

CJ1W-OC/OA/OD

A Wide Range of Basic Output Units for High Speed Output and Different Applications

- These Output Units receive the results of output instructions from the CPU Unit and perform ON/OFF control for external devices.
- High-speed Output models CJ1W-OD213 and CJ1W-OD234 can help to increase system throughput.



CJ1W-OD213



CJ1W-OD234

Features

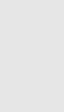
- High-speed output models are available, meeting versatile applications.
ON Response Time: 15μs, OFF Response Time: 80μs
 - Output Units are available with any of three output types: relay contact outputs, triac outputs, or transistor outputs.
 - For transistor outputs, select from sinking outputs or sourcing outputs.
 - Output Units with load short-circuit protection are also available. *1
 - Select the best interface for each application: Fujitsu connectors or MIL connectors. *2
 - A wide variety of Connector-Terminal Block Conversion Units are available to allow you to easily wire external output devices.
- *1. The following Units have load short-circuit protection: CJ1W-OC202, CJ1W-OD204, CJ1W-OD212, and CJ1W-OD232.
- *2. Available for models with 32 outputs or 64 outputs

Ordering Information

International Standards

- The standards are abbreviated as follows: U: UL, U1: UL (Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, and CE: EC Directives.
- Contact your OMRON representative for further details and applicable conditions for these standards.

Output Units

Unit type	Product name	Specifications					No. of words allocated	Current consumption (A)		Model	Standards
		Output type	I/O points	Maximum switching capacity	Commons	External connection		5 V	24 V		
CJ1 Basic I/O Units	Relay Contact Output Units 	—	8 outputs	250 VAC/24 VDC, 2 A	Independent contacts	Removable terminal block	1 words	0.09	0.048 max.	CJ1W-OC201	UC1, N, L, CE
		—	16 outputs	250 VAC/24 VDC, 2 A	16 points, 1 common	Removable terminal block	1 words	0.11	0.096 max.	CJ1W-OC211	
	Triac Output Unit 	—	8 outputs	250 VAC, 0.6 A	8 points, 1 common	Removable terminal block	1 words	0.22	—	CJ1W-OA201	
		Sinking	8 outputs	12 to 24 VDC, 2 A	4 points, 1 common	Removable terminal block	1 words	0.09	—	CJ1W-OD201	
	Transistor Output Units 	Sinking	8 outputs	12 to 24 VDC, 0.5 A	8 points, 1 common	Removable terminal block	1 words	0.10	—	CJ1W-OD203	
		Sinking	16 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.10	—	CJ1W-OD211	
	Transistor Output Units 	Sinking	16 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.15	—	CJ1W-OD213	N, L, CE
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Fujitsu connector	2 words	0.14	—	CJ1W-OD231	UC1, N, L, CE
	Transistor Output Units 	Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.14	—	CJ1W-OD233	
		Sinking	32 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.22	—	CJ1W-OD234	N, L, CE
	Transistor Output Units 	Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	Fujitsu connector	4 words	0.17	—	CJ1W-OD261	UC1, N, L, CE
		Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	—	CJ1W-OD263	
	Sourcing	Sourcing	8 outputs	24 VDC, 2 A Short-circuit protection	4 points, 1 common	Removable terminal block	1 words	0.11	—	CJ1W-OD202	
		Sourcing	8 outputs	24 VDC, 0.5 A Short-circuit protection	8 points, 1 common	Removable terminal block	1 words	0.10	—	CJ1W-OD204	
	Sourcing	Sourcing	16 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	Removable terminal block	1 words	0.10	—	CJ1W-OD212	
		Sourcing	32 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	MIL connector	2 words	0.15	—	CJ1W-OD232	
	Sourcing	Sourcing	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	—	CJ1W-OD262	

Accessories

Connectors are not included for models with connectors. Either use one of the applicable connector listed below or use an applicable Connector-Terminal Block Conversion Unit or I/O Relay Terminal. For details on wiring methods, refer to *External Interface*.

Applicable Connectors**Fujitsu Connectors for 32-input, 32-output, 64-input, 64-output, 32-input/32-output, and 16-input/16-output Units**

Name	Connection	Remarks			Applicable Units	Model	Standards
40-pin Connectors	Soldered	FCN-361J040-AU	Connector	Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE404	—	—
	Crimped	FCN-363J040	Housing		C500-CE405		
		FCN-363J-AU	Contactor		C500-CE403		
24-pin Connectors	Pressure welded	FCN-360C040-J2	Connector Cover		C500-CE241	—	—
	Soldered	FCN-361J024-AU	Connector	Fujitsu Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit	C500-CE242		
	Crimped	FCN-363J024	Socket		C500-CE243		
	Pressure welded	FCN-363J-AU	Contactor				
		FCN-360C024-J2	Connector Cover				
		FCN-367J040-AU/F					

MIL Connectors for 32-input, 32-output, 64-input, 64-output, 32-input/32-output, and 16-input/16-output Units

Name	Connection	Remarks	Applicable Units	Model	Standards
40-pin Connectors	Pressure welded	FRC5-AO40-3TOS	MIL Connectors: CJ1W-ID232/233 (32 inputs): 1 per Unit CJ1W-OD232/233/234 (32 outputs): 1 per Unit CJ1W-ID262 (64 inputs): 2 per Unit CJ1W-OD262/263 (64 outputs): 2 per Unit CJ1W-MD263/563 (32 inputs, 32 outputs): 2 per Unit	XG4M-4030-T	—
	Crimped	—		XG5N-401*	
20-pin Connectors	Pressure welded	FRC5-AO20-3TOS	MIL Connectors: CJ1W-MD232/233 (16 inputs, 16 outputs): 2 per Unit	XG4M-2030-T	—
	Crimped	—		XG5N-201*	

* Crimp Contacts are also required. Refer to page 31 for details.

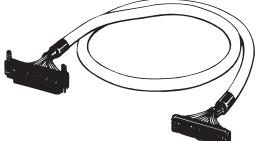
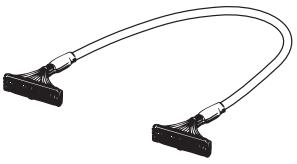
Applicable Connector-Terminal Block Conversion Units

Type	Series	Number of poles	Wiring method	Terminal type	Size			Mounting		Common terminals	Bleeder resistance	Indicators	I/O Units	Model *	Standards						
					Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws												
PLCs	XW2R	34	Phillips screw	M3	50	48.05	130.7	Yes	No	No	No	No	CJ1W-OD231 CJ1W-OD261	XW2R-J34GD-C3	—						
														CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-J34GD-C4						
			Slotted screw (rise up)	M3 (European type)	50	44.81	98.5							CJ1W-OD231 CJ1W-OD261	XW2R-E34GD-C3						
			Push-in spring	Clamp	50	44.81	98.5							CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-E34GD-C4						
														CJ1W-OD231 CJ1W-OD261	XW2R-P34GD-C3						
														CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-P34GD-C4						

Note: For the combination of Output Units with Connector-Terminal Block Conversion Units, refer to 2. Connecting Connector-Terminal Block Conversion Units.

* Representative models only. For details, refer to the XW2R series catalog (Cat. No. G077).

