Mitsubishi General-Purpose Programmable Controller

Renewal Tool Conversion Adaptor

Models:

ERNT-ASQTXY10 ERNT-ASQTX40 ERNT-ASQTX80
ERNT-ASQTY22 ERNT-ASQTY40 ERNT-ASQTY50
ERNT-ASQTY80

Base Adaptor

Models:

ERNT-ASQB38 ERNT-ASQB35 ERNT-ASQB33
ERNT-ASQB00J ERNT-ASQB68 ERNT-ASQB65
ERNT-ASQB55

User's Manual

50CM-D180020-B (1104) MEE

● SAFETY INSTRUCTIONS ●

(Always read these precautions prior to use.)

Before attempting to use the Conversion Adaptor and the Base Adaptor (or the Products), read all instructions contained in this manual carefully to ensure safe and correct operation.

The safety instructions appearing in this manual are limited to those that apply to the Products. For safety instructions to be heeded in regard to your programmable controller system as a whole, refer to the user's manual supplied with the MELSEC-Q Series CPU module you use.

In this manual, the safety precautions are ranked as "Warning" and "Caution."

⚠ WARNING Indicates an immediately hazardous situation which, if not properly dealt with, will result in death or serious injury.

⚠ CAUTION Indicates a hazardous situation which, if not properly deal with, will result in moderate or mild injury, or property damage alone.

Even a safety instruction marked with "⚠ Caution" could have serious consequences under certain conditions. All the safety instructions, regardless of their classification of criticality, carry important points to be noted. Observe them without fail.

Save this manual for reference when needed while at the same time ensuring that it is always passed on to the ultimate user.

[Precautions: Prior to use]

⚠ CAUTION

- When making a switch from the MELSEC-AnS Series to the MELSEC-Q Series, be sure to consult user's manual supplied with individual module under the MELSEC-Q Series to confirm differences in various aspects including performance and function between the two series.

[Installation Precautions]

⚠ CAUTION

- Use the Conversion Adaptor and the Base Adaptor in the environmental conditions that are specified in the general specification contained in the user's manual supplied with the MELSEC-Q Series CPU Module. If the Products are used in any environment beyond the bounds of the general specification, electric shock, fire, malfunction, or damage to or degradation of the Products will result.
- Do not touch live uninsulated part directly. Contact will cause malfunction or failure in the system.
- Fasten the Conversion Adaptor , the Fittings and the Base Adaptor securely with retaining screws, and tighten the screws by applying torque within specified limits. Loose screws can lead to the dropping of the converter adaptor, fittings, or base adaptor, possibly causing breakage thereof. Excessive tightness of the screws can lead to breakage of the screws, converter adaptor, fittings, base adaptor, or MELSEC-Q Series Module, possibly causing the dropping, shorting, and malfunction thereof.
- Always check for correct match between MELSEC-Q Series and the Conversion Adaptor. Incorrect match can cause damage to the MELSEC-Q Series module.
- When installing the converter adaptor, take care not to get your hand snagged on the fittings or the like. Injury may result.
- When installing or removing the MELSEC-Q Series Module complete with a converter adaptor, be sure to hold it with both hands. Dropping may lead to breakage.

[Wiring Precautions]

⚠ WARNING

- 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.
- When energizing the Products or putting them into operation after the completion of installation or wiring work, always have a cover placed over the terminal block for the MELSEC-AnS Series components. Without the cover placed in position, electric shock can result.

⚠ CAUTION

- Carry out wiring for the Conversion Adaptor correctly after checking the specification and terminal arrangement for the module used. Connecting a power supply with a different voltage rating or incorrect wiring may cause a fire or failure.
- Tighten the MELSEC-AnS Series terminal attaching screws and terminal screw secirely by applying torque within the specified limits. Loose screws will cause short circuit, fire or malfunction. Excessive tightening will damage the screws or the Conversion Adaptor which in turn will cause dropping of parts, short circuit or malfunction.
- Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adaptor or the MELSEC-Q Series module. These will be cause for fire, failure or malfunction.

