General-purpose PLC ightarrow MELSEC-Q series Upgrade tool "Universal conversion adapter"

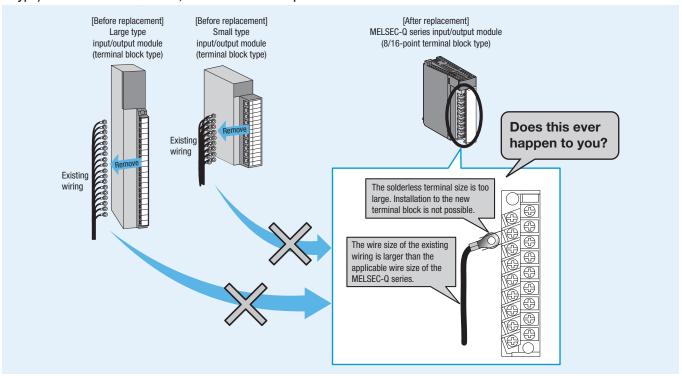
Replacing general-purpose PLC with the MELSEC-Q series

Universal conversion adapter

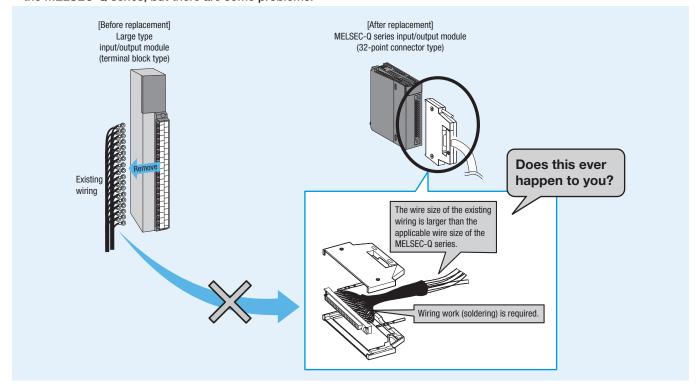
The universal conversion adapter reduces the time required for rewiring input/output modules (terminal block type) when replacing a general-purpose PLC with the MELSEC-Q series programmable controller manufactured by Mitsubishi Electric.

Product overview

• You want to replace input/output modules (terminal block type) of a general-purpose PLC with those (terminal block type) of the MELSEC-Q series, but there are some problems.



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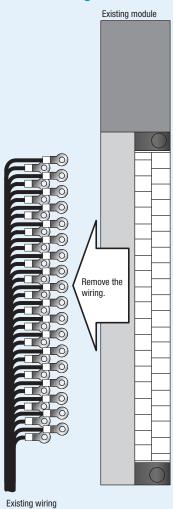
Consider the use of the universal conversion adapter as a solution.

If the specifications of the devices currently connected satisfy the specifications of the MELSEC-Q series input/output module, you can use the universal conversion adapter for replacement, regardless of the manufacturer of the PLC!

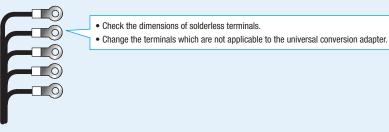
Note that this product is designed under the premises that rewiring (reinstallation of existing wiring to the terminal block) will be performed by the user.

Replacement procedure

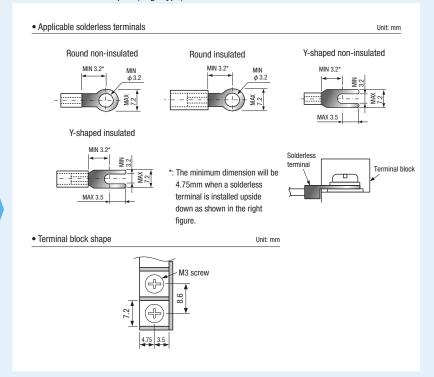
1) Remove the wiring from the terminal block of the existing module.