Connecting Cables for Connector-Terminal Block Conversion Units

Appearance	Connectors	Cable length [m]	Model
XW2Z-□□□PF	One 40-pin Fujitsu Connector to One 40-pin MIL Connector	0.5	XW2Z-050PF
		1	XW2Z-100PF
		1.5	XW2Z-150PF
		2	XW2Z-200PF
		3	XW2Z-300PF
		5	XW2Z-500PF
XW2Z-□□□PM	One 40-pin MIL Connector to One 40-pin MIL Connector	0.5	XW2Z-050PM
		1	XW2Z-100PM
		1.5	XW2Z-150PM
		2	XW2Z-200PM
		3	XW2Z-300PM
		5	XW2Z-500PM

Applicable I/O Relay Terminals

Type	Series	Specifications					Size (horizontal mounting)			Mounting		Standards										
		Classification		Polarity	Number of points	Rated ON current at contacts	Rated voltage	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track											
Push-In Plus terminal block	G70V 	Inputs	DC inputs	NPN	16 (SPSTNO × 16)	50 mA	24 VDC	143	90	56	Yes	Yes	G70V-SID16P *4									
				PNP									G70V-SID16P-1 *4									
				NPN									G70V-SID16P-C16 *5									
				PNP									G70V-SID16P-1-C16 *5									
		Outputs	Relay outputs	NPN	16 (SPDT × 16)	6 A/point, 10 A/common							G70V-SOC16P *4									
				PNP									G70V-SOC16P-1 *4									
				NPN									G70V-SOC16P-C4 *6									
				PNP									G70V-SOC16P-1-C4 *6									
Standard	G7TC 	Inputs	AC inputs	NPN	16 (SPSTNO × 16)	1A	100/(110) VAC 200/(220) VAC 12 VDC 24 VDC 100/110 VDC	182	85	68	Yes	No	G7TC-IA16 AC100/110									
													G7TC-IA16 AC200/220									
			DC inputs										G7TC-ID16 DC12									
			NPN										G7TC-ID16 DC24									
													G7TC-ID16 DC100/110									
		Outputs	Relay outputs	NPN	8 (SPSTNO × 8)	5 A	12 VDC 24 VDC	102	85	68	Yes	No	G7TC-OC08 DC12									
													G7TC-OC08 DC24									
				PNP	16 (SPSTNO × 16)	5 A	12 VDC 24 VDC	182					G7TC-OC16 DC12									
													G7TC-OC16 DC24									
				PNP	16 (SPSTNO × 16)	5 A	12 VDC 24 VDC						G7TC-OC16-1 DC12									
													G7TC-OC16-1 DC24									
													U, C									
High-capacity socket	G70A *1 (Socket only) 	Inputs	Relay inputs	NPN/PNP	16 (SPDT × 16 possible with G2R Relays)	100 mA	110 VDC max., 240 VAC max.*2	234	75	64	Yes	No	G70A-ZOC16-5	U, C, CE (VDE certified)								
			Relay outputs	NPN									G70A-ZOC16-3									
		Outputs	Relay outputs	PNP									G70A-ZOC16-4									
Space-saving	Vertical type G70D-V 	Outputs	Relay outputs	NPN	16 (SPSTNO × 16)	5 A or 3 A*3	24 VDC	135	46	81	Yes	Yes	G70D-VSOC16	U, C, CE (VDE certified)								
			MOSFET relay outputs										G70D-VFOM16									
	Flat type G70D 		Relay outputs	NPN	8 (SPSTNO × 8)	5 A		68	93	44	Yes	Yes	G70D-SOC08	-								
			Relay outputs	NPN	16 (SPSTNO × 16)	3 A		G70D-SOC16														
			PNP	16 (SPSTNO × 16)	3 A	G70D-SOC16-1																
			MOSFET relay outputs	NPN	16 (SPSTNO × 16)	0.3 A		156	51	39			G70D-FOM16									
			PNP	16 (SPSTNO × 16)	0.3 A	G70D-FOM16-1																
High-capacity, space-saving	G70R 	Outputs	Relay outputs	NPN	8 (SPSTNO × 8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08 *7	-								

*1. G70A is a I/O terminal socket product. Relay is not provided with the socket. Be sure to order a relay, timer separately.

*2. Each relay to be mounted must incorporate a coil that has proper specifications within the maximum rated voltage range.

*3. Eight or fewer points ON: 5 A, Nine or more points ON: 3 A.

*4. Internal common at terminal block: No internal connections

*5. Internal common at terminal block: Internal IO common 16 points internally connected

*6. Internal common at terminal block: Every 4 points internally connected at terminal block middle row.

*7. Product no longer available to order.

Note: 1. For the combination of Input Units with I/O Relay Terminal and Connecting Cables, refer to 3. Connecting I/O Relay Terminals.

2. Please refer to each Datasheet about details.

3. When the G7TC is used with an AC rated voltage, three rated currents can be used. If a coil voltage of 110 or 220 VAC is used, 50 Hz cannot be used.

Cables for I/O Relay Terminals

Type	Name	I/O Classification	Appearance	Cable length L (mm)		Models
Fujitsu connectors (24 pins)	Cables with Connectors (1:1) XW2Z-R□C	16 I/O points		1,000		XW2Z-R100C
				1,500		XW2Z-R150C
				2,000		XW2Z-R200C
				3,000		XW2Z-R300C
				5,000		XW2Z-R500C
Fujitsu connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RI□C-C-□ XW2Z-RO□C-C-□	32 input points		(A) 1,000	(B) 750	XW2Z-RI100C-75
				(A) 1,500	(B) 1,250	XW2Z-RI150C-125
				(A) 2,000	(B) 1,750	XW2Z-RI200C-175
				(A) 3,000	(B) 2,750	XW2Z-RI300C-275
				(A) 5,000	(B) 4,750	XW2Z-RI500C-475
		32 output points		(A) 1,000	(B) 750	XW2Z-RO100C-75
				(A) 1,500	(B) 1,250	XW2Z-RO150C-125
				(A) 2,000	(B) 1,750	XW2Z-RO200C-175
				(A) 3,000	(B) 2,750	XW2Z-RO300C-275
				(A) 5,000	(B) 4,750	XW2Z-RO500C-475
MIL connectors (20 pins)	Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C	16 I/O points		250		XW2Z-RI25C
				500		XW2Z-RI50C
				250		XW2Z-RO25C
				500		XW2Z-RO50C
MIL connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RO□-□-D1, XW2Z-RI□-□-D1	32 I/O points		(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-RO75-50-D1
				(A) 1,000	(B) 750	XW2Z-RO100-75-D1
				(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1
				(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
				(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
				(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
				(A) 500	(B) 250	XW2Z-RI50-25-D1
				(A) 750	(B) 500	XW2Z-RI75-50-D1
				(A) 1,000	(B) 750	XW2Z-RI100-75-D1
				(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
				(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
				(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
				(A) 5,000	(B) 4,750	XW2Z-RI500-475-D1

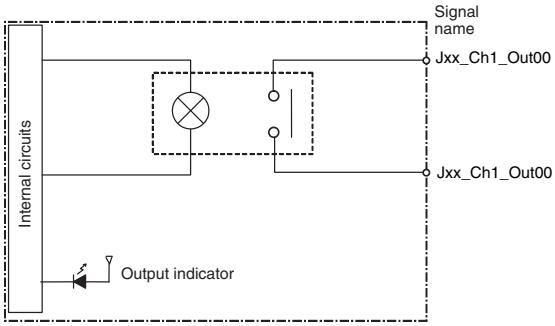
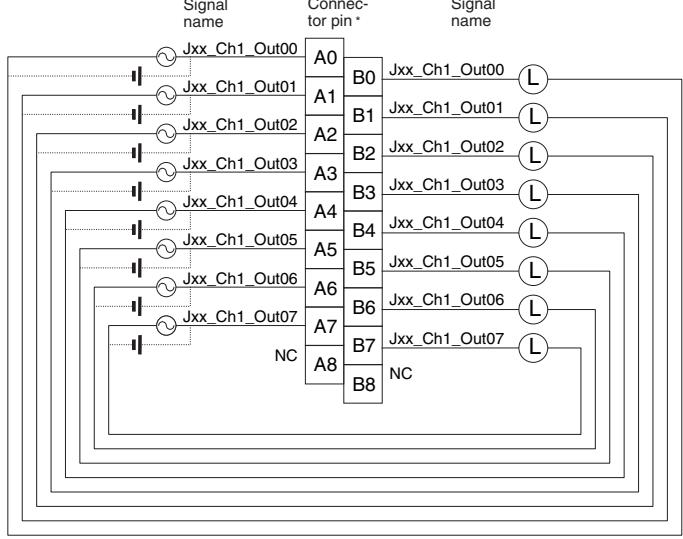
Note: Refer to the Datasheet for the XW2Z-R Cables for I/O Relay Terminals (Cat. No. G126).