[Startup and Maintenance Precautions]

⚠ WARNING

- Do not touch live terminals. There is a danger of electric shock or malfunction.
- Shut off the external power supply for the system in all phases before cleaning or retightening the terminal screws. Failure to do so may result in electric shock or cause the MELSEC-Q Series module to fail or malfunction. Loose screws can lead to dropping, shorting, and malfunction. Excessive tightness of the screws can lead to breakage of the screws, converter adaptor, fittings, base adaptor, or MELSEC-Q Series Module, possibly causing the dropping, shorting, and malfunction thereof.

⚠ CAUTION

- Do not modify the Conversion Adaptor or take it apart. Doing so will cause failure, malfunction, personal injury, or fire.
- The Conversion Adaptor comes in a resin case. Do not drop the Adaptor or give a strong impact to it. This will cause damage to the Adaptor.

[Disposal Precautions]

⚠ CAUTION

- When you dispose of the Products, handle them as industrial waste.

EMC AND LOW VOLTAGE DIRECTIVES

Compliance to the EMC Directive, which is one of the EU Directives, has been a legal obligation for the products sold in European countries since 1996 as well as the Low Voltage Directive since 1997. Manufacturers who recognize their products are compliant to the EMC and Low Voltage Directives are required to declare that print a "CE mark" on their products.

Authorized representative in Europe

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REVISION HISTORY

Date of print	* Number of User's Manual	Description
Apr 2011	50CM-D180041-A	The first version is printed.
Apr 2011	50CM-D180041-B	Correction SAFETY INSTRUCTIONS, Section 2.1, 3.1, 3.3, Appendix 4, Section 4.1,5.1

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1. General Description

This manual provides information about the Conversion Adaptor (ERNT-ASQTXY10/-ASQTX40/-ASQTX80/-ASQTY22/-ASQTY40/-ASQTY50/-ASQTY80) and the Base Adaptor (ERNT-ASQB38/-ASQB35/-ASQB33/-ASQB00J/-ASQB68/-ASQB65/-ASQB55) available as Renewal Tools for the Mitsubishi General-Purpose Programmable Controller.

The Conversion Adaptor is a product for effecting conversion to transcend difference in pin assignment between the MELSEC-AnS Series and the MELSEC-Q Series. The Base Adaptor is a product which enables a MELSEC-Q Series base module to be installed by utilizing the mounting holes in the MELSEC-AnS Series base module. (No additional drilling is needed.)

Before attempting to make a switch from MELSEC-AnS Series to MELSEC-Q Series in your installation, consult the user's manual supplied with individual module under the latter series to learn about how they differ in various aspects including performance and function.

Upon unpacking your Adaptors, check to see that the following items are included in their shipping carton.

(1) Conversion Adaptor

Item name	Quantity
Adaptor	1
Fittings	1
Fittings attaching screws (M3.5 x 6)	2
Terminal block cover	1

(2) Base Adaptor

Item name	Quantity
Base adaptor	1
Q base module attaching screws (M4 X 10)	4
Base Adaptor attaching screws (M5 X 12)	4

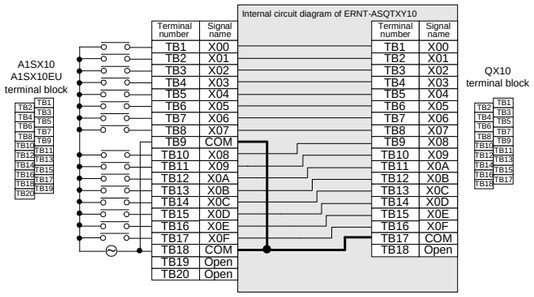
2. Product Specification

2.1 Conversion Adaptor

For detail specification and general specification which do not appear in the specification comparison charts contained herein, see the user's manual supplied with the MELSEC-Q Series module you use. Those parts of the specification that differ between the MELSEC-AnS Series and the MELSEC-Q Series are where a switch from the first series to the second is subjected to specification-related restrictions. Check the specification of the devices to be connected for more details.

