Modules that can be replaced using a universal conversion adapter

- The universal conversion adapter can be used to replace the MELSEC-A series, MELSEC-AnS series, SYSMAC C series, new satellite JW series, and MEMOCON-SC GL series modules that do not support the use of a conversion adapter with the MELSEC iQ-R series modules.
- The universal conversion adapter can also be used to replace the modules that share each common terminal by 8 points with the common separation modules (RX40PC6H, RX40NC6H).

POINT

Check that the specifications of MELSEC iQ-R series modules satisfy the specifications of the devices and equipment currently connected.

MELSEC-A series → MELSEC iQ-R series

Modules that do not support the use of a conversion adapter

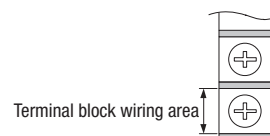| Input/Output | MELSEC-A series module before replacement | | | MELSEC iQ-R series module after replacement | | | |
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules
Input	AX20, AX20-UL	200 to 240VAC	16	RX28	100 to 240VAC	8	2
	AX21, AX21EU	200 to 240VAC	32	RX28	100 to 240VAC	8	4
Output	AY15EU	240VAC/24VDC, 2A/point, contact	24	RY10R2	240VAC/24VDC, 2A/point, contact	16	2
	AY20EU	100 to 240VAC, triac	16	RY20S6	100 to 240VAC, triac	16	1
	AY40A	12/24VDC, 0.3A, independent	16	RY18R2A	240VAC/24VDC, 2A, independent contact	8	2
	AY60	24VDC (12/48VDC), 2A	16	RY18R2A	240VAC/24VDC, 2A, independent contact	8	2
	AY60E	24VDC (12/48VDC), 2A	16	RY18R2A	240VAC/24VDC, 2A, independent contact	8	2
	AY60EP	12/24VDC, 2A	16	RY18R2A	240VAC/24VDC, 2A, independent contact	8	2
	AY60S, AY60S-UL	24/48VDC (12VDC), 2A	16	RY18R2A	240VAC/24VDC, 2A, independent contact	8	2

Modules that share each common terminal by 8 points

| Input/Output | MELSEC-A series module before replacement | | | MELSEC iQ-R series module after replacement | | | |
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	AX40, AX40-UL	12/24VDC, sink type, 8 points/common	16	RX40PC6H	24VDC, positive common, 8 points/common	16	1
	AX80, AX80-UL AX80E	12/24VDC, source type, 8 points/common	16	RX40NC6H	24VDC, negative common, 8 points/common	16	1

*: Input specifications: Sink type = Positive common, Source type = Negative common

Reference: Terminal block specifications

Item	MELSEC-A series module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3	M3	M3
Terminal block wiring area	7.2mm	6mm	7.2mm

Terminal block wiring area

MELSEC-AnS series → MELSEC iQ-R series

Modules that do not support the use of a conversion adapter

| Input/Output | MELSEC-AnS series module before replacement | | | MELSEC iQ-R series module after replacement | | | | Note |
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules	
Output	A1SY14EU	240VAC/24VDC, 2A/point, contact	12	RY10R2	240VAC/24VDC, 2A/point, contact	16	1	-
	A1SY18A A1SY18AEU	240VAC/24VDC, 2A/point, independent contact	8	RY18R2A	240VAC/24VDC, 2A/point, independent contact	8	1	
	A1SY28EU	100 to 240VAC, triac	8	RY20S6	100 to 240VAC, triac	16	1	
	A1SY60	24VDC, 2A/point, sink type	16	RY10R2	240VAC/24VDC, 2A/point, contact	16	1	*1
	A1SY60E	5/12/24VDC, 2A/point, source type	16	RY10R2	240VAC/24VDC, 2A/point, contact	16	1	
	A1SY68A	5/12/24/48VDC, 2A/point, sink/source type, all points independent	8	RY18R2A	240VAC/24VDC, 2A/point, independent contact	8	1	
I/O combined	A1SX48Y18	Input: 24VDC, sink type	Input: 8	RX40C7	24VDC, positive/negative common shared type	16	1	-
		Output: 240VAC/24VDC, 2A/point, contact	Output: 8	RY10R2	240VAC/24VDC, 2A/point, contact	16	1	
	A1SX48Y58	Input: 24VDC, sink type	Input: 8	RX40C7	24VDC, positive/negative common shared type	16	1	
		Output: 12/24VDC, 0.5A/point, sink type	Output: 8	RY40NT5P	12/24VDC, 0.5A/point, sink type	16	1	

*: Input specifications: Sink type = Positive common, Source type = Negative common
*1: The output type changes from transistor output to contact output.

