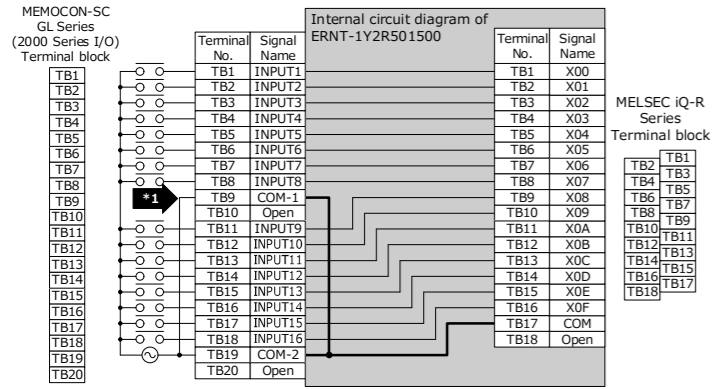


(1) In the case of JAMSC-B2501A → RX10



Precautions for wiring

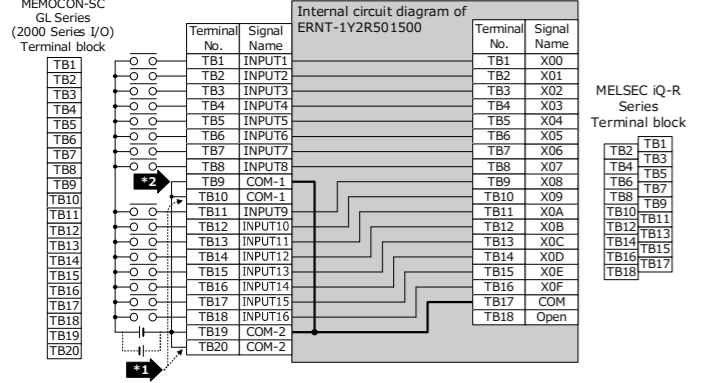
*1 Because the switch concerned causes the number of points per common to change from 8 (two circuits) to 16, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

<Specification Comparison Chart>

Specifications	Model	MEMOCON-SC GL Series (2000 Series I/O)	MELSEC iQ-R Series
		JAMSC-B2501A	RX10
Number of input points		16 points	16 points
Rated input voltage		100VAC	100 to 120VAC (+10%/-15%) 50/60Hz(±3Hz)
Rated input current		Approx. 10mA (100VAC, 60Hz)	8.2mA(100VAC, 60Hz) 6.8mA(100VAC, 50Hz)
Inrush current		-	200mA maximum within 1ms
ON voltage/ON current		80V to 132V	80VAC or higher/5mA or higher (50Hz, 60Hz)
OFF voltage/OFF current		30V or lower	30VAC or lower/1.7mA or lower (50Hz, 60Hz)
Input impedance		Approx. 10kΩ	12.2kΩ(60Hz), 14.6kΩ(50Hz)
Response time	OFF→ON	15ms or less	15ms or less (100VAC 50Hz, 60Hz)
	ON→OFF	25ms or less	20ms or less (100VAC 50Hz, 60Hz)
Internal current consumption		40mA TYP.(All points ON)	110mA (TYP. All points ON)
Wiring method for common		8 points/common (2 circuits)	16 points/common
External connection system		20-point terminal block	18-point terminal block

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

(2) In the case of JAMSC-B2601 → RX40C7 / RX70C4



Precautions for wiring

*1 Common connected to the terminal numbers TB10 and TB20 on the MEMOCON-SC GL Series side terminal block becomes unnecessary. However, that leaving the terminals connected will not cause a problem because the wire is not connected inside the Conversion Adapter.

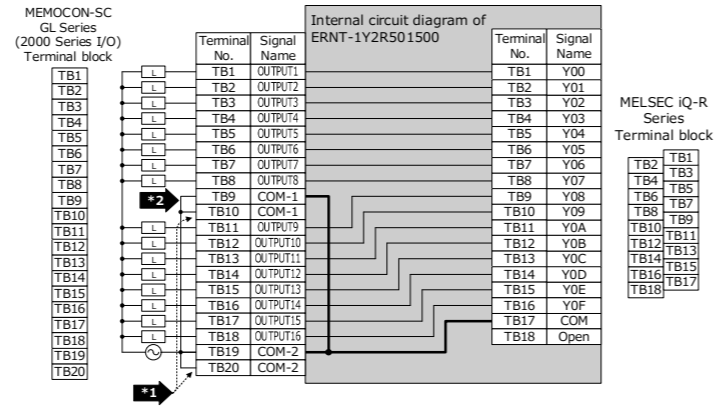
*2 Because the switch concerned causes the number of points per common to change from 8 (four circuits) to 16, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