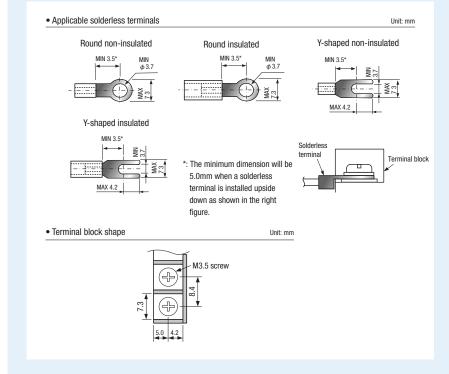




Universal conversion adapter (large type)



Universal conversion adapter (small type)



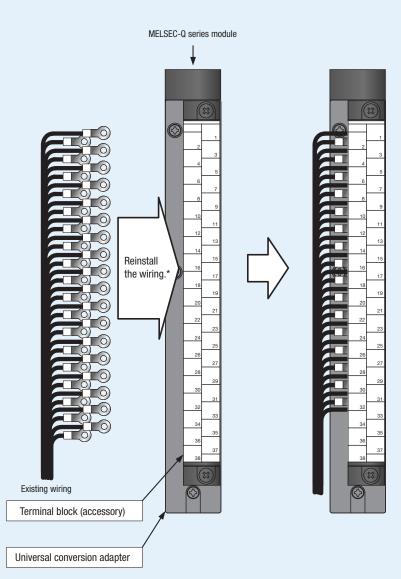
For programmable controllers

3) Reinstall the removed wiring to the terminal block of the universal conversion adapter.

Check the external connection diagram of each MELSEC-Q series module used, and reinstall the removed wiring to the terminal block of the universal conversion adapter.

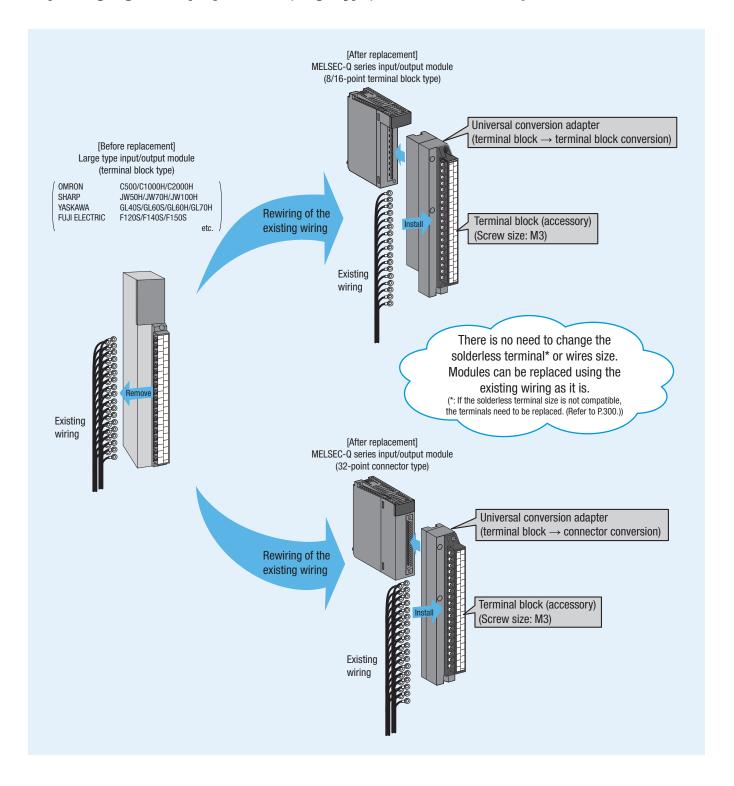
External connection diagram (example)

