D NZ2GF12A4-16DE	NZ2GN12A4-16D NZ2GN12A4-16DE	-	
Input	Rated input cu	rrent	7mA TYP.	7.3mA TYP.	0	_
specifications	Input resistance	e	3.3kΩ	3.0kΩ	0	_
	ON voltage/Of	l current	15VDC or higher/ 3.5mA or higher	11VDC or higher/4mA or higher	Δ	Check that the connected device satisfies the ON/OFF
	OFF voltage/OFF current		8VDC or lower/1.7mA or lower	5VDC or lower/1.5mA or lower	Δ	condition.
	Input response time		0/0.5/1/1.5/5/10/20/ 70ms	0/0.2/1/1.5/5/10/20/ 70ms	Δ	If the setting value of 0.5 is used for the present model, other setting should be set for the alternative model.
Communications	Cyclic	RX/RY points	16 points	16 points	0	_
	transmission	RWr/RWw points	12 points	4 points (Default)	Δ	The number of points and assignment differ. When using them in the program, delete the relevant items or change the devices to be assigned.
External	Height (H)		235mm	238mm	Δ	The external dimensions differ. Check the location space. (Also, the position of the mounting holes differs.)
dimensions	Width (W)		60mm	63mm		
	Depth (D)		38.5mm	37.5mm		

6.2 Output module

NZ2GF12A2-16T, NZ2GN12A2-16T

 \bigcirc : Compatible, \triangle : Some changes

Item			Model to be Alternated		Compatibility	Impact of the change
			NZ2GF12A2-16T	NZ2GN12A2-16T		
Output specifications	Maximum load	d current	2A/1 point 8A/1 common	4A/1 point (Y0 to Y3)*1 2A/1 point (Y4 to YF) 12A/1 common	0	_
Maximum voltage drop at ON		age drop at ON	0.5A at 0.3VDC (TYP.) 0.5A at 0.6VDC (MAX.)	2A at 0.25VDC (TYP.) 2A at 0.5VDC (MAX.) 4A at 0.5VDC (TYP.) 4A at 1.0VDC (MAX.)	0	_
	Output response time	$Off \rightarrow On$	0.5ms or less	0.5ms or less	0	When the output delay time is
		On → Off	1.5ms or less	0.8ms or less	Δ	considered in the system design, the operation of the whole system should be reviewed.
Communications	Cyclic	RX/RY points	16 points	16 points	0	_
transmiss	transmission	RWr/RWw points	12 points	4 points (Default)	Δ	The number of points and assignment differ. When using them in the program, delete the relevant items or change the devices to be assigned.
External	Height (H)	•	235mm	238mm	Δ	The external dimensions differ.
dimensions	Width (W)		60mm	63mm		Check the location space. (Also, the position of the mounting holes differs.)
	Depth (D)		38.5mm	37.5mm		

^{*1} The total output current that flows through one connector should be 4A or less.

NZ2GF12A2-16TE, NZ2GN12A2-16TE

Item			Model to be discontinued	Alternative model	Compatibility	Impact of the change
			NZ2GF12A2-16TE	NZ2GN12A2-16TE		
Output specifications	Maximum load current Maximum voltage drop at ON		2A/1 point 8A/1 common	4A/1 point (Y0 to Y3)*1 2A/1 point (Y4 to YF) 12A/1 common	0	_
			0.5A at 0.5VDC (TYP.) 0.5A at 0.8VDC (MAX.)	2A at 0.3VDC (TYP.) 2A at 0.6VDC (MAX.) 4A at 0.6VDC (TYP.) 4A at 1.2VDC (MAX.)	0	_
	Output response time	$Off \rightarrow On$	0.5ms or less	0.5ms or less	0	When the output delay time is
		On → Off	1.5ms or less	1.0ms or less		considered in the system design, the operation of the whole system should be reviewed.
Communications	Cyclic	RX/RY points	16 points	16 points	0	_
transı	transmission	RWr/RWw points	12 points	4 points (Default)	Δ	The number of points and assignment differ. When using them in the program, delete the relevant items or change the devices to be assigned.
External	Height (H)		235mm	238mm	Δ	The external dimensions differ. Check the location space. (Also, the position of the mounting holes differs.)
dimensions	Width (W)		60mm	63mm		
	Depth (D)		38.5mm	37.5mm		

^{*1} The total output current that flows through one connector should be 4A or less.

