

## Before Using the Product

Before using the product, please read this manual. Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

### ■ Relevant manuals

Before using the product, please read the Safety Guidelines included with the base unit used, especially the following sections.

- SAFETY PRECAUTIONS
- CONDITIONS OF USE FOR THE PRODUCT
- EMC AND LOW VOLTAGE DIRECTIVES
- WARRANTY

For the product information, refer to the following.

Description	Manual name [manual number]
Common information on MELSEC iQ-R series programmable controllers*1	MELSEC iQ-R Module Configuration Manual [SH-081262ENG]
Detailed information on the product	MELSEC iQ-R Flexible High-Speed I/O Control Module User's Manual (Startup) [SH-081645ENG]
	MELSEC iQ-R Flexible High-Speed I/O Control Module User's Manual (Application) [SH-081647ENG]

\*1 The information includes the system configuration, specifications, installation, wiring, maintenance, and inspection.

Please develop familiarity with the functions and performance of the product to handle the product correctly.

### ■ Manuels correspondants

Avant d'utiliser ce produit, prière de lire les "Safety Guidelines" (directive de sécurité) fournies avec l'unité de base, en particulier dans les sections suivantes.

- PRÉCAUTIONS DE SÉCURITÉ
- CONDITIONS D'UTILISATION DE PRODUIT
- DIRECTIVES CEM ET BASSE TENSION
- GARANTIE

### ■ Packing list

Check that the following items are included in the package of the product.

Item	Quantity
Module	1
Before Using the Product (this manual)	1

### ■ Mounting modules

When installing the programmable controller in a control panel, fully consider its operability, maintainability, and environmental resistance.

Securely mount all the MELSEC iQ-R series modules used on the base unit.

For details on the mounting method, refer to the MELSEC iQ-R Module Configuration Manual.

### ■ Montage des modules

Pour installer l'automate programmable dans un tableau de commande, prendre en compte tous les aspects d'opérabilité, de maintenabilité et de résistance à l'environnement.

Monter fermement sur l'unité de base tous les modules de la série MELSEC iQ-R à utiliser.

Pour le détail de la méthode de montage, voir le MELSEC iQ-R Module Configuration Manual (Manuel de configuration du module MELSEC iQ-R).

### ■ Operating ambient temperature

Use the product within the following range.

- 0 to 55°C (when an extended temperature range base unit is not used)
- 0 to 60°C (when an extended temperature range base unit is used)

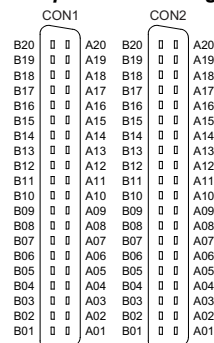
### ■ Température ambiante de fonctionnement

Ce produit doit être utilisé dans les conditions suivantes.

- 0 et 55°C (quand une unité de base à gamme de température élargie n'est pas utilisée)
- 0 et 60°C (quand une unité de base à gamme de température élargie est utilisée)

### ■ Signal layout

#### ■ Répartition des signaux



Viewed from the front of the module

Pin number	CON1		CON2	
	B	A	B	A
20	NC	NC	NC	NC
19	High-speed input 0 24VDC	High-speed input 0 5VDC	High-speed input 6 24VDC	High-speed input 6 5VDC
18	High-speed input 0 differential	High-speed input 0 common	High-speed input 6 differential	High-speed input 6 common
17	High-speed input 1 24VDC	High-speed input 1 5VDC	High-speed input 7 24VDC	High-speed input 7 5VDC
16	High-speed input 1 differential	High-speed input 1 common	High-speed input 7 differential	High-speed input 7 common
15	High-speed input 2 24VDC	High-speed input 2 5VDC	High-speed input 8 24VDC	High-speed input 8 5VDC
14	High-speed input 2 differential	High-speed input 2 common	High-speed input 8 differential	High-speed input 8 common
13	High-speed input 3 24VDC	High-speed input 3 5VDC	High-speed input 9 24VDC	High-speed input 9 5VDC
12	High-speed input 3 differential	High-speed input 3 common	High-speed input 9 differential	High-speed input 9 common
11	High-speed input 4 24VDC	High-speed input 4 5VDC	High-speed input A 24VDC	High-speed input A 5VDC
10	High-speed input 4 differential	High-speed input 4 common	High-speed input A differential	High-speed input A common
9	High-speed input 5 24VDC	High-speed input 5 5VDC	High-speed input B 24VDC	High-speed input B 5VDC
8	High-speed input 5 differential	High-speed input 5 common	High-speed input B differential	High-speed input B common
7	High-speed output 0	High-speed output 1	High-speed output 4	High-speed output 5
6	High-speed output 2	High-speed output 3	High-speed output 6	High-speed output 7
5	High-speed output 0-3 common	High-speed output common	High-speed output 4-7 common	High-speed output common
4	High-speed output 0 differential +	High-speed output 0 differential -	High-speed output 3 differential +	High-speed output 3 differential -
3	High-speed output 1 differential +	High-speed output 1 differential -	High-speed output 4 differential +	High-speed output 4 differential -
2	High-speed output 2 differential +	High-speed output 2 differential -	High-speed output 5 differential +	High-speed output 5 differential -
1	NC	NC	NC	NC

English	French	English	French
Viewed from the front of the module	Vue de l'avant du module	High-speed output *	Sortie des haut débit *
Pin number	Broche N°	High-speed output *-*	Sortie des haut débit *-*
High-speed input * 24VDC	Entrée des haut débit * 24VDC	High-speed output common	Sortie haut débit commun
High-speed input * 5VDC	Entrée des haut débit * 5VDC	High-speed output * differential +	Sortie des haut débit * différentielle +
High-speed input * differential	Entrée des haut débit * différentielle	High-speed output * differential -	Sortie des haut débit * différentielle -
High-speed input * common	Entrée des haut débit * commun		

### ■ Wiring products

The table below shows applicable 40-pin connectors. When wiring, use applicable wires and appropriate tightening torque.

Mitsubishi 40-pin connector		Wire			
Model	Tightening torque	Diameter	Type	Material	Temperature rating
A6CON1*1	0.20 to 0.29N·m	28 to 22 AWG	Stranded	Copper	75°C or more
A6CON2		28 to 24 AWG			
A6CON4*1		28 to 22 AWG			

\*1 Use cables with outside diameter of 1.3mm or shorter to connect 40 cables to the connector. In addition, consider the amount of current to be used and select appropriate cables.

### ■ Produits pour câblage

Le tableau ci-dessous indique quels connecteurs 40 broches sont à utiliser. Pour le câblage, utiliser les fils et couples de serrage prescrits.

Connecteur 40-broches Mitsubishi		Fil			
Modèle	Couple de serrage	Diamètre	Type	Matériau	Gamme de température
A6CON1*1	0,20 à 0,29 N·m	28 à 22 AWG	Torsadé	Cuivre	75 °C ou plus
A6CON2		28 à 24 AWG			
A6CON4*1		28 à 22 AWG			

\*1 Le diamètre extérieur des câbles utilisés pour les 40 raccordements au connecteur ne doit pas excéder 1,3 mm. Le choix d'une taille de conducteur dépendra de l'intensité du courant à prendre en considération.

### ■ Information and services

For further information and services, please consult your local Mitsubishi representative.