Mountable Racks

Model	NJ system		CJ system (CJ1, CJ2)		CP1H system	NSJ system	
	CPU Rack	Expansion Rack	CPU Rack	Expansion Backplane	CP1H PLC	NSJ Controller	Expansion Backplane
CJ1W-OC201							
CJ1W-OC211							
CJ1W-OA201							
CJ1W-OD201							
CJ1W-OD203							
CJ1W-OD211							
CJ1W-OD213							
CJ1W-OD231							
CJ1W-OD233							
CJ1W-OD234							
CJ1W-OD261							
CJ1W-OD263							
CJ1W-OD202							
CJ1W-OD204							
CJ1W-OD212							
CJ1W-OD232							
CJ1W-OD262							
	10 Units	10 Units (Per Expansion Rack)	10 Units	10 Units (Per Expansion Backplane)	Not Supported	Not Supported	10 Units (Per Expansion Backplane)

Specifications

CJ1W-OC201 Contact Output Unit (Independent Relays, 8 Points)

Name	8-point Contact Output Unit with Terminal Block (Independent Relays)																																																									
Model	CJ1W-OC201																																																									
Max. Switching Capacity	2 A 250 VAC ($\cos\phi = 1$), 2 A 250 VAC ($\cos\phi = 0.4$), 2 A 24 VDC (16 A/Unit)																																																									
Min. Switching Capacity	1 mA 5 VDC																																																									
Relays	NY-24W-K-IE (Fujitsu Takamizawa Components, Ltd.), Cannot be replaced.																																																									
Service Life of Relay	Electrical: 150,000 operations (24 VDC, resistive load)/100,000 operations (240 VAC, $\cos\phi = 0.4$, inductive load) Mechanical: 20,000,000 operations Service life will vary depending on the connected load.																																																									
ON Response Time	15 ms max.																																																									
OFF Response Time	15 ms max.																																																									
Number of Circuits	8 independent contacts																																																									
Insulation Resistance	20 MΩ between external terminals and the GR terminal (500 VDC)																																																									
Dielectric Strength	2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.																																																									
Internal Current Consumption	90 mA 5 VDC max. 48 mA 24 VDC max. (6 mA × No. of ON points)																																																									
Weight	140 g max.																																																									
Circuit Configuration	 <p>The diagram illustrates the internal circuit configuration. It shows two parallel branches. The top branch contains a normally open contact (indicated by a circle with a dot) and a normally closed contact (indicated by a circle with a cross). The bottom branch contains a normally open contact and a normally closed contact. Both branches are connected in parallel. The outputs from both branches are labeled Jxx_Ch1_Out00. An output indicator is shown at the bottom left.</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. 																																																									
External connection and terminal-device variable diagram	 <p>The diagram shows the external connection and terminal-device variable mapping. The pins are grouped into two columns: A0-A8 and B0-B8. The connections are as follows:</p> <table border="1"> <thead> <tr> <th>Signal name</th> <th>Connector pin *</th> <th>Signal name</th> </tr> </thead> <tbody> <tr> <td>Jxx_Ch1_Out00</td> <td>A0</td> <td>Jxx_Ch1_Out00</td> </tr> <tr> <td>Jxx_Ch1_Out01</td> <td>B0</td> <td>Jxx_Ch1_Out01</td> </tr> <tr> <td>Jxx_Ch1_Out02</td> <td>A1</td> <td>Jxx_Ch1_Out02</td> </tr> <tr> <td>Jxx_Ch1_Out03</td> <td>B1</td> <td>Jxx_Ch1_Out03</td> </tr> <tr> <td>Jxx_Ch1_Out04</td> <td>A2</td> <td>Jxx_Ch1_Out04</td> </tr> <tr> <td>Jxx_Ch1_Out05</td> <td>B2</td> <td>Jxx_Ch1_Out05</td> </tr> <tr> <td>Jxx_Ch1_Out06</td> <td>A3</td> <td>Jxx_Ch1_Out06</td> </tr> <tr> <td>Jxx_Ch1_Out07</td> <td>B3</td> <td>Jxx_Ch1_Out07</td> </tr> <tr> <td></td> <td>A4</td> <td></td> </tr> <tr> <td></td> <td>B4</td> <td></td> </tr> <tr> <td></td> <td>A5</td> <td></td> </tr> <tr> <td></td> <td>B5</td> <td></td> </tr> <tr> <td></td> <td>A6</td> <td></td> </tr> <tr> <td></td> <td>B6</td> <td></td> </tr> <tr> <td></td> <td>A7</td> <td></td> </tr> <tr> <td></td> <td>B7</td> <td></td> </tr> <tr> <td></td> <td>A8</td> <td>NC</td> </tr> <tr> <td></td> <td>B8</td> <td>NC</td> </tr> </tbody> </table> <p>Below the diagram, the ratings are listed as: 2 A 250 VAC, 2 A 24 VDC max.</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. The input power supply polarity can be connected in either direction. 	Signal name	Connector pin *	Signal name	Jxx_Ch1_Out00	A0	Jxx_Ch1_Out00	Jxx_Ch1_Out01	B0	Jxx_Ch1_Out01	Jxx_Ch1_Out02	A1	Jxx_Ch1_Out02	Jxx_Ch1_Out03	B1	Jxx_Ch1_Out03	Jxx_Ch1_Out04	A2	Jxx_Ch1_Out04	Jxx_Ch1_Out05	B2	Jxx_Ch1_Out05	Jxx_Ch1_Out06	A3	Jxx_Ch1_Out06	Jxx_Ch1_Out07	B3	Jxx_Ch1_Out07		A4			B4			A5			B5			A6			B6			A7			B7			A8	NC		B8	NC
Signal name	Connector pin *	Signal name																																																								
Jxx_Ch1_Out00	A0	Jxx_Ch1_Out00																																																								
Jxx_Ch1_Out01	B0	Jxx_Ch1_Out01																																																								
Jxx_Ch1_Out02	A1	Jxx_Ch1_Out02																																																								
Jxx_Ch1_Out03	B1	Jxx_Ch1_Out03																																																								
Jxx_Ch1_Out04	A2	Jxx_Ch1_Out04																																																								
Jxx_Ch1_Out05	B2	Jxx_Ch1_Out05																																																								
Jxx_Ch1_Out06	A3	Jxx_Ch1_Out06																																																								
Jxx_Ch1_Out07	B3	Jxx_Ch1_Out07																																																								
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	B7																																																									
	A8	NC																																																								
	B8	NC																																																								

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OC211 Contact Output Unit (16 Points)

Name	16-point Contact Output Unit with Terminal Block
Model	CJ1W-OC211
Max. Switching Capacity	2 A 250 VAC ($\cos\phi = 1$), 2 A 250 VAC ($\cos\phi = 0.4$), 2 A 24 VDC (8 A/Unit)
Min. Switching Capacity	1 mA 5 VDC
Relays	NY-24W-K-IE (Fujitsu Takamizawa Components, Ltd.), Cannot be replaced.
Service Life of Relay	Electrical: 150,000 operations (24 VDC, resistive load)/ 100,000 operations (250 VAC, $\cos\phi = 0.4$, inductive load) Mechanical: 20,000,000 operations Service life will vary depending on the connected load.
ON Response Time	15 ms max.
OFF Response Time	15 ms max.
Number of Circuits	16 points/common, 1 circuit
Insulation Resistance	20 MΩ between external terminals and the GR terminal (500 VDC)
Dielectric Strength	2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Internal Current Consumption	110 mA 5 VDC max. 96 mA 24 VDC max. (6 mA × No. of ON points)
Weight	170 g max.

| Circuit Configuration | The diagram illustrates the internal circuit configuration of a single output channel. It shows a relay coil (indicated by a circle with an 'X') connected in series with the signal line. The normally open contact of the relay is connected in parallel with the signal line. The normally closed contact is connected in series with the common terminal (COM). The signal line is labeled with its name (e.g., Jxx_Ch1_Out00 to Jxx_Ch1_Out15) and connects to the relay coil. An output indicator is also shown connected to the signal line. |

- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

| External connection and terminal-device variable diagram | The diagram shows the external connection of the CJ1W-OC211 unit. On the left, a terminal block is shown with 16 output terminals labeled Jxx_Ch1_Out00 through Jxx_Ch1_Out15. These terminals are connected to a central connector. The connector has two rows of pins: Row A (A0 to A8) and Row B (B0 to B8). The bottom row (B) is labeled "COM". Below the terminal block, it is specified that the unit can handle 2 A 250 VAC or 2 A 24 VDC. On the right, the connector pins are connected to a power source (indicated by a circle with a wavy line) and ground (indicated by a circle with a cross). |

- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OA201 Triac Output Unit (8 Points)

Name	8-point Triac Output Unit with Terminal Block
Model	CJ1W-OA201
Max. Switching Capacity	0.6 A 250 VAC, 50/60 Hz (2.4 A/Unit)
Max. Inrush Current	15 A (pulse width: 10 ms max.)
Min. Switching Capacity	50 mA 75 VAC
Leakage Current	1.5 mA (200 VAC) max.
Residual Voltage	1.6 VAC max.
ON Response Time	1 ms max.
OFF Response Time	1/2 of load frequency + 1 ms or less.
Number of Circuits	8 (8 points/common, 1 circuit)
Surge Protector	C.R Absorber + Surge Absorber
Fuses	5 A (1/common, 1 used) The fuse cannot be replaced by the user.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (500 VDC)
Dielectric Strength	2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Internal Current Consumption	220 mA max.
Weight	150 g max.

Circuit Configuration	<p>The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p>
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External connection and terminal-device variable diagram	<p>The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p>
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* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD201 Transistor Output Unit (8 Points)

Name	8-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD201
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	2.0 A/point, 8.0 A/Unit
Maximum Inrush Current	10 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	8 (4 points/common, 2 circuits)
Internal Current Consumption	90 mA max.
Fuse	6.3 A (1/common, 2 used) The fuse cannot be replaced by the user.
External Power Supply	10.2 to 26.4 VDC, 10 mA min.
Weight	110 g max.

Circuit Configuration	
	<ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram	
	<ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD203 Transistor Output Unit (8 Points)

Name	8-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD203
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 4.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.1 ms max.
OFF Response Time	0.8 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	8 (8 points/common, 1 circuit)
Internal Current Consumption	100 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 20 mA min.
Weight	110 g max.

Circuit Configuration	<p>The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p>
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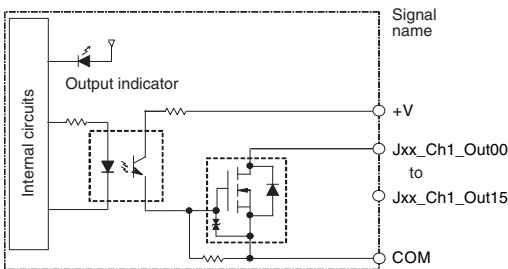
External connection and terminal-device variable diagram	<p>When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p>
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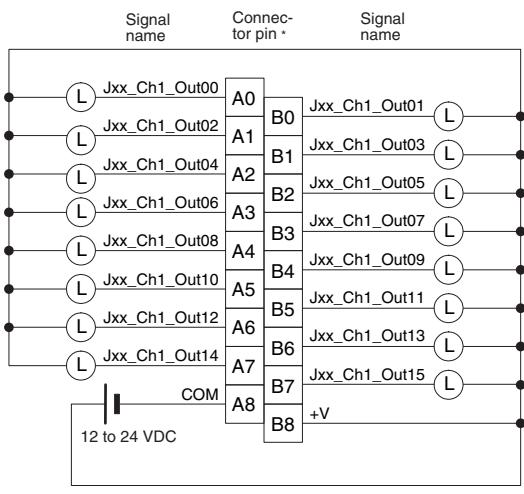
* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD211 Transistor Output Unit (16 Points)

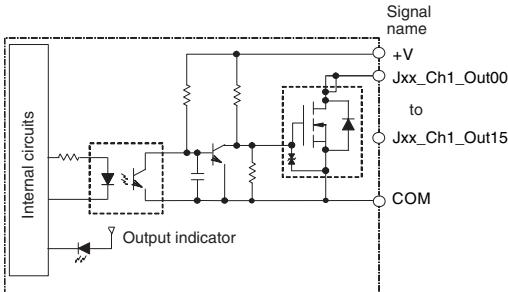
Name	16-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD211
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 5.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.1 ms max.
OFF Response Time	0.8 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	16 (16 points/common, 1 circuit)
Internal Current Consumption	5 VDC 100 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 20 mA min.
Weight	110 g max.

Circuit Configuration	 <p>The diagram shows the internal circuitry of one output channel. It includes an 'Output indicator' (a small switch-like component) connected to a signal line. This line connects to a series of logic gates (inverter and AND gate) which control a power transistor. The collector of the power transistor is connected to a terminal labeled 'Jxx_Ch1_Out00 to Jxx_Ch1_Out15'. The emitter is connected to a common ground terminal labeled 'COM'. The base of the power transistor is connected to a signal line labeled 'Signal name'.</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
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External connection and terminal-device variable diagram	 <p>This diagram illustrates the external connections for the 16 outputs of the unit. The outputs are grouped into two sets of 8, labeled A0 to A8 and B0 to B8. Each output is represented by a terminal block with two pins: one for the signal (labeled L) and one for common ground (labeled COM). The signal pins are connected to a vertical bus bar. The bus bar is connected to a 12 to 24 VDC power source at the bottom and to the common ground terminal at the top. The common ground terminal is also connected to the power source.</p> <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
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* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD213 Transistor Output Unit (16 Points)

Name	16-point Transistor Output Unit with Terminal Block (Sinking Outputs)																																																									
Model	CJ1W-OD213																																																									
Rated Voltage	24 VDC																																																									
Operating Load Voltage Range	20.4 to 26.4 VDC																																																									
Maximum Load Current	0.5 A/point, 5.0 A/Unit																																																									
Maximum Inrush Current	4.0 A/point, 10 ms max.																																																									
Leakage Current	0.1 mA max.																																																									
Residual Voltage	1.5 V max.																																																									
ON Response Time	15 µs max.																																																									
OFF Response Time	80 µs max.																																																									
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)																																																									
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.																																																									
Number of Circuits	16 (16 points/common, 1 circuit)																																																									
Internal Current Consumption	5 VDC 150 mA max.																																																									
Fuse	None																																																									
External Power Supply	20.4 to 26.4 VDC, 55 mA min.																																																									
Weight	110 g max.																																																									
Circuit Configuration	 <p>The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p>																																																									
External connection and terminal-device variable diagram	<table border="1"> <thead> <tr> <th>Signal name</th> <th>Connector pin *</th> <th>Signal name</th> </tr> </thead> <tbody> <tr> <td>Jxx_Ch1_Out00</td> <td>A0</td> <td>Jxx_Ch1_Out01</td> </tr> <tr> <td>Jxx_Ch1_Out02</td> <td>B0</td> <td>Jxx_Ch1_Out03</td> </tr> <tr> <td>Jxx_Ch1_Out04</td> <td>A1</td> <td>Jxx_Ch1_Out05</td> </tr> <tr> <td>Jxx_Ch1_Out06</td> <td>B1</td> <td>Jxx_Ch1_Out07</td> </tr> <tr> <td>Jxx_Ch1_Out08</td> <td>A2</td> <td>Jxx_Ch1_Out09</td> </tr> <tr> <td>Jxx_Ch1_Out10</td> <td>B2</td> <td>Jxx_Ch1_Out11</td> </tr> <tr> <td>Jxx_Ch1_Out12</td> <td>A3</td> <td>Jxx_Ch1_Out13</td> </tr> <tr> <td>Jxx_Ch1_Out14</td> <td>B3</td> <td>Jxx_Ch1_Out15</td> </tr> <tr> <td>COM</td> <td>A4</td> <td>+V</td> </tr> <tr> <td>24 VDC</td> <td>B4</td> <td></td> </tr> <tr> <td></td> <td>A5</td> <td></td> </tr> <tr> <td></td> <td>B5</td> <td></td> </tr> <tr> <td></td> <td>A6</td> <td></td> </tr> <tr> <td></td> <td>B6</td> <td></td> </tr> <tr> <td></td> <td>A7</td> <td></td> </tr> <tr> <td></td> <td>B7</td> <td></td> </tr> <tr> <td></td> <td>A8</td> <td></td> </tr> <tr> <td></td> <td>B8</td> <td></td> </tr> </tbody> </table> <p>* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.</p> <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. 	Signal name	Connector pin *	Signal name	Jxx_Ch1_Out00	A0	Jxx_Ch1_Out01	Jxx_Ch1_Out02	B0	Jxx_Ch1_Out03	Jxx_Ch1_Out04	A1	Jxx_Ch1_Out05	Jxx_Ch1_Out06	B1	Jxx_Ch1_Out07	Jxx_Ch1_Out08	A2	Jxx_Ch1_Out09	Jxx_Ch1_Out10	B2	Jxx_Ch1_Out11	Jxx_Ch1_Out12	A3	Jxx_Ch1_Out13	Jxx_Ch1_Out14	B3	Jxx_Ch1_Out15	COM	A4	+V	24 VDC	B4			A5			B5			A6			B6			A7			B7			A8			B8	
Signal name	Connector pin *	Signal name																																																								
Jxx_Ch1_Out00	A0	Jxx_Ch1_Out01																																																								
Jxx_Ch1_Out02	B0	Jxx_Ch1_Out03																																																								
Jxx_Ch1_Out04	A1	Jxx_Ch1_Out05																																																								
Jxx_Ch1_Out06	B1	Jxx_Ch1_Out07																																																								
Jxx_Ch1_Out08	A2	Jxx_Ch1_Out09																																																								
Jxx_Ch1_Out10	B2	Jxx_Ch1_Out11																																																								
Jxx_Ch1_Out12	A3	Jxx_Ch1_Out13																																																								
Jxx_Ch1_Out14	B3	Jxx_Ch1_Out15																																																								
COM	A4	+V																																																								
24 VDC	B4																																																									
	A5																																																									
	B5																																																									
	A6																																																									
	B6																																																									
	A7																																																									
	B7																																																									
	A8																																																									
	B8																																																									