6.3 I/O combined module

NZ2GF12A42-16DT, NZ2GN12A42-16DT

Item		Model to be discontinued	Alternative model	Compatibility	Impact of the change	
			NZ2GF12A42-16DT	NZ2GN12A42-16DT		
Input	Rated input cu	ırrent	7mA TYP.	7.3mA TYP.	0	_
specifications	Input resistant	ce	3.3kΩ	3.0kΩ	0	_
	ON voltage/OI	N current	15VDC or higher/ 3.5mA or higher	11VDC or higher/4mA or higher	Δ	Check that the connected device satisfies the ON/OFF condition.
	OFF voltage/0	FF current	8VDC or lower/1.7mA or lower	5VDC or lower/1.5mA or lower	Δ	
	Input response	e time	0/0.5/1/1.5/5/10/20/ 70ms	0/0.2/1/1.5/5/10/20/ 70ms	Δ	If the setting value of 0.5 is used for the present model, other setting should be set for the alternative model.
Output specifications	Maximum load	l current	2A/1 point 8A/1 common	4A/1 point (Y8 to YB)*1 2A/1 point (YC to YF) 12A/1 common	0	_
	Maximum volt	age drop at ON	0.5A at 0.3VDC (TYP.) 0.5A at 0.6VDC (MAX.)	2A at 0.25VDC (TYP.) 2A at 0.5VDC (MAX.) 4A at 0.5VDC (TYP.) 4A at 1.0VDC (MAX.)	0	_
	Output response time	$Off \rightarrow On$	0.5ms or less	0.5ms or less	0	When the output delay time is
		On → Off	1.5ms or less	0.8ms or less	Δ	considered in the system design, the operation of the whole system should be reviewed.
Communications	Cyclic	RX/RY points	16 points	16 points	0	_
	transmission	RWr/RWw points	12 points	4 points (Default)	Δ	The number of points and assignment differ. When using them in the program, delete the relevant items or change the devices to be assigned.
External	Height (H)		235mm	238mm	Δ	The external dimensions differ.
dimensions	Width (W)		60mm	63mm		Check the location space. (Also, the position of the mounting
	Depth (D)		38.5mm	37.5mm	1	holes differs.)

^{*1} The total output current that flows through one connector should be 4A or less.

NZ2GF12A42-16DTE, NZ2GN12A42-16DTE

Item	em		Model to be discontinued	Alternative model	Compatibility	Impact of the change
			NZ2GF12A42-16DTE	NZ2GN12A42-16DTE		
Input	Rated input cu	ırrent	7mA TYP.	7.3mA TYP.	0	_
specifications	Input resistand	ce	3.3kΩ	3.0kΩ	0	_
	ON voltage/Of	N current	15VDC or higher/3.5mA or higher	11VDC or higher/4mA or higher	Δ	Check that the connected device satisfies the ON/OFF
	OFF voltage/C	OFF current	8VDC or lower/1.7mA or lower	5VDC or lower/1.5mA or lower	Δ	condition.
	Input response	e time	0/0.5/1/1.5/5/10/20/70ms	0/0.2/1/1.5/5/10/20/70ms	Δ	If the setting value of 0.5 is used for the present model, other setting should be set for the alternative model.
Output specifications	•	d current	2A/1 point 8A/1 common	4A/1 point (Y8 to YB)*1 2A/1 point (YC to YF) 12A/1 common	0	_
	Maximum volta	age drop at ON	0.5A at 0.5VDC (TYP.) 0.5A at 0.8VDC (MAX.)	2A at 0.3VDC (TYP.) 2A at 0.6VDC (MAX.) 4A at 0.6VDC (TYP.) 4A at 1.2VDC (MAX.)	0	_
	Output	$Off \rightarrow On$	0.5ms or less	0.5ms or less	0	When the output delay time
	response time	time $OII \rightarrow OII$ 1.5ms or less 1.0ms or less	is considered in the system design, the operation of the whole system should be reviewed.			
Communications	Cyclic	RX/RY points	16 points	16 points	0	_
	transmission RWr/RWw points 12 points 4 points (Default) \triangle	The number of points and assignment differ. When using them in the program, delete the relevant items or change the devices to be assigned.				
External	Height (H)		235mm	238mm	Δ	The external dimensions
dimensions	Width (W)		60mm	63mm		differ. Check the location space. (Also, the position of
	Depth (D)		38.5mm	37.5mm		the mounting holes differs.)

^{*1} The total output current that flows through one connector should be 4A or less.

