

<Specification Comparison>

Model	MEMOCON GL Series 120 Series I/O	MELSEC iQ-R Series		
	JAMSC-120DDI35400 (Positive/Negative common Shared Type)	RX41C4 (Positive/Negative common Shared Type)	RX41C6HS (Positive/Negative common Shared Type)	RX71C4 (Positive/Negative common Shared Type)
Specifications				
Number of input points	32 points	32 points	32 points	32 points
Rated input voltage	12/24VDC (Maximum 30VDC)	24VDC (20.4 to 28.8VDC)	24VDC (20.4 to 28.8VDC)	5VDC(4.25 to 6VDC) 12VDC(10.2 to 14.4VDC)
Rated input current	4mA (24VDC) 2mA (12VDC)	4.0mA TYP.(at 24VDC)	6.0mA TYP.(at 24VDC)	1.7mA TYP. (at 5VDC) 4.8mA TYP. (at 12VDC)
ON voltage/ON current	9V or higher	19V or higher/3mA or higher	19V or higher/4mA or higher	3.5V or higher/1mA or higher
OFF voltage/OFF current	5V or lower	6V or lower/1.0mA or lower	6V or lower/1.7mA or lower	1V or lower/0.1mA or lower
Input resistance	5.6kΩ	5.3kΩ	4kΩ	2.3kΩ
Response time	OFF to ON	5ms or less	0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.2/0.3/0.5/0.6/1/5/10/20/70ms or less
	ON to OFF	5ms or less	0.2/0.3/0.5/0.7/1/5/10/20/70ms or less	0.21/0.3/0.5/0.6/1/5/10/20/70ms or less
Internal current consumption	80mA (All points ON)	150mA (TYP. All points ON)	150mA (TYP. All points ON)	140mA (TYP. all points ON)
Wiring method for common	16 points/common (2 circuits)	32 points/common	32 points/common	32 points/common
External connection system	40-pin connector	40-pin connector	40-pin connector	40-pin connector

Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series Module.

Model	MEMOCON GL Series 120 Series I/O	MELSEC iQ-R Series
	JAMSC-120DDO35410 (Sink Type)	RY41NT2P (Sink Type)
Specifications		
Number of output points	32 points	32 points
Rated load voltage	12/24VDC (10.2 to 30.0VDC)	12/24V DC (10.2 to 28.8VDC)
Maximum load current	0.3A/point 0.4A/4 points	0.2A/point Pilot Duty 2A/common
Maximum inrush current	-	Current is to be limited by the overload protection function.
Leakage current at OFF	1mA or lower (24VDC)	0.1mA or lower
Maximum voltage drop at ON	1.5V or lower (0.3A)	0.2VDC (TYP.) 0.2A 0.3VDC (MAX.) 0.2A
Response time	OFF to ON	1ms or less
	ON to OFF	1ms or less
Surge suppressor	None	Zener diode
Fuse	3.5A two fuses (One fuse/Common)	None
Internal current consumption	330mA(All points ON)	180mA (TYP. All point ON)
Wiring method for common	16 points/common (2circuits)	32 points/common
External connection system	40-pin connector ×2	40-pin connector

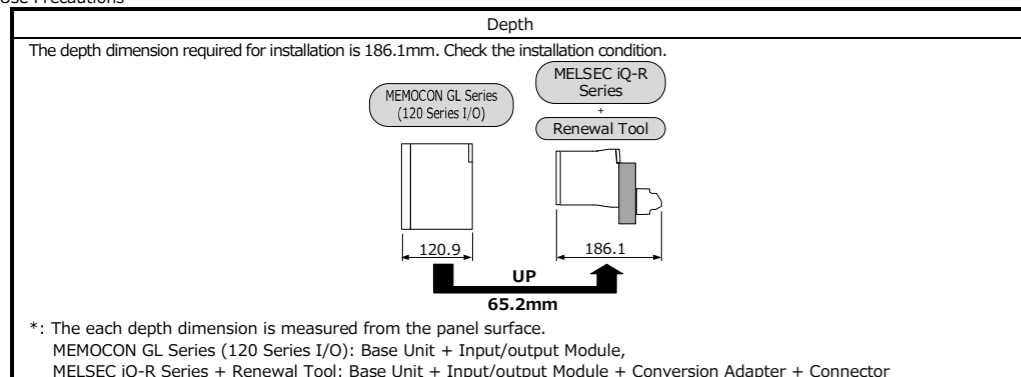
Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series Module.