Conversion Adaptor model name	MELSEC-AnS Series	Number of points	MELSEC-Q Series	Mass of Conversion Adaptor (g)
ERNT-ASQTXY10	A1SX10	16	QX10	75
	A1SX10EU			
	A1SY10	16	QY10	
	A1SY10EU			

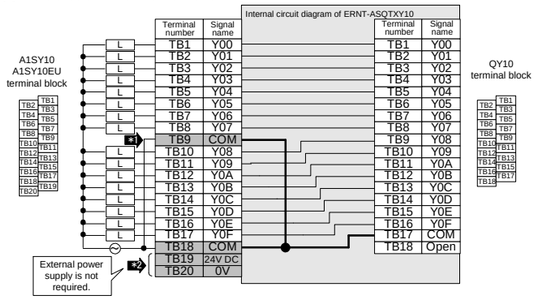
(a) In the case of A1SX10/A1SX10EU → QX10



<Specification Comparison Chart>

Specification \ Model	A1SX10	A1SX10EU	QX10
Number of output points	16	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation	Relay insulation
Rated open-close voltage/current	240VAC/2A (COSΦ=1) 24VDC/2A (resistive load) (8A/common)	240VAC/2A (COSΦ=1) 24VDC/2A (resistive load) (8A/common)	240VAC/2A (COSΦ=1) 24VDC/2A (resistive load) (8A/common)
Minimum open-close load	5VDC 1mA	5VDC 1mA	5VDC 1mA
Maximum open-close voltage	264VAC 125VDC	132VAC 125VDC	264VAC 125VDC
Response time OFF→ON	Less than 10ms	Less than 10ms	Less than 10ms
Response time ON→OFF	Less than 12ms	Less than 12ms	Less than 12ms
Surge killer	Not provided	Not provided	Not provided
Fuse	Not provided	Not provided	Not provided
Internal power consumption	120mA (TYP. ON at all points)	120mA (TYP. ON at all points)	430mA (TYP. ON at all points)
"Common/I" method	8 points/common	8 points/common	16 points/common
External connection method	20-point terminal block	20-point terminal block	18-point terminal block

(b) In the case of A1SY10/A1SY10EU → QY10



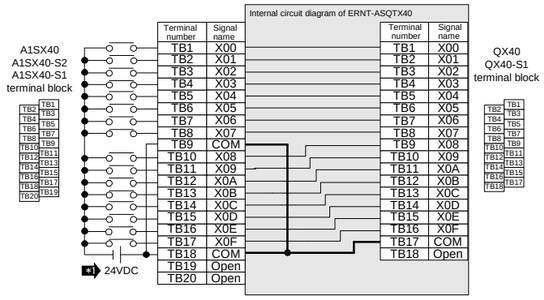
POINT

- ※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 terminal numbers TB9 and TB18 on the MELSEC-AnS-side terminal block have been used in separation from each other.
- ※2 External power supply connected to the terminal numbers TB19 and TB20 on the MELSEC-AnS-side terminal block becomes unnecessary.

<Specification Comparison Chart>

Specification \ Model	A1SY10	A1SY10EU	QY10
Number of output points	16	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation	Relay insulation
Rated open-close voltage/current	240VAC/2A (COSΦ=1) 24VDC/2A (resistive load) (8A/common)	240VAC/2A (COSΦ=1) 24VDC/2A (resistive load) (8A/common)	240VAC/2A (COSΦ=1) 24VDC/2A (resistive load) (8A/common)
Minimum open-close load	5VDC 1mA	5VDC 1mA	5VDC 1mA
Maximum open-close voltage	264VAC 125VDC	132VAC 125VDC	264VAC 125VDC
Response time OFF→ON	Less than 10ms	Less than 10ms	Less than 10ms
Response time ON→OFF	Less than 12ms	Less than 12ms	Less than 12ms
Surge killer	Not provided	Not provided	Not provided
Fuse	Not provided	Not provided	Not provided
Internal power consumption	120mA (TYP. ON at all points)	120mA (TYP. ON at all points)	430mA (TYP. ON at all points)
"Common/I" method	8 points/common	8 points/common	16 points/common
External connection method	20-point terminal block	20-point terminal block	18-point terminal block