Reference: Terminal block specifications

Item	MELSEC-AnS series module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter (small type)
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.3mm	6mm	7.3mm

Terminal block wiring area

SYSMAC C series Large type → MELSEC iQ-R series

Modules that do not support the use of a conversion adapter

Input/Output	SYSMAC C series [Large type] module before replacement			MELSEC iQ-R series module after replacement				Note
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules	
Input	C500-IA222	200 to 240VAC	16	RX28	100 to 240VAC	8	2	-
	C500-IA223	200 to 240VAC	32	RX28	100 to 240VAC	8	4	
Output	C500-OC223	24VDC/250VAC, independent contact	16	RY18R2A	240VAC/24VDC, 2A/point, contact	8	2	-
	C500-OD215	24VDC, 50mA/point, independent contact	16	RY18R2A	240VAC/24VDC, 2A/point, contact	8	2	*2
	C500-OD212	12 to 24VDC, 0.3A/point, source type	32	RY41PT1P	12/24VDC, 0.1A/point, source type	32	1	-
				RY41PT2H	5/12/24VDC, 0.2A/point, source type	32	1	
				RY40PT5P	12/24VDC, 0.5A/point, source type	16	2	

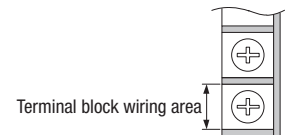*2: The output type changes from transistor output to contact output.

Modules that share each common terminal by 8 points

Input/Output	SYSMAC C series [Large type] module before replacement			MELSEC iQ-R series module after replacement				Note
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules	
Input	C500-ID213	12/24VDC, sink type, 8 points/common	16	RX40PC6H	24VDC, positive common, 8 points/common	16	1	-

*: Input specifications: Sink type = Positive common

Reference: Terminal block specifications

Item	SYSMAC C series [Large type] module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3.5	M3	M3
Terminal block wiring area	7.3mm	6mm	7.2mm

