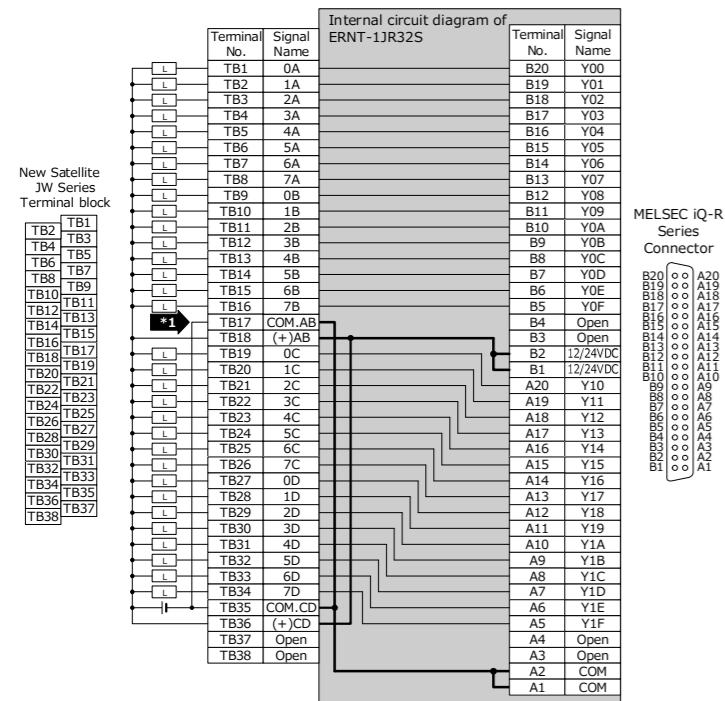


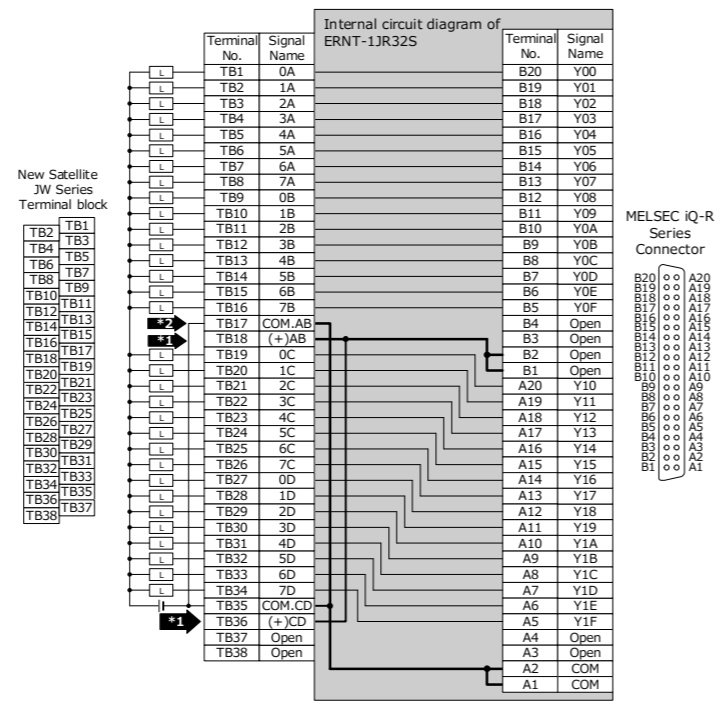
(1) In the case of JW-32S → RY41NT2P



Precautions for wiring

*1 Because the switch concerned causes the number of points per common to change from 16 (two circuits) to 32, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

(2) In the case of JW-32S → RY41NT2H

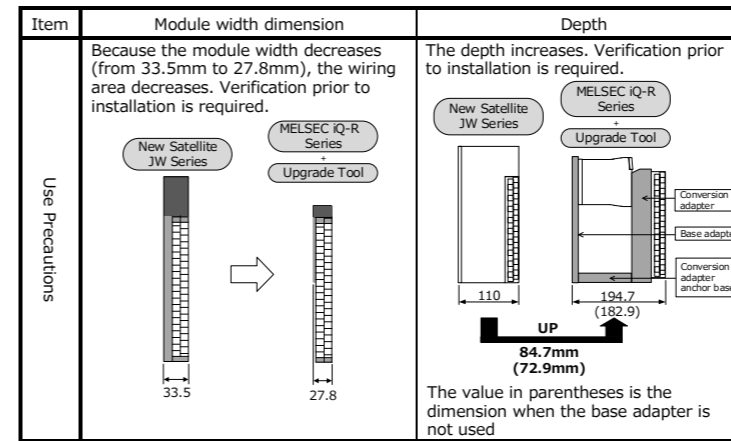


Precautions for wiring

*1 For the replacement of the current module with the RY41NT2H, MELSEC iQ-R-side power supply terminals are left idle. Be certain that the terminal Nos. TB18 and TB36 are left idle (in an unconnected state) because a short circuit is established within the Conversion Adapter.

