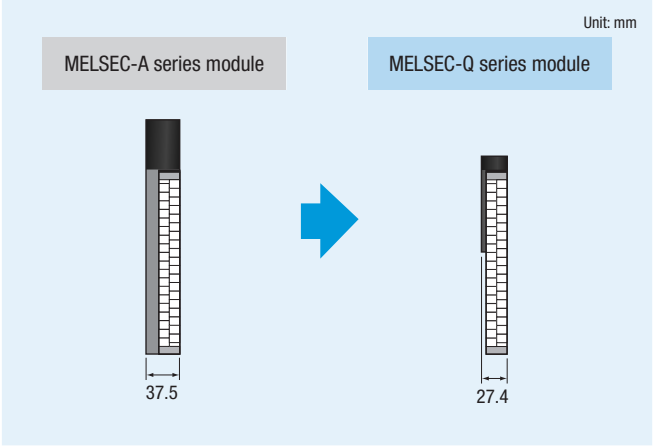
Precautions

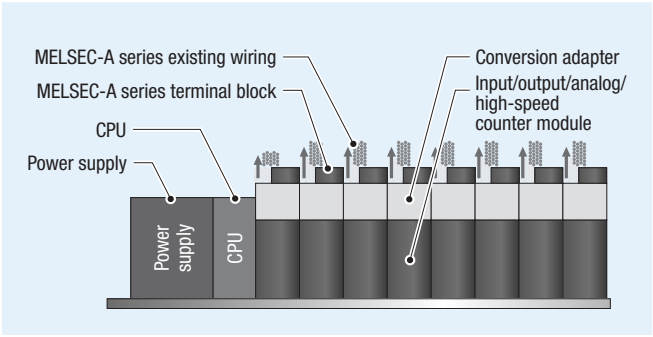
A conversion adapter is used to compensate the difference of the pin assignment when MELSEC-A series large type modules are replaced with MELSEC-Q series modules.
Before using the product, please read the user's manual for the conversion adapter used. (The user's manuals can be downloaded from our website.)
When replacing the MELSEC-A series with the MELSEC-Q series, refer to the user's manuals for each MELSEC-Q series module to check the differences in performance, functionality, input/output signals to/from the CPU module, and buffer memory addresses.
Also, refer to the Transition from MELSEC-A/QnA (Large Type) Series to Q Series Handbook published by Mitsubishi Electric. (Recommended)

Module width

(1) Since the width of MELSEC-Q series modules is smaller (MELSEC-A series: 37.5mm → MELSEC-Q series: 27.4mm), the wiring area becomes smaller as well. Check the wiring area when mounting a conversion adapter.

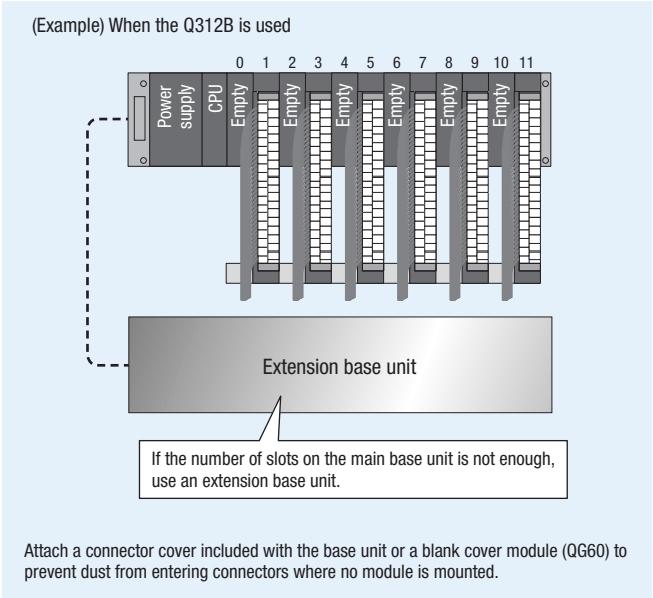


(2) If the wiring causes interference with adjacent modules, lift the cables forward to prevent interference.