Terminal block wiring area

SYSMAC C series Small type (C200H, CS) → MELSEC iQ-R series

Modules that do not support the use of a conversion adapter

Input/Output	SYSMAC C series [Small type] module before replacement		No. of points	MELSEC iQ-R series module after replacement		No. of points	No. of required modules	Note
	Model	Specifications		Model	Specifications			
Input	C200H-IA121	100 to 120VAC	8	RX10	100 to 120VAC	16	1	-
	C200H-IA122	100 to 120VAC	16					
	C200H-IA122V							
	C200H-IA221	200 to 240VAC	8	RX28	100 to 240VAC	8	1	
	C200H-IA222	200 to 240VAC	16	RX28	100 to 240VAC	8	2	
	C200H-IA222V							
	C200H-ID001	No-voltage input (No-contact input), for NPN output	8	RX40C7	24VDC, positive/negative common shared type	16	1	*1
	C200H-ID002	No-voltage input (No-contact input), for PNP output						
	C200H-ID211	12 to 24VDC, positive/negative common shared type	8	RX40C7	24VDC, positive/negative common shared type	16	1	-
				RX70C4	5/12VDC, positive/negative common shared type	16	1	
	C200H-ID212	24VDC, positive/negative common shared type	16	RX40C7	24VDC, positive/negative common shared type	16	1	
	C200H-IM211	12 to 24VAC/DC	8	RX40C7	24VDC, positive/negative common shared type	16	1	*2
				RX70C4	5/12VDC, positive/negative common shared type	16	1	
	C200H-IM212	24VAC/DC	16	RX40C7	24VDC, positive/negative common shared type	16	1	
	CS1W-IA111	100 to 120VAC/DC	16	RX10	100 to 120VAC	16	1	*3
	CS1W-IA211	200 to 240VAC	16	RX28	100 to 240VAC	8	2	
	CS1W-ID211	24VDC, positive/negative common shared type	16	RX40C7	24VDC, positive/negative common shared type	16	1	-
Output	C200H-OA221	250VAC maximum, 1A	8	RY20S6	100 to 240VAC, 0.6A	16	1	-
	C200H-OA222	250VAC maximum, 0.5A	12					
	C200H-OA222V	250VAC maximum, 0.3A	12					
	C200H-OA223	250VAC maximum, 1.2A	8					
	C200H-OA224	250VAC maximum, 0.5A	12					
	C200H-OC221	250VAC/24VDC maximum, 2A	8	RY10R2	240VAC/24VDC, 2A	16	1	
	C200H-OC222	250VAC/24VDC maximum, 2A	12					
	C200H-OC222N							
	C200H-OC222V							
	C200H-OC225	250VAC/24VDC maximum, 2A	16					
	C200H-OC226							
	C200H-OC226N							
	C200H-OC223	250VAC/24VDC maximum, 2A, independent contact	5	RY18R2A	240VAC/24VDC, 2A, independent contact	8	1	
	C200H-OC224	250VAC/24VDC maximum, 2A, independent contact	8					
	C200H-OC224N							
	C200H-OC224V							
	C200H-OD411	12 to 48VDC, 1A, sink type	8	RY40NT5P	12 to 24VDC, 0.5A, sink type	16	1	*4
	C200H-OD211	24VDC, 0.3A, sink type	12					-
	C200H-OD212		16					
	C200H-OD213	24VDC, 2.1A, sink type	8					-
	C200H-OD214	24VDC, 0.8A, source type	8	RY40PT5P	12 to 24VDC, 0.5A, source type	16	1	-
	C200H-OD216	5 to 24VDC, 0.3A, source type	8					*5
	C200H-OD217	5 to 24VDC, 0.3A, source type	12					
	C200H-OD21A	24VDC, 1A, source type	16					-
	CS1W-OC201	250VAC/24VDC, 2A, 120VDC, 0.1A, independent contact	8	RY18R2	240VAC/24VDC, 2A, independent contact	8	1	*6
	CS1W-OC211	250VAC/24VDC, 2A, 120VDC, 0.1A	16	RY10R2	240VAC/24VDC, 2A	16	1	
	CS1W-OA201	250VAC, 1.2A	8	RY20S6	100 to 240VAC, 0.6A	16	1	-
	CS1W-OA211	250VAC, 0.5A	16					
	CS1W-OD211	12 to 24VDC, 0.5A, sink type	16	RY40NT5P	12 to 24VDC, 0.5A, sink type	16	1	
	CS1W-OD212	24VDC, 0.5A, source type	16	RY40PT5P	12 to 24VDC, 0.5A, source type	16	1	

*1: Additional power supply input is required at the wiring side.
*2: When a rated input voltage of 12VAC or 24VAC is used, the power supply voltage needs to be changed.
*3: When a rated input voltage of 100 to 120VDC is used, the module cannot be replaced.
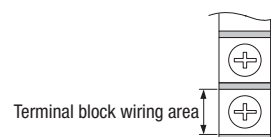*4: When a rated load voltage of 48VDC is used, the power supply voltage needs to be changed.
*5: When a rated load voltage of 5VDC is used, the power supply voltage needs to be changed.
*6: When a rated load voltage of 120VDC is used, the module cannot be replaced.

Reference: Terminal block specifications

Item	SYSMAC C series [Small type] module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.3mm	6mm	7.3mm

Terminal block wiring area

New satellite JW series Large type → MELSEC iQ-R series

Modules that do not support the use of a conversion adapter

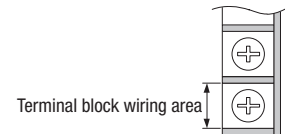| Input/Output	New satellite JW series [Large type] module before replacement			MELSEC iQ-R series module after replacement			
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules
Input	JW-13N	200 to 240VAC	16	RX28	100 to 240VAC	8	2
Output	JW-35S	12 to 24VDC, 1A, source type	32	RY40PT5P	12/24VDC, 0.5A, source type	16	2
				RY41PT1P	12/24VDC, 0.1A, source type	32	1