Conversion Adaptor model name	MELSEC-AnS Series	Number of points	MELSEC-Q Series	Mass of Conversion Adaptor (g)
ERNT-ASQTX40	A1SX40	16	QX40	75
	A1SX40-S2			
	A1SX40-S1		QX40-S1	



POINT

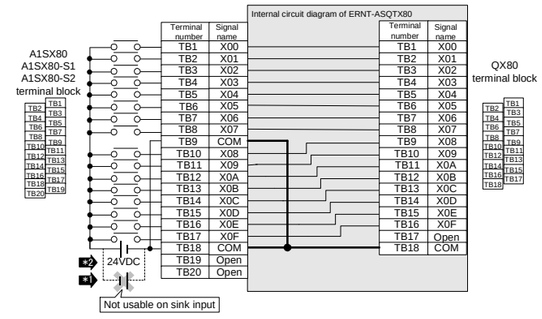
- ※1 If your system is set to run on a rated input voltage of 12VDC when you make a switch from A1SX40 to QX40, it must be reset to run on 24VDC.

<Module Specification Comparison Chart>

Specification \ Model	A1SX40 (Sink type)	A1SX40-S2 (Sink type)	QX40 (Positive common type)
Number of input points	16	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation	Photocoupler insulation
Rated input voltage	12VDC/24VDC	24VDC	24VDC (+20/-15%, ripple rate within 5%)
Rated input current	About 3mA/about 7mA	about 7mA	about 4mA
ON voltage/ON current	More than 8VDC/more than 2mA	More than 14VDC/more than 3.5mA	More than 19VDC/more than 3mA
OFF voltage/OFF current	Less than 4VDC/less than 1mA	Less than 6.5VDC/less than 1.7mA	Less than 11VDC/less than 1.7mA
Input resistance	About 3.3kΩ	About 3.3kΩ	About 5.6kΩ
Response time OFF→ON	Less than 10ms	Less than 10ms	Less than 1/5/10/20/70ms
Response time ON→OFF	Less than 10ms	Less than 10ms	Less than 1/5/10/20/70ms
Internal power consumption	50mA (TYP. ON at all points)	50mA (TYP. ON at all points)	50mA (TYP. ON at all points)
"Common" method	16 points/common	16 points/common	16 points/common
External connection method	20-point terminal block	20-point terminal block	18-point terminal block

Specification \ Model	A1SX40-S2 (Sink type)	QX40-S1 (Positive common type)
Number of input points	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation
Rated input voltage	24VDC	24VDC (+20/-15%, ripple rate within 5%)
Rated input current	About 7mA	about 6mA
ON voltage/ON current	More than 14VDC/more than 4mA	More than 19VDC/more than 4mA
OFF voltage/OFF current	Less than 6.5VDC/less than 1.7mA	Less than 11VDC/less than 1.7mA
Input resistance	About 3.3kΩ	About 3.9kΩ
Response time OFF→ON	Less than 0.1ms	Less than 0.1/0.2/0.4/0.6/1ms
Response time ON→OFF	Less than 0.2ms	Less than 0.1/0.2/0.4/0.6/1ms
Internal power consumption	50mA (TYP. ON at all points)	60mA (TYP. ON at all points)
"Common" method	16 points/common	16 points/common
External connection method	20-point terminal block	18-point terminal block

Conversion Adaptor model name	MELSEC-AnS Series	Number of points	MELSEC-Q Series	Mass of Conversion Adaptor (g)
ERNT-ASQTX80	A1SX80	16	QX80	75
	A1SX80-S1			
	A1SX80-S2			



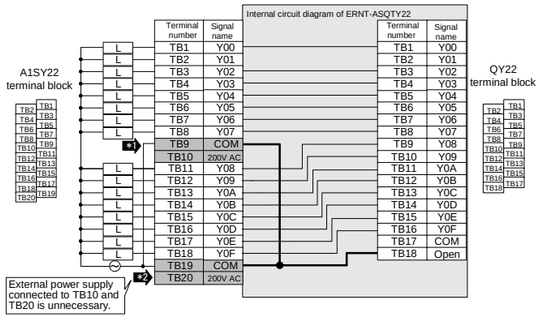
POINT

- ※1 Use the Adaptor to run on the source input. (The Adaptor cannot be used to run on a sink input.)
- ※2 If your system is set to run on a rated input voltage of 12VDC when you make a switch from A1SX80 to QX80, it must be reset to run on 24VDC.