*2 Because the switch concerned causes the number of points per common to change from 16 (two circuits) to 32, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

5.2 Use Precautions



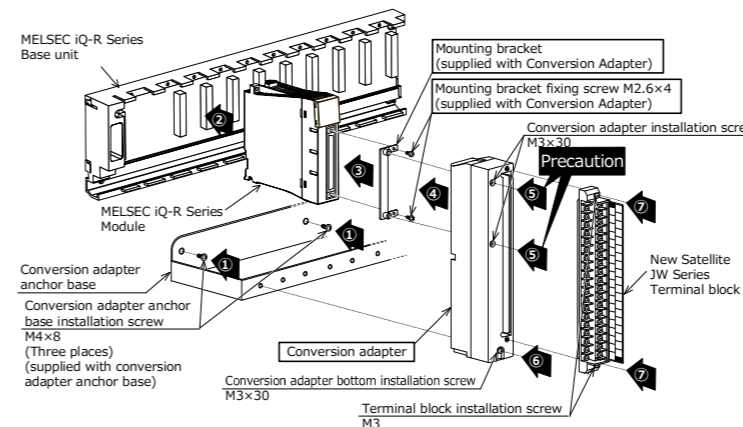
5.3 Installation Environment

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

5.4 Wiring module power source

External connection to 24VDC power supply circuit of Gateway module 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

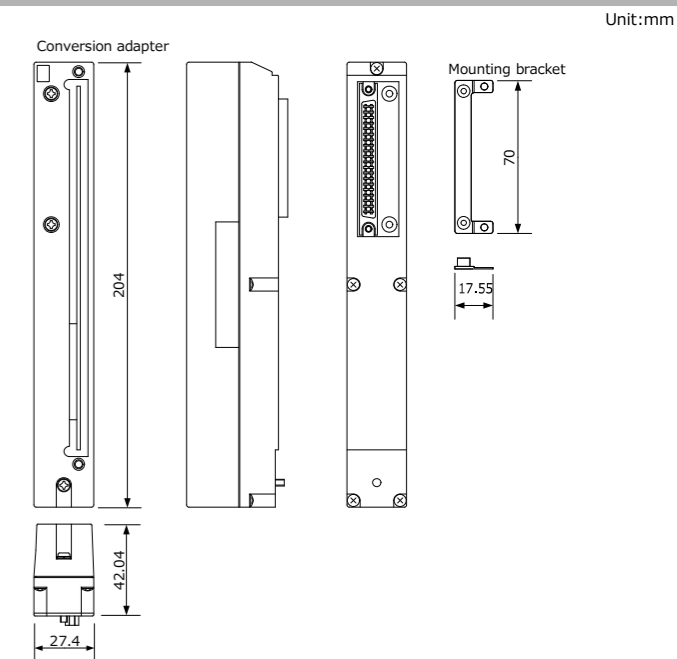
- Secure the Conversion Adapter Anchor Base to the Base Adapter or control panel using the Conversion Adapter Anchor Base installation screws (M4 × 8) provided as an accessory. (2 locations at both sides, 1 location at the center)
 - Mount the MELSEC iQ-R Series module to the MELSEC iQ-R Series base unit.
 - Secure the Mounting Bracket to the MELSEC iQ-R Series Module using the Mounting Bracket fixing screws [M2.6 × 4 (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).
- 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.
- Secure the Conversion Adapter using the Conversion Adapter bottom installation screw (M3 × 30; 1 location).
 - Secure the terminal block of the New Satellite JW Series to the Conversion Adapter with the terminal block installation screws (M3; two upper/lower locations).

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 (M2.6×4)	0.20 to 0.29N·m
Conversion Adapter installation screw (M3×30)	0.43 to 0.57N·m
Conversion Adapter bottom installation screw (M3×30)	0.5 to 0.6N·m
Terminal block installation screw (M3)	0.5 to 0.6N·m

7. External Dimensions



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<Specification Comparison Chart>

Specifications	Model	New Satellite JW Series	MELSEC iQ-R Series
		JW-32S (Sink type)	RY41NT2P (Sink type)
Number of output points		32 points	32 points
Rated load voltage *1		5/12/24VDC (4.75 to 30VDC)	12/24VDC (10.2 to 28.8VDC)
Maximum load current		1A/point 8A/common	0.2A/point Pilot Duty 2A/common
Maximum inrush current		—	Current is to be limited by the overload protection function.
Leakage current at OFF		0.2mA or lower	0.1mA or lower
Maximum voltage drop at ON		1VDC or lower (1A)	0.2VDC(TYP.) 0.2A 0.3VDC(MAX.) 0.2A
Response time	OFF→ON	1ms or less	0.5ms or less
	ON→OFF	1ms or less	1ms or less (rated load, resistive load)
Surge suppressor		Zener diode	Zener diode
Fuse		One 8A fuse (1 fuse/common)	None
Internal current consumption (5VDC)		Maximum 217mA n points at ON→(25+6n)mA	180mA (TYP. All point ON)
Wiring method for common		16 points/common	32 points/common
External connection system		38-point terminal block	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.
*1 When uses the rated input voltage of 5VDC, the voltage must be changed to 12VDC or 24VDC.

<Specification Comparison Chart>

Specifications	Model	New Satellite JW Series	MELSEC iQ-R Series
		JW-32S (Sink type)	RY41NT2H (Sink type)
Number of output points		32 points	32 points
Rated load voltage		5/12/24VDC (4.75 to 30VDC)	5/12/24V DC (4.25 to 28.8V DC)
Maximum load current		1A/point 8A/common	0.2A/point 2A/common
Maximum inrush current		—	0.7A 10ms or lower
Leakage current at OFF		0.2mA or lower	0.1mA or lower
Maximum voltage drop at ON		1VDC or lower (1A)	0.1VDC (TYP.) 0.2A 0.2VDC (MAX.) 0.2A
Response time	OFF→ON	1ms or less	1μs or less
	ON→OFF	1ms or less	2μs or less (rated load, resistive load)
Surge suppressor		Zener diode	Zener diode
Fuse		One 8A fuse (1 fuse/common)	None
Internal current consumption (5VDC)		Maximum 217mA n points at ON→(25+6n)mA	420mA (TYP. All point ON)
Wiring method for common		16 points/common	32 points/common
External connection system		38-point terminal block	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.

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.

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.