Modules that share each common terminal by 8 points

Input/Output	New satellite JW series [Large type] module before replacement			MELSEC iQ-R series module after replacement			
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules
Input	JW-12N	24VAC, 12/24VDC, positive/negative common shared type, 8 points/common	16	RX40PC6H	24VDC, positive common, 8 points/common	16	1
				RX40NC6H	24VDC, negative common, 8 points/common	16	1

Reference: Terminal block specifications
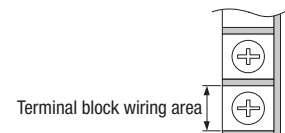
Item	New satellite JW series [Large type] module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3.5	M3	M3
Terminal block wiring area	7.3mm	6mm	7.2mm

Terminal block wiring area

New satellite JW series Small type → MELSEC iQ-R series

Modules that do not support the use of a conversion adapter

Input/Output	New satellite JW series [Small type] module before replacement			MELSEC iQ-R series module after replacement			
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules
Input	JW-203N	200/240VAC	8	RX28	100 to 240VAC	8	1
	JW-201N	100/120VAC	8	RX28	100 to 240VAC	8	1
	JW-202N	12/24VDC, positive/negative common shared type	8	RX40C7	24VDC, positive/negative common shared type	16	1
				RX70C4	5/12VDC, positive/negative common shared type	16	1
Output	JW-203S	100 to 240VAC, 1A	8	RY20S6	100 to 240VAC, 0.6A	16	1
	JW-204S JW-204SA	250VAC/30VDC, 2A, independent contact	8	RY18R2A	240VAC/24VDC, 2A, independent	8	1
	JW-215SA	5/12/24VDC, 0.5A, source type	16	RY40PT5P	12/24VDC, 0.5A, source type	16	1

Reference: Terminal block specifications

Item	New satellite JW series [Small type] module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter (small type)
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.2mm	6mm	7.3mm

Terminal block wiring area

MEMOCON-SC GL series `Large type` → MELSEC iQ-R series

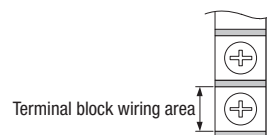### Modules that do not support the use of a conversion adapter

Input/Output	MEMOCON-SC GL series [Large type] module before replacement			MELSEC iQ-R series module after replacement			No. of required modules
	Model	Specifications	No. of points	Model	Specifications	No. of points	
Input	JAMSC-B2503A	200VAC	16	RX28	100 to 240VAC	8	2
	JAMSC-B2507A	200VAC	32	RX28	100 to 240VAC	8	4
Output	JAMSC-B2630	12/24VDC, 2A, source type	16	RY40PT5P	12/24VDC, 0.5A, source type	16	1
	JAMSC-B2632	12/24VDC, 0.3A, source type	32	RY41PT1P	12/24VDC, 0.1A, source type	32	1

Modules that share each common terminal by 8 points

Input/Output	MEMOCON-SC GL series [Large type] module before replacement			MELSEC iQ-R series module after replacement			No. of required modules
	Model	Specifications	No. of points	Model	Specifications	No. of points	
Input	JAMSC-B2601	12/24VDC, positive/negative common shared type, 8 points/common	16	RX40PC6H	24VDC, positive common, 8 points/common	16	1
				RX40NC6H	24VDC, negative common, 8 points/common	16	1

Reference: Terminal block specifications

Item	MEMOCON-SC GL series [Large type] module before replacement	MELSEC iQ-R series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3	M3	M3
Terminal block wiring area	7.3mm	6mm	7.2mm

Terminal block wiring area

Remarks

The universal conversion adapter (small type) cannot be used to replace the SYSMAC C series `Small type` (CQM1) or the MEMOCON GL series `Small type` with the MELSEC iQ-R series because the terminal block screw size of the universal conversion adapter (small type) is bigger than those of the series before and after replacement.

Reference: Terminal block specifications

Item	Before replacement		MELSEC iQ-R series module after replacement	Universal conversion adapter (small type)
	SYSMAC C series [Small type] (CQM1) module	MEMOCON GL series [Small type] module		
Terminal block screw size	M3	M3	M3	M3.5
Terminal block wiring area	6.4mm	7mm	6mm	7.3mm

Terminal block wiring area