<Module Specification Comparison Chart>

Specification \ Model	A1SX80 (Sink/Source type)	A1SX80-S1 (Sink/Source type)	A1SX80-S2 (Sink/Source type)	QX80 (Negative Common type)
Number of input points	16	16	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation	Photocoupler insulation	Photocoupler insulation
Rated input voltage	12VDC/24VDC	24VDC	24VDC	24VDC (+20/-15%, ripple rate within 5%)
Rated input current	About 3mA/about 7mA	about 7mA	about 7mA	about 4mA
ON voltage/ON current	More than 8VDC /more than 2mA	More than 17VDC /more than 5mA	More than 13VDC /more than 3.5mA	More than 19VDC /more than 3mA
OFF voltage/OFF current	Less than 4VDC /less than 1mA	Less than 5VDC /less than 1.7mA	Less than 6VDC /less than 1.7mA	Less than 11VDC /less than 1.7mA
Input resistance	About 3.3kΩ	About 3.3kΩ	About 3.3kΩ	About 5.6kΩ
Response time OFF→ON	Less than 10ms	Less than 0.4ms	Less than 10ms	Less than 1/5/10/20/70ms
Response time ON→OFF	Less than 10ms	Less than 0.5ms	Less than 10ms	Less than 1/5/10/20/70ms
Internal power consumption	50mA (TYP. ON at all points)	50mA (TYP. ON at all points)	50mA (TYP. ON at all points)	50mA (TYP. ON at all points)
"Common" method	16 points/common	16 points/common	16 points/common	16 points/common
External connection method	20-point terminal block	20-point terminal block	20-point terminal block	18-point terminal block

Conversion Adaptor model name	MELSEC-AnS Series	Number of points	MELSEC-Q Series	Mass of Conversion Adaptor (g)
ERNT-ASQTY22	A1SY22	16	QY22	75



POINT

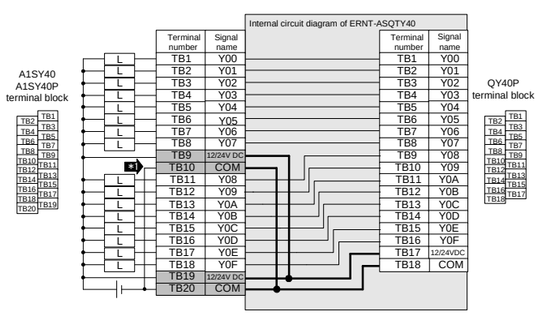
*1 Because the switch concerned causes the number of points per common to change from 8 (two circuits) to 16, an alteration to the wiring is required if the terminal numbers TB9 and TB19 on the MELSEC-AnS-side terminal block have been used in separation from each other.

*2 External power supply connected to the terminal numbers TB10 and TB20 on the MELSEC-AnS-side terminal block becomes unnecessary.