<Specification Comparison Chart>

Specifications	Model	MEMOCON-SC GL Series (2000 Series I/O)	MELSEC iQ-R Series	
		JAMSC-B2601 (Positive/Negative Common Shared Type)	RX40C7 (Positive/Negative Common Shared Type)	RX70C4 (Positive/Negative Common Shared Type)
Number of input points		16 points	16 points	16 points
Rated input voltage		12/24VDC (10.2 to 26.4VDC)	24VDC (20.4 to 28.8VDC)	5VDC(4.25 to 6VDC) 12VDC(10.2 to 14.4VDC)
Rated input current		10mA (24VDC) 5mA (12VDC)	7.0mA TYP. (24VDC)	1.7mA TYP. (5VDC) 4.8mA TYP. (12VDC)
ON voltage/ON current		8V or higher	15VDC or higher/ 4mA or higher	3.5V or higher/ 1mA or higher
OFF voltage/OFF current		4V or lower	8VDC or lower/ 2mA or lower	1V or lower/ 0.1mA or lower
Input impedance		Approx. 2.4kΩ	3.3kΩ	2.3kΩ
Response time	OFF→ON	5ms or less	0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.2/0.3/0.4/0.5/1/5/10/20/70ms or less
	ON→OFF	5ms or less	0.35/0.4/0.5/0.7/1/5/10/20/70ms or less	0.41/0.5/0.6/0.7/1/5/10/20/70ms or less
Internal current consumption		40mA TYP.(All points ON)	110mA (TYP. All points ON)	100mA (TYP. All points ON)
Wiring method for common		8 points/common (2 circuit)	16 points/common	16 points/common
External connection system		20-point terminal block	18-point terminal block	18-point terminal block

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

(3) In the case of JAMSC-B2500 → RY20S6



Precautions for wiring

*1 Common connected to the terminal numbers TB10 and TB20 on the MEMOCON-SC GL Series side terminal block becomes unnecessary. However, that leaving the terminals connected will not cause a problem because the wire is not connected inside the Conversion Adapter.

*2 Because the switch concerned causes the number of points per common to change from 8 (two circuits) to 16, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

<Specification Comparison Chart>

Specifications	Model	MEMOCON-SC GL Series (2000 Series I/O)	MELSEC iQ-R Series
		JAMSC-B2500 (triac output)	RY20S6 (triac output)
Number of output points		16 points	16 points
Rated load voltage		100/200VAC	100 to 240VAC (+10%/-15%) 50/60Hz(±3Hz)
Maximum load current		1Arms/point 3A/8 points	0.6A/point 4.8A/common
Minimum load voltage/current		10mArms	24VAC/100mA 100VAC/25mA 240VAC/25mA
Maximum inrush current		20A(10ms)	20A/cycle or lower
OFF leakage current		1.5mArms(100VAC, 50Hz) 3mArms(240VAC, 50Hz)	1.5mA or lower (at 120V 60Hz) 3mA or lower (at 240V 60Hz)
Maximum voltage drop at power-ON		1.5Vrms or lower (at load current 1Arms) 1ms or less	1.5V or lower (at load current 0.6A) 1ms + 0.5 cycles or less
Response time	OFF→ON	1/2 cycles + 1ms or less	1ms + 0.5 cycles or less
	ON→OFF	1/2 cycles + 1ms or less	1ms + 0.5 cycles or less (rated load, resistive load)
Surge suppressor		CR absorber / Varistor	CR absorber
Fuse		Two 7.5A fuses (1 fuse/common)	None (Attaching a fuse to each external wiring is recommended.)
Internal current consumption		V _{cc} 190mA TYP.(All points ON) V _p 290mA TYP.(All points ON)	280mA(TYP. All points ON)
Wiring method for common		8 points/common (2 circuits)	16 points/common
External connection system		20-point terminal block	18-point terminal block

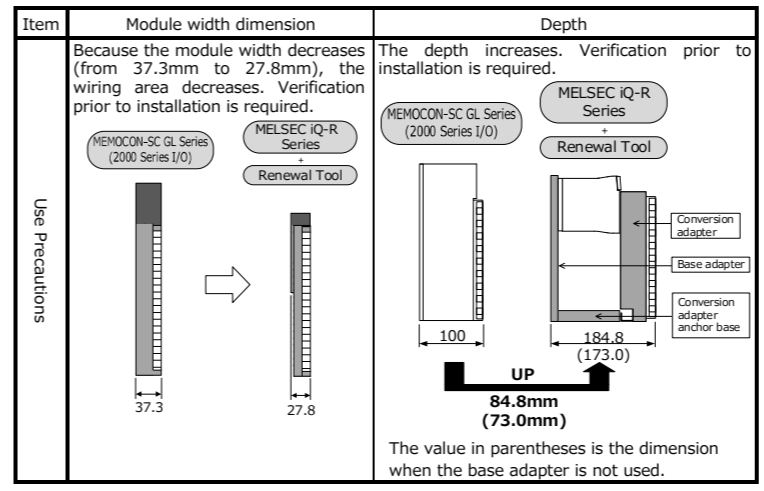
Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series module.

5. Mounting and Installation

5.1 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 live terminals. There is a danger of electric shock or malfunction.
- Do not modify the Conversion Adapter or take it apart. Doing so will cause failure, malfunction, personal 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.