4. Mounting and Installation

4.1 Handling Precautions

- Before attempting to install the Unit or carry out the necessary wiring, make certain that the external power supply, used in the system, is shut off on all three phases. Failure to do so may result in electric shock or damage to the product.
- Do not touch the terminals during energization. Doing so could result in electric shock or malfunction.
- Do not disassemble or modify the conversion adapter. Doing so could result in failure, malfunction, injury or fire.
- Do not touch the energized part of the Conversion Adaptor directly. Contact will cause malfunction or failure in the system.
- Fasten the Conversion Adapter and the Mounting Bracket securely with retaining screws, and tighten the screws by applying torque within specified limits. Loose screws can lead to the dropping of the Conversion Adapter, or Mounting Bracket, possibly causing breakage thereof. Excessive tightness of the screws can lead to breakage of the screws, Converter Adaptor, Mounting Bracket, or MELSEC iQ-R Series Module, possibly causing the dropping, shorting, and malfunction thereof.
- Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adapter or the MELSEC iQ-R Series Module. These will be cause for fire, failure or malfunction.
- Do not drop the Conversion Adapter and Mounting Bracket or do not give a strong impact to it. This will cause damage.
- Conversion Adapter is intended for indoor use only.

4.2 Use Precautions



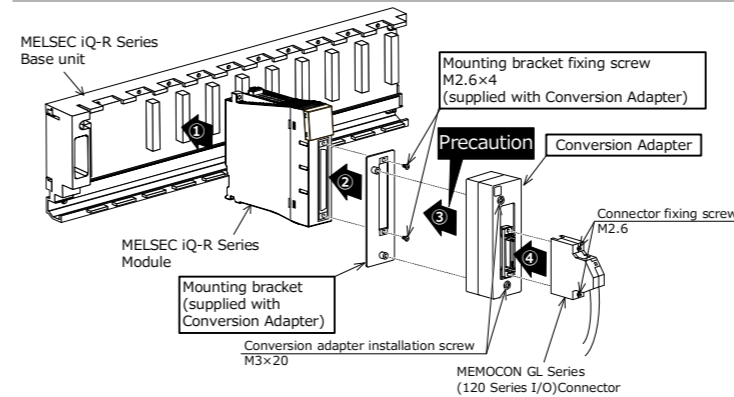
4.3 Installation Environment

Refer to "Safety Guidelines" for MELSEC iQ-R Series Modules.

4.4 Wiring module power source

External connection to 24VDC power supply circuit of Conversion Adapter must be powered from approved source that meets of SELV/PELV, Class 2, and limited energy according to UL 61010-2-201.

5. Part Names and Installation Method



5.1 Installation Method

Installation with the Control panel	Installation with the DIN rail
Install the MELSEC iQ-R Series Base Unit on the control panel. For how to install the Base Unit on the control panel, refer to the MELSEC iQ-R Module Configuration Manual.	Install the DIN rail mounting adapter manufactured by Mitsubishi Electric to the MELSEC iQ-R Series Base Unit. For how to install the Base Unit on the DIN rail, refer to the MELSEC iQ-R Module Configuration Manual.

- Mount the MELSEC iQ-R Series module to the MELSEC iQ-R Series Base Unit.
 - Secure the mounting bracket to the Programmable Controller Module using the mounting bracket fixing screws (M2.6 × 4; 2 locations).
 - Mount the Conversion Adapter onto the Mounting Bracket, and secure the Conversion Adapter using the Conversion Adapter installation screws (M3 × 20; 2 locations).
- Precaution**