<Module Specification Comparison Chart>

Specification \ Model	A1SY22	QY22
Number of output points	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation
Rated load voltage	100/240VAC	100-240VAC (+10-15%)
Maximum load current	0.6A/point 2.4A/common	0.6A/point 4.8A/common
Minimum load voltage/current	24VAC 100mA 100VAC 10mA 240VAC 20mA	24VAC 100mA 100VAC 25mA 240VAC 25mA
Maximum in-rush current	Less than 20A - 10ms, less than 8A - 100ms	Less than 20A - one cycle
Leak current at power-off	1.5mA (at 120V/60Hz) 3mA (at 240V/60Hz)	1.5mA (at 120V/60Hz) Less than 3mA (at 240V/60Hz)
Maximum voltage drop at power-on	Less than 1.5VAC (0.1-0.6A) Less than 1.8VAC (50-100mA) Less than 2VAC (10-50mA)	Less than 1.5VAC
Response time OFF→ON	Less than 1ms	Less than 1ms
Response time ON→OFF	Less than 0.5Hz+1ms	Less than 1ms+0.5 cycles
Surge killer	CR absorber	CR absorber
Fuse	5A (one/common), non-replaceable	Not provided (It is recommended that a fuse be installed on the external wiring.)
Internal power consumption	270mA (TYP, ON at all points)	250mA (TYP, ON at all points)
"Common" method	8 points/common	16 points/common
External connection method	20-point terminal block	18-point terminal block

Conversion Adaptor model name	MELSEC-AnS Series	Number of points	MELSEC-Q Series	Mass of Conversion Adaptor (g)
ERNT-ASQTY40	A1SY40 A1SY40P	16	QY40P	75



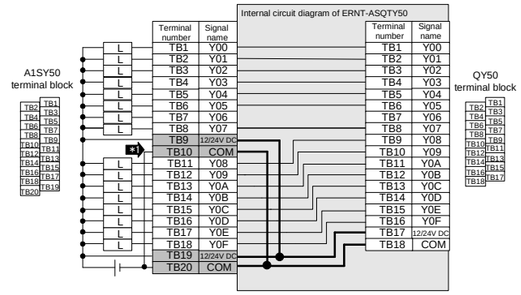
POINT

*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 terminal numbers TB9 and TB19, and TB10 and TB20, on the MELSEC-AnS-side terminal block have been used in separation from each other.

<Module Specification Comparison Chart>

Specification \ Model	A1SY40 (Sink type)	A1SY40P (Sink type)	QY40P (Sink type)
Number of output points	16	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation	Photocoupler insulation
Rated load voltage	12/24VDC	12/24VDC	12-24VDC
Maximum load current	0.1A/point 0.8A/common	0.1A/point 0.8A/common	0.1A/point 1.6A/common
Maximum in-rush current	Less than 0.4A - 10ms	Less than 0.7A - 10ms	Less than 0.7A - 10ms
Leak current at power-off	Less than 0.1A	Less than 0.1A	Less than 0.1A
Maximum voltage drop at power-on	1.0VDC(TYP) 0.1A 2.5VDC(MAX) 0.1A	0.1VDC(TYP) 0.1A 0.2VDC(MAX) 0.1A	0.1VDC(TYP) 0.1A 0.2VDC(MAX) 0.1A
Response time OFF→ON	Less than 2ms	Less than 1ms	Less than 1ms
Response time ON→OFF	Less than 2ms (resistive load)	Less than 1ms (rated load and resistive load)	Less than 1ms (rated load and resistive load)
Surge killer	Zener diode	Zener diode	Zener diode
Fuse	1.6A (one/common), non-replaceable	Not provided	Not provided
Internal power consumption	270mA (TYP, ON at all points)	78mA (TYP, ON at all points)	65mA (TYP, ON at all points)
Protective function	Not provided	Provided (overheat protection and short-circuit protection)	Provided (overload protection and overheat protection)
"Common" method	8 points/common	8 points/common	16 points/common
External connection method	20-point terminal block	20-point terminal block	18-point terminal block

Conversion Adaptor model name	MELSEC-AnS Series	Number of points	MELSEC-Q Series	Mass of Conversion Adaptor (g)
ERNT-ASQTY50	A1SY50	16	QY50	75



POINT

*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 terminal numbers TB9 and TB19, and TB10 and TB20, on the MELSEC-AnS-side terminal block have been used in separation from each other.