6.4 Safety remote I/O module

NZ2GFS12A2-16DTE, NZ2GNS12A2-16DTE

Item	1		Model to be discontinued		Compatibility	Impact of the change
			NZ2GFS12A2-16DTE	NZ2GNS12A2-16DTE		
Standard	Functional saf	ety standard	IEC61508 (SIL3) ISO13849-1 (Category 4, PLe)	IEC61508 (SIL3) ISO13849-1 (Category 4, PLe)	0	_
Input	Rated input cu	ırrent	6mA TYP.	6.8mA TYP.	0	_
specifications	Input resistand	ce	4kΩ	3.2kΩ	0	_
	ON voltage/Of	N current	11VDC or higher/2mA or higher	11VDC or higher/4mA or higher	Δ	Check that the connected device satisfies the ON condition.
	OFF voltage/C	FF current	5VDC or lower/1.5mA or lower	5VDC or lower/1.5mA or lower	0	_
	Input circuit	$Off \rightarrow On$	0.5ms or less	0.4ms or less	Δ	When the delay time is
	response time	$On \rightarrow Off$	1.5ms or less	0.4ms or less	Δ	considered in the system design, the operation of the whole system should be reviewed.
Safety remote station inpresponse time		station input	Input circuit response time + Input ON/OFF delay setting (0 to 1000ms, per 1ms)	Input circuit response time + Input response time (1/1.5/5/10/20/50/ 70ms)	Δ	Use an available setting value for the alternative model.
Output specifications	Maximum load	l current	1A/1 point	4A/1 point (Y0 to Y1)*1 2A/1 point (Y2 to Y3) 8A/1 common	0	_
	Maximum volta	age drop at ON	1.0VDC or less	1.0VDC or less	0	_
	Output circuit	$Off \rightarrow On$	10ms	0.4ms or less	Δ	When the output delay time
	response time	On → Off	10ms	0.4ms or less	Δ	is considered in the system design, the operation of the whole system should be reviewed.
Communications	Cyclic	RX/RY points	80 points	16 points	Δ	The number of points and
	transmission	RWr/RWw points	16 points	20 points	Δ	assignment differ. When using them in the program,
		SA\X/SA\Y points	SA\X: 28 points SA\Y: 4 points	SA\X: 32 points SA\Y: 32 points	Δ	delete the relevant items or change the devices to be assigned.
External	Height (H)		235mm	238mm	Δ	The external dimensions
dimensions	Width (W)		60mm	63mm	1	differ. Check the location
	Depth (D)		48.5mm	49mm		space. (Also, the position of the mounting holes differs.)

 $^{^{\}star}1$ $\,$ The total output current that flows through one connector should be 4A or less.

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NZ2GFS12A2-14DT, NZ2GNS12A2-14DT

Item			Model to be discontinued	Alternative model	Compatibility	Impact of the change
			NZ2GFS12A2-14DT	NZ2GNS12A2-14DT		
Standard	Functional safety standard		IEC61508 (SIL3) ISO13849-1 (Category 4, PLe)	IEC61508 (SIL3) ISO13849-1 (Category 3, PLe)	Δ	The alternative model has the different category and the same performance level. If the category 4 is required, change the output wiring to use the NZ2GNS12A2-16DTE.
Input	Rated input cu	rrent	6mA TYP.	6.8mA TYP.	0	_
specifications	Input resistance	e	4kΩ	3.2kΩ	0	_
	ON voltage/Of	N current	11VDC or higher/2mA or higher	11VDC or higher/4mA or higher	Δ	Check that the connected device satisfies the ON condition.
	OFF voltage/C	FF current	5VDC or lower/1.5mA or lower	5VDC or lower/1.5mA or lower	0	_
	Input circuit	$Off \rightarrow On$	0.5ms or less	0.4ms or less	considered in the sidesign, the operation	When the delay time is
	response time	On → Off	1.5ms or less	0.4ms or less		considered in the system design, the operation of the whole system should be reviewed.
	Safety remote station input response time		Input circuit response time + Input ON/OFF delay setting (0 to 1000ms, per 1ms)	Input circuit response time + Input response time (1/1.5/5/10/20/50/ 70ms)	Δ	Use an available setting value for the alternative model.
Output specifications	Maximum load	current	2A/1 point	4A/1 point (Y0+, Y0-) 2A/1 point (Y1+, Y1-) 6A/1 common	0	_
	Maximum voltage drop at ON		1.0VDC or less	1.0VDC or less	0	_
	Output circuit	$Off \rightarrow On$	10ms	0.4ms or less	Δ	When the output delay time is
	response time	$On \rightarrow Off$	10ms	0.4ms or less	Δ	considered in the system design, the operation of the whole system should be reviewed.
Communications	Cyclic	RX/RY points	80 points	16 points	Δ	The number of points and
	transmission	RWr/RWw points	16 points	20 points	Δ	assignment differ. When using them in the program, delete the relevant items or change the
		SA\X/SA\Y points	SA\X: 28 points SA\Y: 4 points	SA\X: 32 points SA\Y: 32 points	Δ	devices to be assigned.
External	Height (H)		235mm	238mm	Δ	The external dimensions differ.
dimensions	Width (W)		60mm	63mm		Check the location space. (Also, the position of the mounting
	Depth (D)		48.5mm	49mm		holes differs.)

6.5 Common specifications

This section shows the common specifications.

 \bigcirc : Compatible, \triangle : Some changes, \times : Not compatible

Item		Model to be discontinued	Alternative model	Compatibility	Impact of the change
		NZ2GF□12A□□-16□□	NZ2GN□12A□□-16□□		
External interface	Communication part	M12 waterprooof connector, X-cord	M12 waterprooof connector, X-cord	0	_
	Module power supply part	7/8" waterproof connector	M12 waterprooof connector, L-cord	×	The connector type differs, so the connector for the power supply cable should be changed.
	I/O part	M12 waterprooof connector, A-cord	M12 waterprooof connector, Acord	Δ	The connector type is not changed, but the alternative model does not support the one-touch type. A cable with a screw-type connector should be used.

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REVISIONS

Version	Date of Issue	Revision
A	September 2022	First edition

TRADEMARKS

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