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD231 Transistor Output Unit (32 Points)

Name	32-point Transistor Output Unit with Fujitsu Connector (Sinking Outputs)
Model	CJ1W-OD231
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2.0 A/common, 4.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.1 ms max.
OFF Response Time	0.8 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	32 (16 points/common, 2 circuits)
Internal Current Consumption	5 VDC 140 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 30 mA min.
Weight	70 g max.
Accessories	None

Circuit Configuration	<p>The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p>

External connection and terminal-device variable diagram	<p>Allocated CIO word Signal name Connector pin Signal name Allocated CIO word</p> <p>12 to 24 VDC Wd m</p> <p>Wd m</p> <p>12 to 24 VDC Wd m+1</p> <p>Wd m+1</p>

• When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
 • Be sure to wire both terminals A9 and A19 (COM0).
 • Be sure to wire both terminals B9 and B19 (COM1).
 • Be sure to wire both terminals A10 and A20 (+V).
 • Be sure to wire both terminals B10 and B20 (+V).
 • The signal names of the terminals are the device variable names.
 The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD233 Transistor Output Unit (32 Points)

Name	32-point Transistor Output Unit with MIL Connector (Sinking Outputs)
Model	CJ1W-OD233
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2 A/common, 4 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.1 ms max.
OFF Response Time	0.8 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	32 (16 points/common, 2 circuits)
Internal Current Consumption	140 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 30 mA min.
Weight	70 g max.

Circuit Configuration	

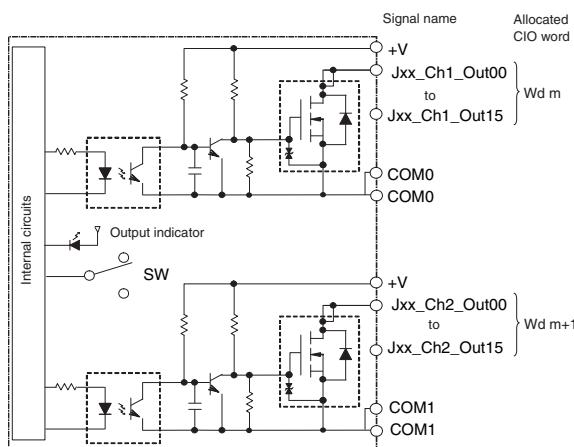
• The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram		Allocated CIO word	Signal name	Connector pin	Signal name	Allocated CIO word
		Wd m+1	Wd m			
		12 to 24 VDC	+V	1 2	+V	
			COM1	3 4	COM1	
			Jxx_Ch2_Out15	5 6	Jxx_Ch2_Out07 (L)	
			Jxx_Ch2_Out14	7 8	Jxx_Ch2_Out06 (L)	
			Jxx_Ch2_Out13	9 10	Jxx_Ch2_Out05 (L)	
			Jxx_Ch2_Out12	11 12	Jxx_Ch2_Out04 (L)	
			Jxx_Ch2_Out11	13 14	Jxx_Ch2_Out03 (L)	
			Jxx_Ch2_Out10	15 16	Jxx_Ch2_Out02 (L)	
			Jxx_Ch2_Out09	17 18	Jxx_Ch2_Out01 (L)	
			Jxx_Ch2_Out08	19 20	Jxx_Ch2_Out00 (L)	
				21 22	+V	
			COM0	23 24	COM0	
			Jxx_Ch1_Out15	25 26	Jxx_Ch1_Out07 (L)	
			Jxx_Ch1_Out14	27 28	Jxx_Ch1_Out06 (L)	
			Jxx_Ch1_Out13	29 30	Jxx_Ch1_Out05 (L)	
			Jxx_Ch1_Out12	31 32	Jxx_Ch1_Out04 (L)	
			Jxx_Ch1_Out11	33 34	Jxx_Ch1_Out03 (L)	
			Jxx_Ch1_Out10	35 36	Jxx_Ch1_Out02 (L)	
			Jxx_Ch1_Out09	37 38	Jxx_Ch1_Out01 (L)	
			Jxx_Ch1_Out08	39 40	Jxx_Ch1_Out00 (L)	

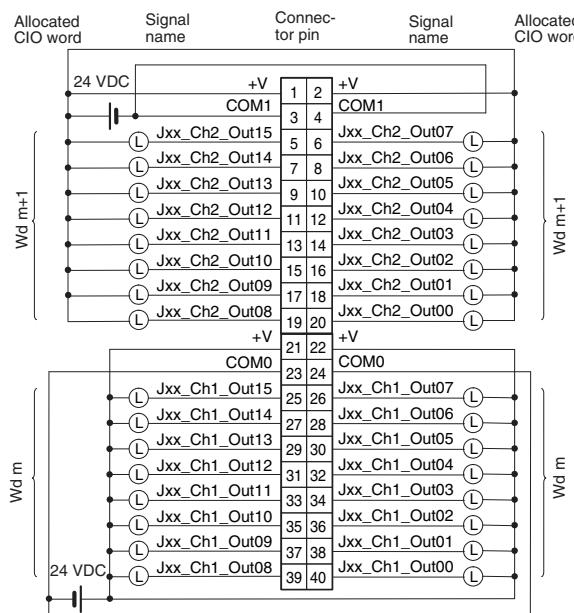
• When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
 • Be sure to wire both terminals 23 and 24 (COM0).
 • Be sure to wire both terminals 3 and 4 (COM1).
 • Be sure to wire both terminals 21 and 22 (+V).
 • Be sure to wire both terminals 1 and 2 (+V).
 • The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD234 Transistor Output Unit (32 Points)

Name	32-point Transistor Output Unit with MIL Connector (Sinking Outputs)
Model	CJ1W-OD234
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2 A/common, 4 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	15 μ s max.
OFF Response Time	80 μ s max.
Insulation Resistance	20 M Ω between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	32 (16 points/common, 2 circuits)
Internal Current Consumption	220 mA max.
Fuse	None
External Power Supply	20.4 to 26.4 VDC, 110 mA min.
Weight	70 g max.