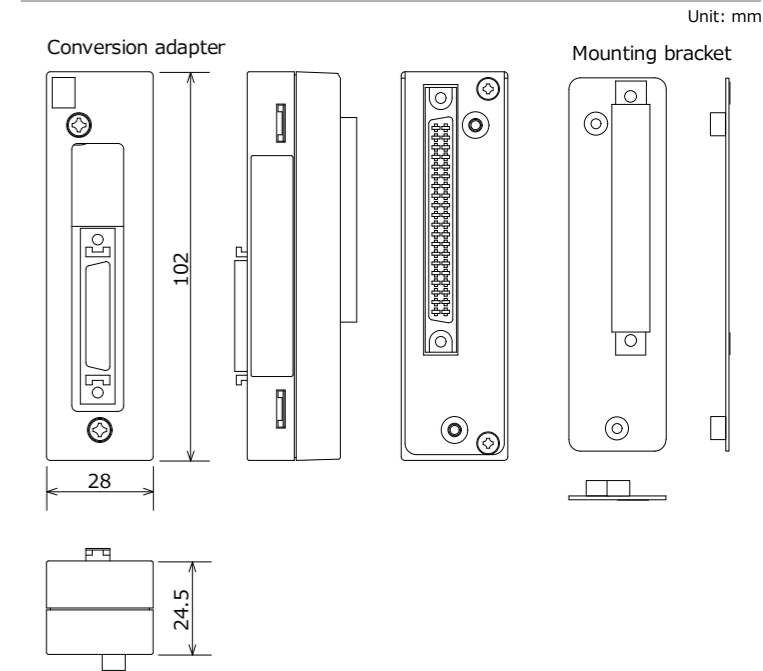
Before tightening the installation screws, check that the Conversion Adapter has been securely installed on the Programmable Controller Module. Tightening the screws in floating-off state or tilting state will damage the Conversion Adapter installation screws and the mounting bracket.
- Secure the connector of the MEMOCON GL Series (120 Series I/O) to the Conversion Adapter with the connector installation screws (M2.6; 2 locations).

5.2 Tightening Torque

Tighten the module installation screws to the specified torque below. An inappropriate tightening torque could cause the product to fall or result in a short circuit, product failure or malfunction.

Screw Location	Tightening Torque Range
Mounting Bracket fixing screw (M2.6×4)	0.20 to 0.29 N·m
Conversion Adapter installation screw (M3×20)	0.43 to 0.57 N·m
Connector installation screw (M2.6)	0.435 to 0.445 N·m

6. External Dimensions



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Product Warranty Details

Please confirm the following product warranty details prior to product use.

Gratis Warranty Terms and Gratis Warranty Range

If any fault or defect (hereinafter referred to as "Failure") attributable to Mitsubishi Electric Engineering Company Limited (hereinafter referred to as "MEE") should occur within the gratis warranty period, MEE shall repair the product free of charge via the distributor from whom you made your purchase.

■ Gratis Warranty Period

The gratis warranty period of this product shall be one (1) year from the date of purchase or delivery to the designated place.
Note that after manufacture and shipment from MEE, the maximum distribution period shall be six (6) months, and the gratis warranty period after manufacturing shall be limited to eighteen (18) months.
In addition, the gratis warranty period for repaired products shall not exceed the gratis warranty period established prior to repair.

■ Gratis Warranty Range

The gratis warranty range shall be limited to normal use based on the usage conditions, methods and environment, etc., defined by the terms and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.

Warranty Period after Discontinuation of Production

- MEE shall offer product repair services (fee applied) for seven (7) years after production of the product has been discontinued. Discontinuation of production shall be reported via distributors.
- Product supply (including spare parts) is not possible after production has been discontinued.

Exclusion of Opportunity Loss and Secondary Loss from Warranty Liability

Regardless of the gratis warranty period, MEE shall not be liable for compensation for damages arising from causes not attributable to MEE, opportunity losses or lost profits incurred by the user due to Failures of MEE products, damages or secondary damages arising from special circumstances, whether foreseen or unforeseen by MEE, compensation for accidents, compensation for damages to products other than MEE products, or compensation for other work carried out by the user.

Changes in Product Specifications

The specifications given in the catalogs, manuals and technical documents are subject to change without notice.

This document is a new publication, effective November 2018. Specifications are subject to change without notice.