<Module Specification Comparison Chart>

Specification \ Model	A1SY50 (Sink type)	QY50 (Sink type)
Number of output points	16	16
Insulation method	Photocoupler insulation	Photocoupler insulation
Rated load voltage	12/24VDC	12-24VDC
Maximum load current	0.5A/point 2A/common	0.5A/point 4A/common
Maximum in-rush current	Less than 0.4A - 10ms	Less than 0.4A - 10ms
Leak current at power-off	Less than 0.1A	Less than 0.1A
Maximum voltage drop at power-on	0.9VDC(TYP) 0.5A 1.5VDC(MAX) 0.5A	0.2VDC(TYP) 0.5A 0.3VDC(MAX) 0.5A
Response time OFF→ON	Less than 2ms	Less than 1ms
Response time ON→OFF	Less than 2ms (resistive load)	Less than 1ms (rated load and resistive load)
Surge killer	Zener diode	Zener diode
Fuse	Provided	6.7A (non-replaceable)
Internal power consumption	120mA (TYP, ON at all points)	80mA (TYP, ON at all points)
"Common" method	8 points/common	16 points/common
External connection method	20-point terminal block	18-point terminal block

2.2 Base Adaptor

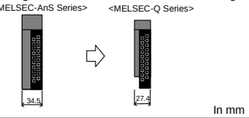
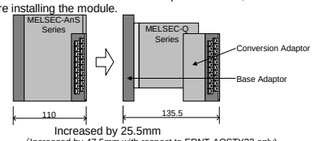
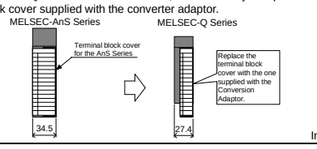
Base Adaptor model name	Specification			
	Compatible modules		Outer dimensions (mm)	Mass (g)
	MELSEC-AnS	MELSEC-Q		
ERNT-ASQB38	A1S38B	Q38B	127(H)×430(W)×14(D)	868
ERNT-ASQB35	A1S35B	Q35B	127(H)×325(W)×14(D)	660
ERNT-ASQB33	A1S33B	Q33B	127(H)×255(W)×14(D)	529
ERNT-ASQB00J	A1SJCPU/A1SJCPU-S3/A1SJHCPU	Q00JCPU Q00UJCPU	127(H)×330(W)×14(D)	670
ERNT-ASQB68	A1S68B	Q68B	127(H)×420(W)×14(D)	839
ERNT-ASQB65	A1S65B	Q65B	127(H)×315(W)×14(D)	640
ERNT-ASQB55	A1S55B	Q55B	127(H)×260(W)×14(D)	537

3. Mounting and Installation

3.1 Handling Instructions

(1) 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.
(2) Do not touch live terminals. There is a danger of electric shock or malfunction.
(3) Do not modify the Conversion Adaptor or take it apart. Doing so will cause failure, malfunction, personal injury, or fire.
(4) Do not touch the energized part of the Conversion Adaptor directly. Contact will cause malfunction or failure in the system.
(5) Fasten the Conversion Adaptor , the Fittings and the Base Adaptor securely with retaining screws, and tighten the screws by applying torque within specified limits. Loose screws can lead to the dropping of the converter adaptor, fittings, or base adaptor, possibly causing breakage thereof. Excessive tightness of the screws can lead to breakage of the screws, converter adaptor, fittings, base adaptor, or MELSEC-Q Series Module, possibly causing the dropping, shorting, and malfunction thereof.
(6) Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adaptor or the MELSEC-Q Series module. These will be cause for fire, failure or malfunction.
(7) Do not drop the Conversion Adaptor, Fittings and the Base Adaptor, and avoid giving a strong impact to them. Otherwise, breakage will result.
(8) If the existing system is installed on a DIN rail, the Base Adaptor is not necessary. The MELSEC-Q Series Base Module you use can be mounted onto the DIN rail.