5.2 Use Precautions



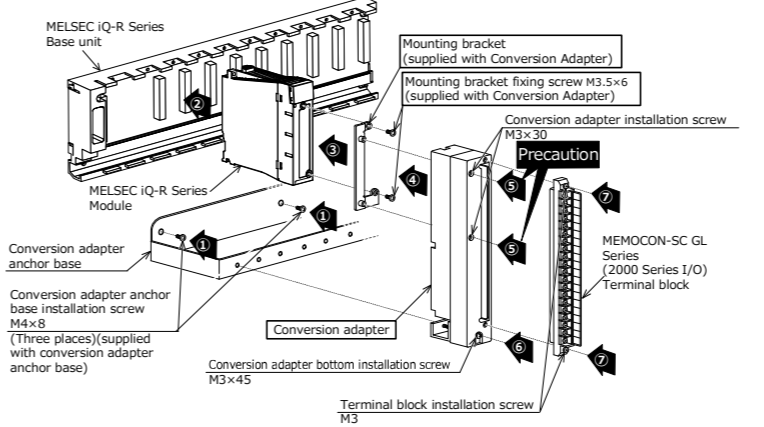
5.3 Installation Environment

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

5.4 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.

6. Part Names and Installation Method



6.1 Installation Method

- Secure the Conversion Adapter Anchor Base to the Base Adapter or control panel using the Conversion Adapter Anchor Base installation screws (M4 × 8) provided as an accessory. (2 locations at both sides, 1 location at the center)
- Mount the MELSEC iQ-R Series module to the MELSEC iQ-R Series base unit. In addition, remove the terminal block attached with the MELSEC iQ-R Series Module after loosening the terminal block installation screws (2 places top and bottom).
- Secure the Mounting Bracket to the MELSEC iQ-R Series Module using the Mounting Bracket fixing screws [M3.5 × 6 (conversion adapter accessory)]; two upper/lower locations].
- Mount the Conversion Adapter onto the Mounting Bracket.
- Secure the Conversion Adapter using the Conversion Adapter installation screws (M3 × 30; 2 locations).
- Secure the Conversion Adapter using the Conversion Adapter bottom installation screw (M3 × 45; 1 location).
- Secure the terminal block of the MEMOCON-SC GL Series (2000 Series I/O) to the Conversion Adapter with the terminal block installation screws (M3; two upper/lower locations).

Precaution

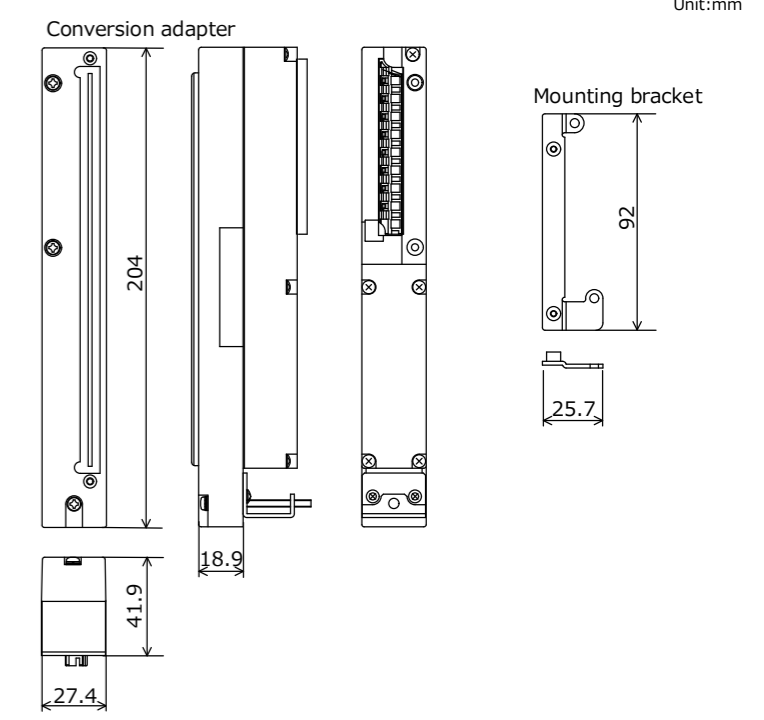
Before tightening the installation screws, check that the Conversion Adapter has been securely installed on the MELSEC iQ-R Series Module. Tightening the screws in floating-off state or tilting state will damage the Conversion Adapter installation screws and the Mounting Bracket.

6.2 Tightening Torque

Tighten the 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
Conversion Adapter Anchor Base installation screw (M4×8)	1.39 to 1.89N·m
Mounting Bracket fixing screw (M3.5×6)	0.68 to 0.92N·m
Conversion Adapter installation screw (M3×30)	0.43 to 0.57N·m
Conversion Adapter bottom installation screw (M3×45)	
Terminal block installation screw (M3)	0.5 to 0.6N·m

7. 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.