Terminal block Terminal block TERM			Terminal No.	Signal name
Terminal block TES TES X00 X01 TES X01 TES X01 TES X02 TES X04 TES TES X04 TES TES X04 TES TES X04 TES TES X05 TES TES X06 X07 TES X07 TES X08 TES X08 TES X08 TES X09 TES X08 TES X09 TES X08 TES X08 TES X08 TES TES X08 TES TES X08 TES TES X08 TES TES TES TES TES TES TES TE		<u> </u>	TB1	X00
Terminal block			TB2	X01
TB1			TB3	X02
TB1	Terminal block		TB4	X03
TB2	Torrillia blook		TB5	X04
X01 TB3 X02 X03 TB4 X05 TB9 X08 X05 TB9 X08 X05 TB9 X08 X05 TB9 X08 X05 TB10 X09 TB10 X09 X09 TB10 X09 X09 TB10 X09 X09 TB10 X08 X09 TB11 X0A X08 TB12 X0B X09 TB12 X0B X09 TB14 X0D X08 X09 TB15 TB16 X0E X00 TB15 TB16 X0E X00 TB15 TB16 X0E X00 TB17 X10 X11 TB18 X10 X11 TB18 X10 X11 TB19 X12 X13 TB21 X14 X15 TB22 X14 X15 TB23 X16 X17 TB26 X18 X19 TB27 TB28 X18 X19 TB27 TB28 X18 X19 TB27 TB28 X18 X19 TB29 X16 X16 X17 TB33 X16 X16 X17 TB33 X16 X16 X17 TB33 X16 X16 X17 TB33 X16 X18 TB29 X16 X18 TB29 X16 X18 TB29 X16 TB29 X16 TB33 X16			TB6	X05
TB4			TB7	X06
TB6			TB8	X07
X05 TE7 TB8	X03 TB5		TB9	X08
TB8	TB6 X04	—	TB10	X09
X07 TB9 X08 X09 TB10 X08 X09 TB11 X00 X08 TB12 X00 TB12 X00 TB14 X0D X08 TB14 X0D X08 TB15 X0E X05 TB16 X0F X10 X11 TB18 X10 X11 TB18 X10 X11 TB19 X12 X13 TB20 X12 X13 TB22 X14 X15 TB22 X15 X16 X17 TB25 X18 X19 TB27 X16 X19 TB27 X16 X19 TB28 X16 X19 TB29 X16 X15 TB28 X16 X15 TB28 X16 X15 TB28 X18 X18 TB29 X16 X16 X17 TB31 X16 X17 TB31 X16 X16 X17 TB31 X16 X16 X17 TB31 X16 X17 X18 X18 X17 X18 X18 X18 X11 X17 X18 X			TB11	X0A
Non TB12	X07TB9		TB12	X0B
TB12		— —	TB13	X0C
TB14		├ ┈	TB14	X0D
XOD TB15 XOF TB16 XOF TB17 X10 XOF TB18 X11 TB18 X11 TB18 X11 TB18 X12 TB20 X13 X13 TB21 TB22 X14 X15 TB22 X14 X15 TB26 X18 X19 TB26 X18 X19 TB27 TB28 X1A X1B TB28 X1A X1B TB29 X1C X1D TB31 X1D TB31 TB32 X1E X1F TB33 X1G X1D TB31 X1E TB28 X1B TB32 X1E X1F TB33 COM TB34 Component Componen	X0B TB13	—	TB15	X0E
TB16		— —	TB16	X0F
XOF TB17		├ ┈	TB17	X10
TB18	X0F TB17	— —	TB18	X11
TB20		├ ┈		
X13 TB21		—	TB20	X13
TB24	X13 TB21		TB21	X14
TB24		— —	TB22	X15
TB26		— —	TB23	X16
X19 TB27	X17 TB25	— —	TB24	X17
TB28		├ ┈	TB25	X18
X1B TB29 TB30 X1C X1D TB31 X1E TB32 X1E X1F TB33 TB34 COM Open TB35 Open Open COpen COpe			TB26	X19
X1D TB31 TB32 X1E TB29 X1C X1F TB33 TB34 COM COM TB35 TB36 Open Open TB37 TB38 Open Open TB37 Open TB36 Open TB36 Open TB36 Open TB36 Open TB37 Open Open TB37 Open	X1B TB29		TB27	X1A
TB32		—	TB28	X1B
X1F TB33		—	TB29	X1C
R34			TB30	X1D
TB36				X1E
TB37 TB38 COM			TB32	X1F
Open 24VDC 1B34 Open TB35 Open TB36 Open TB37 Open	Open TB37	<u> </u>	TB33	СОМ
TB35 Open TB36 Open TB37 Open Open TB37 Open		24VDC	TB34	Open
TB36 Open TB37 Open	Oben	24100	TB35	
TB37 Open			TB36	
			TB37	
IB38 Open			TB38	Open



- *: After replacement, connect wires in accordance with the terminal numbers and signal names of the universal conversion adapter.
- *: Depending on the change in the number of points per common (for example 8 points/common ightarrow16 points/common), the connected devices (such as switches) may also need to be changed.
- *: When any wires are left unconnected, connect them to open terminals or insulate them.

Replacing a general-purpose PLC (large type) with the MELSEC-Q series



Replacing a general-purpose PLC (small type) with the MELSEC-Q series