Circuit Configuration

- The signal names of the terminals are the device variable names.
- The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram

- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM0).
- Be sure to wire both terminals 3 and 4 (COM1).
- Be sure to wire both terminals 21 and 22 (+V).
- Be sure to wire both terminals 1 and 2 (+V).
- The signal names of the terminals are the device variable names.
- The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD261 Transistor Output Unit (64 Points)

Name	64-point Transistor Output Unit with Fujitsu Connectors (Sinking Outputs)
Model	CJ1W-OD261
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit
Maximum Inrush Current	3.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	64 (16 points/common, 4 circuits)
Internal Current Consumption	5 VDC, 170 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 50 mA min.
Weight	110 g max.
Accessories	None
Circuit Configuration	<p>Internal circuits</p> <p>The diagram illustrates the internal circuitry and connector mapping for the CJ1W-OD261. It shows four groups of 16 outputs each, labeled Jxx_Ch1_Out00 to Jxx_Ch4_Out15. Each group has four common terminals (COM0, COM1, COM2, COM3) and four output terminals (Out00 to Out15). The outputs are connected to a connector row (A or B) via switches (SW). The connector row is then connected to a larger connector (CN1 or CN2).</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram	CN1					CN2				
	Allocated CIO word	Signal name	Connector pin	Signal name	Allocated CIO word	Allocated CIO word	Signal name	Connector pin	Signal name	Allocated CIO word

CN1:

CN2:

Wiring Notes:

- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals A9 and A19 (COM0) of CN1.
- Be sure to wire both terminals B9 and B19 (COM1) of CN1.
- Be sure to wire both terminals A10 and A20 (+V) of CN1.
- Be sure to wire both terminals B10 and B20 (+V) of CN1.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

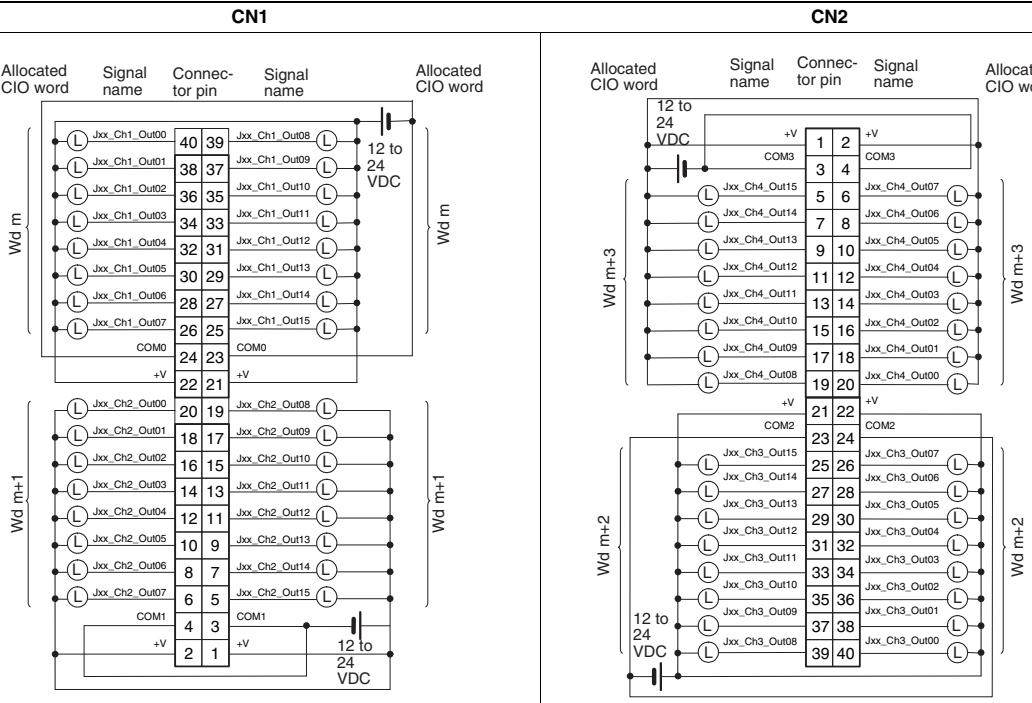
Wiring Notes:

- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals A9 and A19 (COM2) of CN2.
- Be sure to wire both terminals B9 and B19 (COM3) of CN2.
- Be sure to wire both terminals A10 and A20 (+V) of CN2.
- Be sure to wire both terminals B10 and B20 (+V) of CN2.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD263 Transistor Output Unit (64 Points)

Name	64-point Transistor Output Unit with MIL Connectors (Sinking Outputs)										
Model	CJ1W-OD263										
Rated Voltage	12 to 24 VDC										
Operating Load Voltage Range	10.2 to 26.4 VDC										
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit										
Maximum Inrush Current	3.0 A/point, 10 ms max.										
Leakage Current	0.1 mA max.										
Residual Voltage	1.5 V max.										
ON Response Time	0.5 ms max.										
OFF Response Time	1.0 ms max.										
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)										
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.										
Number of Circuits	64 (16 points/common, 4 circuits)										
Internal Current Consumption	170 mA max.										
Fuse	None										
External Power Supply	10.2 to 26.4 VDC, 50 mA min.										
Weight	110 g max.										
Circuit Configuration	<p>Diagram illustrating the internal circuit configuration and signal allocation for the CJ1W-OD263 Transistor Output Unit. The unit contains four groups of 16 channels each, labeled CN1, CN2, CN3, and CN4. Each group has four common terminals (COM0, COM1, COM2, COM3) and 16 output terminals (Out00 to Out15). The signals are allocated to CIO words as follows:</p> <table border="1"> <thead> <tr> <th>Allocated CIO word</th> <th>Signal name</th> </tr> </thead> <tbody> <tr> <td>Wd m</td> <td>Jxx_Ch1_Out00 to Jxx_Ch1_Out15</td> </tr> <tr> <td>Wd m+1</td> <td>Jxx_Ch2_Out00 to Jxx_Ch2_Out15</td> </tr> <tr> <td>Wd m+2</td> <td>Jxx_Ch3_Out00 to Jxx_Ch3_Out15</td> </tr> <tr> <td>Wd m+3</td> <td>Jxx_Ch4_Out00 to Jxx_Ch4_Out15</td> </tr> </tbody> </table> <p>The diagram shows the internal logic for each channel, including transistors, diodes, and resistors. A switch (SW) is also shown, likely for testing or configuration purposes.</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. 	Allocated CIO word	Signal name	Wd m	Jxx_Ch1_Out00 to Jxx_Ch1_Out15	Wd m+1	Jxx_Ch2_Out00 to Jxx_Ch2_Out15	Wd m+2	Jxx_Ch3_Out00 to Jxx_Ch3_Out15	Wd m+3	Jxx_Ch4_Out00 to Jxx_Ch4_Out15
Allocated CIO word	Signal name										
Wd m	Jxx_Ch1_Out00 to Jxx_Ch1_Out15										
Wd m+1	Jxx_Ch2_Out00 to Jxx_Ch2_Out15										
Wd m+2	Jxx_Ch3_Out00 to Jxx_Ch3_Out15										
Wd m+3	Jxx_Ch4_Out00 to Jxx_Ch4_Out15										