(3) If interference still occurs, leave the next slot open to secure a space for wiring.

(Example) When the Q312B is used



Attach a connector cover included with the base unit or a blank cover module (QG60) to prevent dust from entering connectors where no module is mounted.

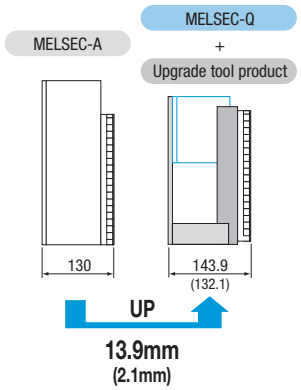
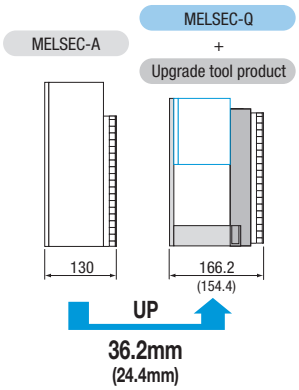
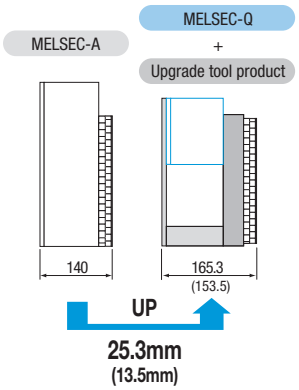
(4) If modules cannot be replaced in accordance with (2) and (3), consider the use of the Q series large type base unit manufactured by Mitsubishi Electric. → P.13
Note) 2-slot type conversion adapters cannot be used.

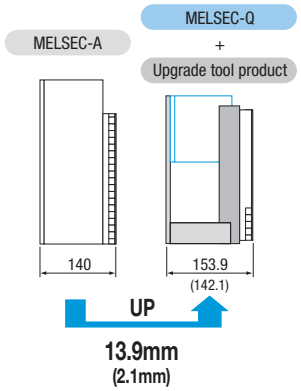
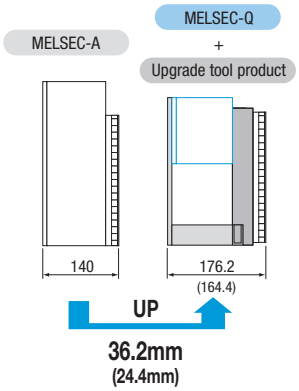
Depth

The depth from the panel surface after replacement is shown below. The depth from the panel surface increases. Check the depth when mounting a conversion adapter.
Values in parentheses (shorter by 11.8mm) are the dimensions when a base adapter is not used or when a standard base unit is used instead of a Q series large type base unit manufactured by Mitsubishi Electric.

MELSEC-A series: Base unit + Input/output/analog/high-speed counter module + Terminal block/connector
MELSEC-Q series + Upgrade tool product: Base adapter + Base unit + Input/output/analog/high-speed counter module + Conversion adapter + Terminal block/connector

MELSEC-A : MELSEC-A series MELSEC-Q : MELSEC-Q series

Conversion adapter	ERNT-AQTX10 ERNT-AQTX40 ERNT-AQTX80 ERNT-AQTY10 ERNT-AQTY40 ERNT-AQTY50 ERNT-AQTY80	ERNT-AQTY22 ERNT-AQT62DA	ERNT-AQTX41 ERNT-AQTX81 ERNT-AQTY41 ERNT-AQTY81 ERNT-AQTD61
Depth	143.9mm (132.1mm)	166.2mm (154.4mm)	165.3mm (153.5mm)
Mounting diagram			