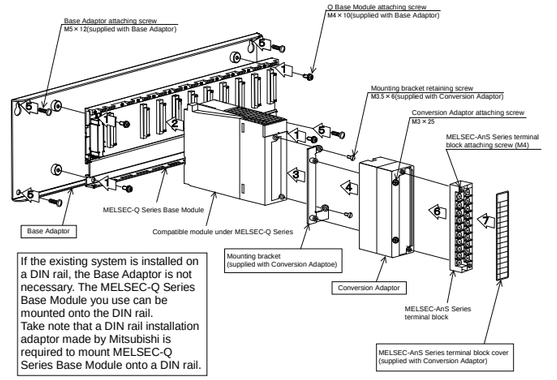
3.2 Instructions for Use

Item	Description
Width dimension of module	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.  In mm
Depth dimension of module	Because the module is increased in depth dimension, check dimensional data before installing the module.  Increased by 25.5mm (Increased by 47.5mm with respect to ERNT-AQSTY22 only) In mm
Terminal block cover	The terminal block cover for MELSEC-AnS Series is bigger than the width of the MELSEC-Q Series Module. Therefore, it is necessary to replace it with the terminal block cover supplied with the converter adaptor.  In mm

3.3 Installation Environment

For detail information, see the user's manual furnished with the MELSEC-Q Series CPU module you use.

4. Part Names and Installation Procedure



4.1 Installation Procedure

[1] Secure the MELSEC-Q Series Base Module to the Base Adaptor with the supplied attaching screws (M4 x 10). (Secure it in four places.)
[2] Mount a compatible module under the MELSEC-Q Series onto the MELSEC-Q Series Base Module.
[3] Secure the mounting bracket to a compatible module under the MELSEC-Q Series with retaining screws (M3.5 x 6). (Secure it in two places, top and bottom.)
[4] Mount the Conversion Adaptor onto the mounting bracket and secure it with the Conversion Adaptor attaching screws (M3 x 25). (Secure it in two places, top and bottom.)
[5] Secure the Base Adaptor to the panel with the supplied attaching screws (M5 x 12). (Secure it in four places.)
[6] Secure the MELSEC-AnS Series terminal block to the Conversion Adaptor with the supplied attaching screws (M4).
[7] Remove the terminal block cover from the MELSEC-AnS Series terminal block and fit the terminal block cover supplied with the Conversion Adaptor in place.

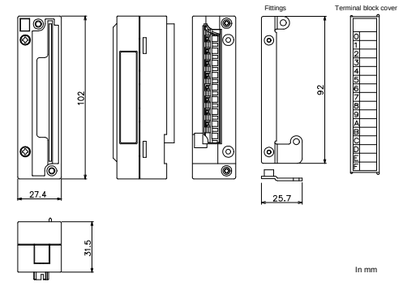
4.2 Tightening Torque

Tighten the module attaching screws by applying torque listed in the table blow. Application of improper tightening torque will cause dropping, short-circuit, failure, or malfunction.

Component attached with screw	Range of tightening torque
Base Adaptor attaching screw (M5)	2.75 – 3.63N·m
Q Series module attaching screw (M4)	1.39 – 1.89N·m
Mounting bracket securing screw (M3.5)	0.68 – 0.92N·m
Conversion Adaptor attaching screw (M3)	0.43 – 0.57N·m
MELSEC-AnS Series terminal block attaching screw (M4)	0.78 – 1.18N·m

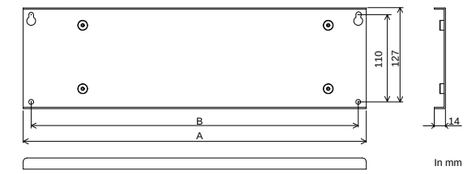
5. Dimensional Outline Drawing

5.1 Conversion Adaptor



In mm

5.2 Base Adaptor



In mm

Base Adaptor model name	A (mm)	B (mm)
ERNT-ASQB38	430	410
ERNT-ASQB35	325	305
ERNT-ASQB33	255	235
ERNT-ASQB00J	330	310
ERNT-ASQB68	420	400
ERNT-ASQB65	315	295
ERNT-ASQB55	260	240

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

(1) 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.
(2) 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 Apr 2011. Specifications are subject to change without notice. The standard price does not include consumption tax. Please note that consumption tax will be added at the time of purchase. This manual was printed on recycled paper.

Developed Apr 2011
50CM-D180020-B