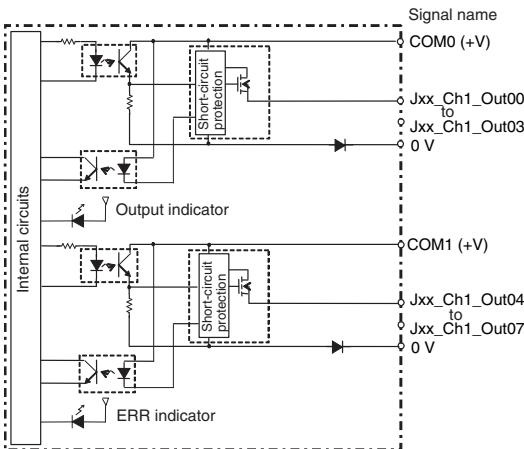
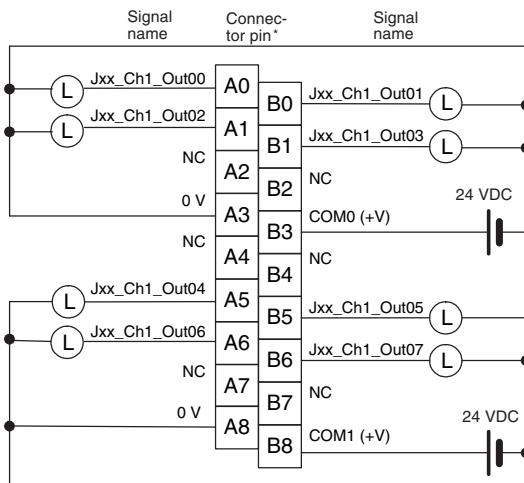
External connection and terminal-device variable diagram



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
 - Be sure to wire both terminals 23 and 24 (COM0) of CN1.
 - Be sure to wire both terminals 3 and 4 (COM1) of CN1.
 - Be sure to wire both terminals 21 and 22 (+V) of CN1.
 - Be sure to wire both terminals 1 and 2 (+V) of CN1.
 - The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
 - Be sure to wire both terminals 23 and 24 (COM2) of CN2.
 - Be sure to wire both terminals 3 and 4 (COM3) of CN2.
 - Be sure to wire both terminals 21 and 22 (+V) of CN2.
 - Be sure to wire both terminals 1 and 2 (+V) of CN2.
 - The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

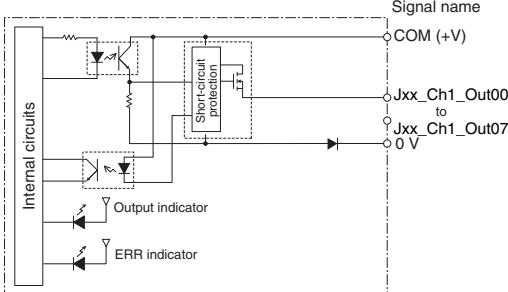
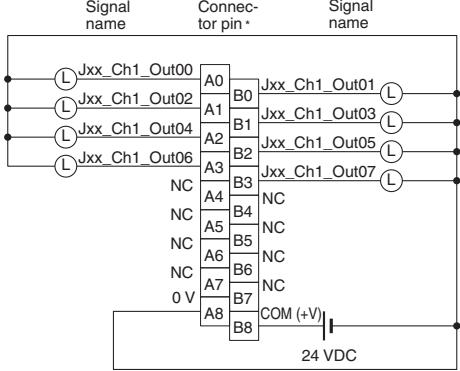
CJ1W-OD202 Transistor Output Unit (8 Points)

Name	8-point Transistor Output Unit with Terminal Block (Sourcing Outputs)
Model	CJ1W-OD202
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	2 A/point, 8 A/Unit
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Load Short-circuit Protection	Detection current: 6 A min. Automatic restart after error clearance.
Line Disconnection Detection	Detection current: 200 mA
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	8 (4 points/common, 2 circuits)
Internal Current Consumption	110 mA max.
Fuse	None
External Power Supply	20.4 to 26.4 VDC, 50 mA min.
Weight	120 g max.
Circuit Configuration	 <ul style="list-style-type: none"> When overcurrent or line disconnection is detected, the ERR indicator will light, and the corresponding bit (two points per bit) in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
External connection and terminal-device variable diagram	 <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD204 Transistor Output Unit (8 Points)

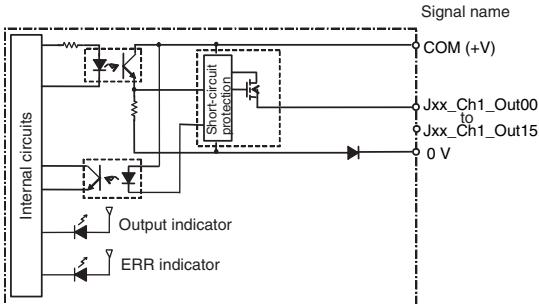
Name	8-point Transistor Output Unit with Terminal Block (Sourcing Outputs)
Model	CJ1W-OD204
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 4.0 A/Unit
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	8 (8 points/common, 1 circuit)
Internal Current Consumption	5 VDC, 100 mA max.
Fuse	None
External Power Supply	20.4 to 26.4 VDC, 40 mA min.
Weight	120 g max.
Circuit Configuration	 <ul style="list-style-type: none"> When overcurrent is detected, the ERR indicator will light, and the corresponding bit in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
External connection and terminal-device variable diagram	 <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD212 Transistor Output Unit (16 Points)

Name	16-point Transistor Output Unit with Terminal Block (Sourcing Outputs)
Model	CJ1W-OD212
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 5.0 A/Unit
Maximum Inrush Current	0.1 mA max.
Leakage Current	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	16 (16 points/common, 1 circuit)
Internal Current Consumption	5 VDC, 100 mA max.
External Power Supply	20.4 to 26.4 VDC, 40 mA min.
Weight	120 g max.

Circuit Configuration	
	<ul style="list-style-type: none"> When overcurrent is detected, the ERR indicator will light, and the corresponding bit in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram	Signal name	Connector pin	Signal name
	Jxx_Ch1_Out00	A0	Jxx_Ch1_Out01
	Jxx_Ch1_Out02	B0	Jxx_Ch1_Out03
	Jxx_Ch1_Out04	A1	Jxx_Ch1_Out05
	Jxx_Ch1_Out06	B1	Jxx_Ch1_Out07
	Jxx_Ch1_Out08	A2	Jxx_Ch1_Out09
	Jxx_Ch1_Out10	B2	Jxx_Ch1_Out11
	Jxx_Ch1_Out12	A3	Jxx_Ch1_Out13
	Jxx_Ch1_Out14	B3	Jxx_Ch1_Out15
	0 V	A4	
		A5	
		B5	
		A6	
		B6	
		A7	
		B7	
		A8	COM (+V)
		B8	24 VDC

- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD232 Transistor Output Unit (32 Points)