Conversion adapter	ERNT-AQTX11 ERNT-AQTY10A ERNT-AQTY13 ERNT-AQTY51 ERNT-AQT68AD ERNT-AQT68ADN ERNT-AQT616AD	ERNT-AQTY23 ERNT-AQT68AD-GH ERNT-AQT68DA ERNT-AQT616DA
Depth	153.9mm (142.1mm)	176.2mm (164.4mm)
Mounting diagram		

Conversion adapter support flange, base adapter

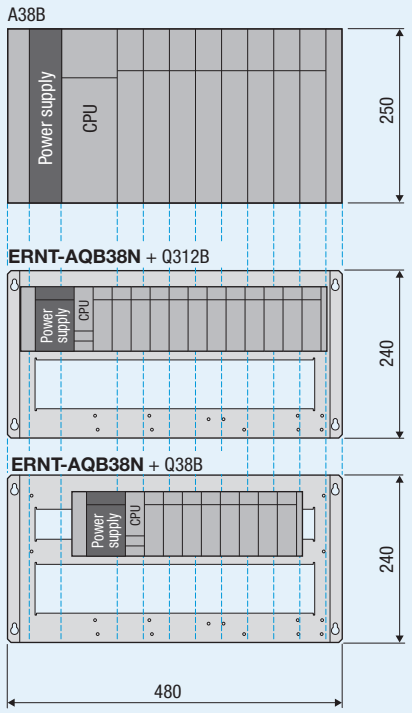
A conversion adapter support flange is always required when a conversion adapter is used.
The use of a base adapter is recommended because the MELSEC-Q series can be installed using the MELSEC-A series base unit installation holes.

Slot positions

The slot positions differ between the MELSEC-A series modules before replacement and the MELSEC-Q series modules after replacement. Change the slot positions of modules and adjust wiring lengths prior to use.

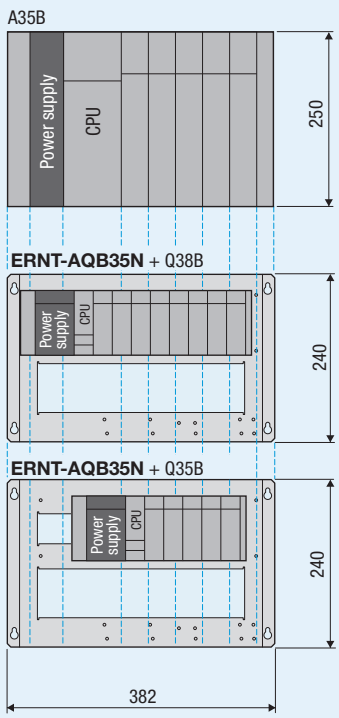
(1) A38B(-UL/-E)/A38HB(EU) → Q312B, Q38B

