

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 come in direct contact with the conductive area of the conversion adapter. Doing so could result in system malfunction or failure.
- Fasten the Conversion Adapter and the Fittings securely with retaining screws, and tighten the screws by applying torque within specified limits. Loose screws can lead to the dropping of the converter adapter, or fittings, possibly causing breakage thereof. Excessive tightness of the screws can lead to breakage of the screws, converter adapter, fittings, or the Programmable Controller, possibly causing the dropping, shorting, and malfunction thereof.
- Take care to prevent foreign materials including cutting chips and wire scraps from entering the Conversion Adapter or the Programmable Controller Module, possibly causing fire, failure or malfunction thereof.
- Do not drop the Conversion Adapter and Fittings, and avoid giving a strong impact to them. Otherwise, breakage will result.
- If the existing system is installed on a DIN rail, the Base Adaptor is not necessary. The Q Series or iQ-R Series Base Module you use can be mounted onto a DIN rail.

4.2 Use Precautions

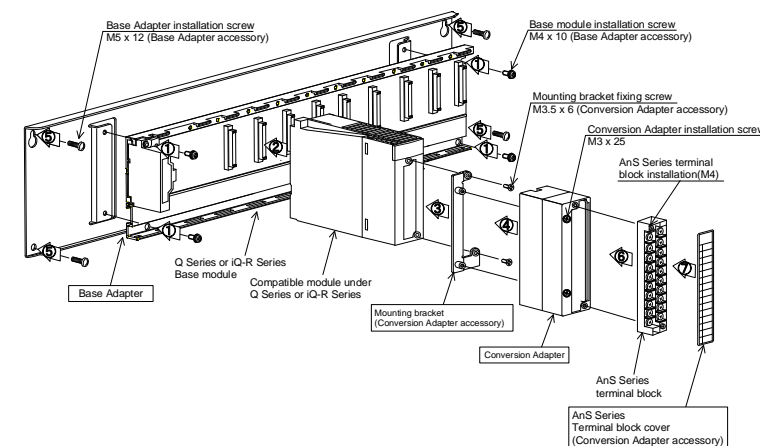
Item	AnS Series → Q Series	AnS Series → iQ-R Series
Width dimension of module	<p>Because the module is reduced in width dimension (34.5mm→27.4mm) and thus in area available for wiring, check dimensional data before installing the module.</p> <p>Unit: mm</p>	<p>Because the module is reduced in width dimension (34.5mm→27.8mm) and thus in area available for wiring, check dimensional data before installing the module.</p> <p>Unit: mm</p>
Depth dimension of module	<p>Because the module is increased in depth dimension, check dimensional data before installing the module.</p> <p>25.5mmUP Unit: mm</p>	<p>Because the module is increased in depth dimension, check dimensional data before installing the module.</p> <p>66.6mmUP Unit: mm</p>
Terminal block cover	<p>The terminal block cover for AnS Series is bigger than the width of the Q Series Module. Therefore, it is necessary to replace it with the terminal block cover supplied with the converter adapter.</p> <p>Unit: mm</p>	<p>The terminal block cover for AnS Series is bigger than the width of the iQ-R Series Module. Therefore, it is necessary to replace it with the terminal block cover supplied with the converter adapter.</p> <p>Unit: mm</p>

4.3 Installation Environment

Refer to the manual supplied with the Q Series or iQ-R Series module you use.

- Q Series: QCPU User's Manual (SH-080483ENG)
- iQ-R Series: Safety Guidelines (IB-0800525E)

5. Part Names and Installation Method



5.1 Installation Method

- Secure the Q Series or iQ-R Series Base Module to the Base Adapter with the supplied installation screws (M4 x 10). (Secure it in four places.)

Precaution

If the existing system is installed on a DIN rail, the Base Adaptor is not necessary. The Base Module you use can be mounted onto the DIN rail. Take note that a DIN rail installation adaptor made by Mitsubishi is required to mount Base Module onto a DIN rail. The separately-sold Conversion Adapter DIN rail Mounting Bracket (ERNT-ASQDIN□) is required to use the Conversion Adapter with a fixture on this Base module.

- Mount the Programmable Controller Module to the Base Module.
- Secure the mounting bracket to the Programmable Controller Module using the mounting bracket fixing screws (M3.5 x 6). (Secure it in two places, top and bottom.)
- Mount the Conversion Adapter onto the mounting bracket and secure it with the Conversion Adapter attaching screws (M3 x 25). (Secure it in two places, top and bottom.)

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.

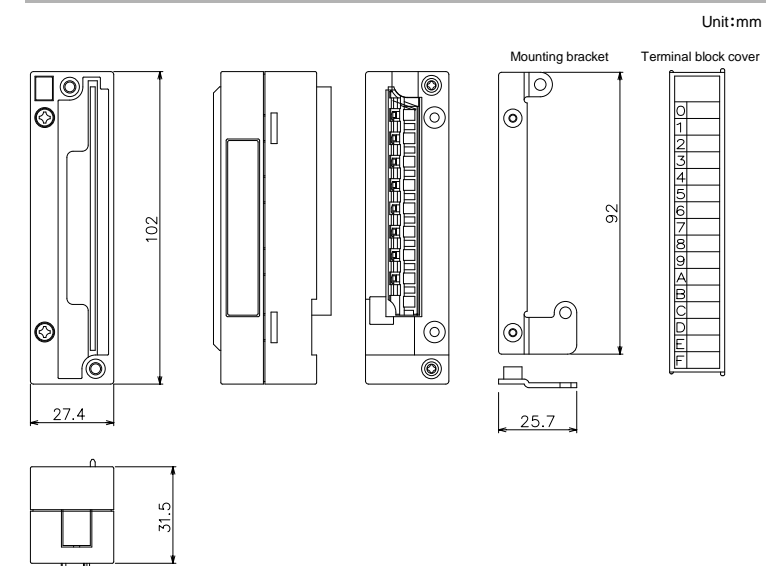
- Secure the Base Adapter to the panel with the supplied attaching screws (M5 x 12). (Secure it in four places.)
- Secure the AnS Series terminal block to the Conversion Adapter with the supplied attaching screws (M4).
- Remove the terminal block cover from the AnS Series terminal block and fit the terminal block cover supplied with the Conversion Adapter in place.

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
Base Adapter installation screw (M5 screw)	2.75 to 3.63N·m
Base module installation screw (M4 screw)	1.39 to 1.89N·m
Mounting bracket fixing screw (M3.5 screw)	0.68 to 0.92N·m
Conversion adapter installation screw (M3 screw)	0.43 to 0.57N·m
AnS series terminal block installation screw (M4 screw)	0.78 to 1.18N·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.

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- Product supply (including spare parts) is not possible after production has been discontinued.

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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 April 2018. Specifications are subject to change without notice.