Unit: mm



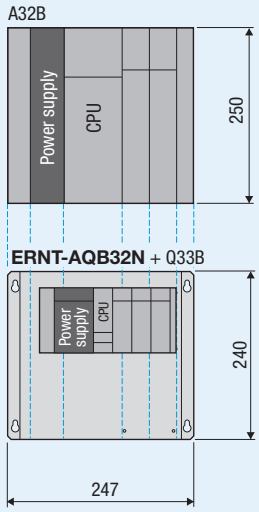
(2) A35B(-UL/-E) → Q38B, Q35B

Unit: mm



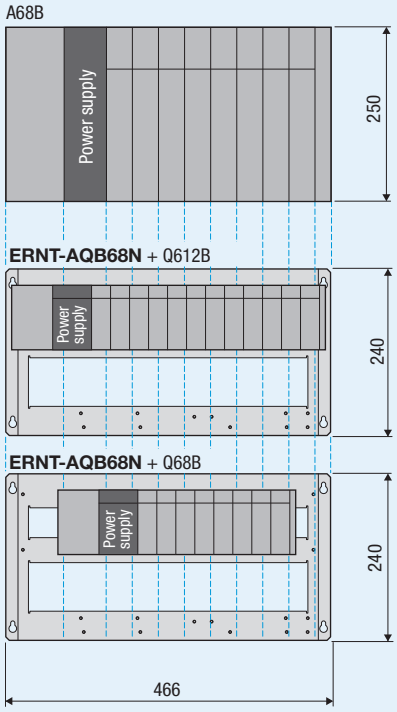
(3) A32B(-UL/-E) → Q33B

Unit: mm



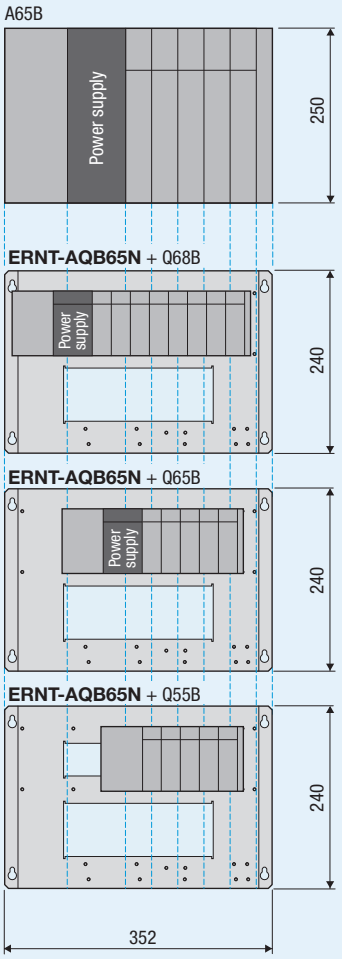
(4) A68B(-UL) → Q612B, Q68B

Unit: mm



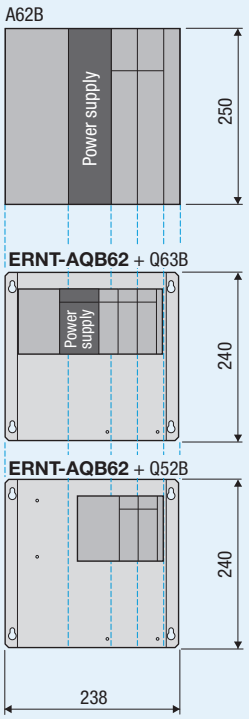
(5) A65B(-UL) → Q68B, Q65B, Q55B

Unit: mm



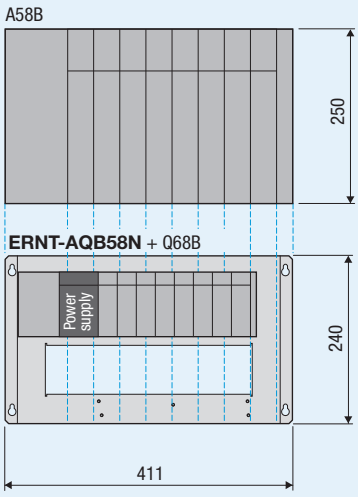
(6) A62B → Q63B, Q52B

Unit: mm



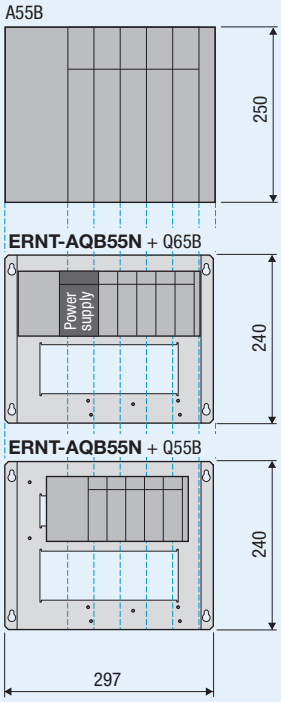
(7) A58B(-UL) → Q68B

Unit: mm



(8) A55B(-UL) → Q65B, Q55B

Unit: mm



(9) A52B → Q52B

Unit: mm