Name	32-point Transistor Output Unit with MIL Connector (Sourcing Outputs)
Model	CJ1W-OD232
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2.0 A/common, 4.0 A/Unit
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	32 (16 points/common, 2 circuits)
Internal Current Consumption	5 VDC 150 mA max.
External Power Supply	20.4 to 26.4 VDC, 70 mA min.
Weight	80 g max.
Accessories	None
Circuit Configuration	<p>Diagram illustrating the internal circuit configuration of the CJ1W-OD232 Transistor Output Unit. The diagram shows two parallel channels, Ch1 and Ch2, each consisting of 16 output stages. Each stage includes a driver, a power transistor, and a diode. The outputs are connected to a common terminal labeled "0 V". The inputs are connected to "COM0 (+V)" and "COM1 (+V)". The outputs are labeled "Jxx_Ch1_Out00" through "Jxx_Ch1_Out15" and "Jxx_Ch2_Out00" through "Jxx_Ch2_Out15". An "Output indicator" is shown for each channel, and an "ERR indicator" is shown for the entire unit. A "Short-circuit protection" section is also indicated. A switch "SW" is shown connected to the common terminal.</p> <ul style="list-style-type: none"> When overcurrent is detected, the ERR indicator will light, and the corresponding bit (bit allocated for each common) in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram																																																																																																										
	<p>Allocated CIO word Signal name Connector pin Signal name Allocated CIO word</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>24 VDC</td><td>COM1 (+V)</td><td>1 2</td><td>COM1 (-V)</td><td></td></tr> <tr><td></td><td>0 V</td><td>3 4</td><td>0 V</td><td></td></tr> <tr><td></td><td>Jxx_Ch2_Out15</td><td>5 6</td><td>Jxx_Ch2_Out07</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out14</td><td>7 8</td><td>Jxx_Ch2_Out06</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out13</td><td>9 10</td><td>Jxx_Ch2_Out05</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out12</td><td>11 12</td><td>Jxx_Ch2_Out04</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out11</td><td>13 14</td><td>Jxx_Ch2_Out03</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out10</td><td>15 16</td><td>Jxx_Ch2_Out02</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out09</td><td>17 18</td><td>Jxx_Ch2_Out01</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch2_Out08</td><td>19 20</td><td>Jxx_Ch2_Out00</td><td>L</td></tr> <tr><td></td><td>COM0 (+V)</td><td>21 22</td><td>0 V</td><td></td></tr> <tr><td></td><td>0 V</td><td>23 24</td><td>0 V</td><td></td></tr> <tr><td></td><td>Jxx_Ch1_Out15</td><td>25 26</td><td>Jxx_Ch1_Out07</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out14</td><td>27 28</td><td>Jxx_Ch1_Out06</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out13</td><td>29 30</td><td>Jxx_Ch1_Out05</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out12</td><td>31 32</td><td>Jxx_Ch1_Out04</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out11</td><td>33 34</td><td>Jxx_Ch1_Out03</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out10</td><td>35 36</td><td>Jxx_Ch1_Out02</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out09</td><td>37 38</td><td>Jxx_Ch1_Out01</td><td>L</td></tr> <tr><td></td><td>Jxx_Ch1_Out08</td><td>39 40</td><td>Jxx_Ch1_Out00</td><td>L</td></tr> <tr><td></td><td>24 VDC</td><td></td><td></td><td></td></tr> </table> <ul style="list-style-type: none"> • When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • Be sure to wire both terminals 21 and 22 (COM0 (+V)). • Be sure to wire both terminals 1 and 2 (COM1 (+V)). • Be sure to wire both terminals 3 and 4 (0 V). • Be sure to wire both terminals 23 and 24 (0 V). • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. 	24 VDC	COM1 (+V)	1 2	COM1 (-V)			0 V	3 4	0 V			Jxx_Ch2_Out15	5 6	Jxx_Ch2_Out07	L		Jxx_Ch2_Out14	7 8	Jxx_Ch2_Out06	L		Jxx_Ch2_Out13	9 10	Jxx_Ch2_Out05	L		Jxx_Ch2_Out12	11 12	Jxx_Ch2_Out04	L		Jxx_Ch2_Out11	13 14	Jxx_Ch2_Out03	L		Jxx_Ch2_Out10	15 16	Jxx_Ch2_Out02	L		Jxx_Ch2_Out09	17 18	Jxx_Ch2_Out01	L		Jxx_Ch2_Out08	19 20	Jxx_Ch2_Out00	L		COM0 (+V)	21 22	0 V			0 V	23 24	0 V			Jxx_Ch1_Out15	25 26	Jxx_Ch1_Out07	L		Jxx_Ch1_Out14	27 28	Jxx_Ch1_Out06	L		Jxx_Ch1_Out13	29 30	Jxx_Ch1_Out05	L		Jxx_Ch1_Out12	31 32	Jxx_Ch1_Out04	L		Jxx_Ch1_Out11	33 34	Jxx_Ch1_Out03	L		Jxx_Ch1_Out10	35 36	Jxx_Ch1_Out02	L		Jxx_Ch1_Out09	37 38	Jxx_Ch1_Out01	L		Jxx_Ch1_Out08	39 40	Jxx_Ch1_Out00	L		24 VDC			
24 VDC	COM1 (+V)	1 2	COM1 (-V)																																																																																																							
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	24 VDC																																																																																																									

CJ1W-OD262 Transistor Output Unit (64 Points)

Name	64-point Transistor Output Unit with MIL Connectors (Sourcing Outputs)
Model	CJ1W-OD262
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit
Maximum Inrush Current	3.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	64 (16 points/common, 4 circuits)
Internal Current Consumption	170 mA max. (5 VDC)
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 50 mA min.
Weight	110 g max.
Accessories	None
Circuit Configuration	<p>Diagram illustrating the internal circuit configuration and signal allocation for the CJ1W-OD262 Transistor Output Unit. The unit contains four groups of 16 channels each, labeled Internal circuits 1 through 4. Each group has two common terminals (COM0, COM1, COM2, COM3) and 16 output terminals (Jxx_Ch1_Out00 to Jxx_Ch1_Out15, Jxx_Ch2_Out00 to Jxx_Ch2_Out15, Jxx_Ch3_Out00 to Jxx_Ch3_Out15, Jxx_Ch4_Out00 to Jxx_Ch4_Out15). The outputs are grouped into four sets of 16-bit words (Wd m, Wd m+1, Wd m+2, Wd m+3), which are then allocated to four MIL connectors (CN1 (OUT), CN2 (OUT)). An indicator switch is also present in the internal circuitry.</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

	CN1					CN2																																																																																																																																																																																																										
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- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 21 and 22 (COM0 (+V)) of CN1.
- Be sure to wire both terminals 1 and 2 (COM1 (+V)) of CN1.
- Be sure to wire both terminals 23 and 24 (0 V) of CN1.
- Be sure to wire both terminals 3 and 4 (0 V) of CN1.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 21 and 22 (COM2 (+V)) of CN2.
- Be sure to wire both terminals 1 and 2 (COM3 (+V)) of CN2.
- Be sure to wire both terminals 23 and 24 (0 V) of CN2.
- Be sure to wire both terminals 3 and 4 (0 V) of CN2.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

Bit Allocations for Output Unit

8-point Output Unit

Allocated CIO word		Signal name (CJ/NJ)
CIO	Bit	
Wd m (Output)	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
	:	:
	06	OUT6/Jxx_Ch1_Out06
	07	OUT7/Jxx_Ch1_Out07
	08	—
	09	—
	:	:
	14	—
	15	—

32-point Output Unit

Allocated CIO word		Signal name (CJ/NJ)
CIO	Bit	
Wd m (Output)	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
	:	:
	14	OUT14/Jxx_Ch1_Out14
	15	OUT15/Jxx_Ch1_Out15
Wd m+1 (Output)	00	OUT0/Jxx_Ch2_Out00
	01	OUT1/Jxx_Ch2_Out01
	:	:
	14	OUT14/Jxx_Ch2_Out14
	15	OUT15/Jxx_Ch2_Out15

16-point Output Unit

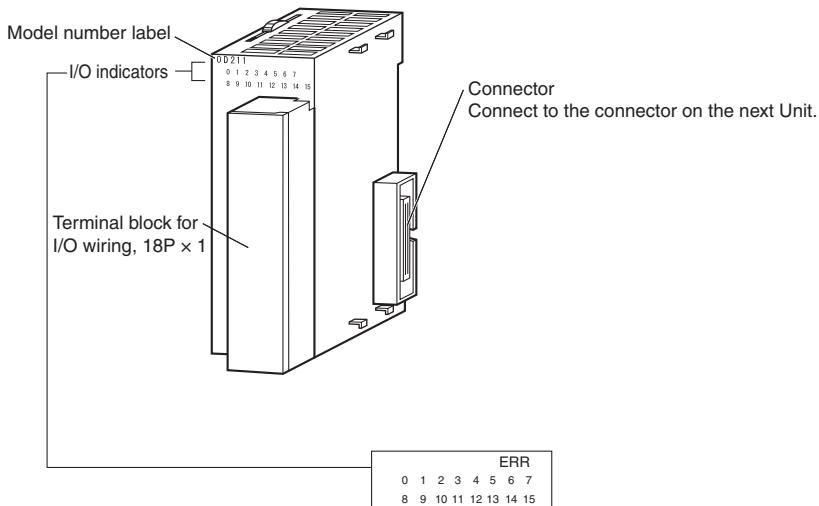
Allocated CIO word		Signal name (CJ/NJ)
CIO	Bit	
Wd m (Output)	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
	:	:
	14	OUT14/Jxx_Ch1_Out14
	15	OUT15/Jxx_Ch1_Out15

64-point Output Unit

Allocated CIO word		Signal name (CJ/NJ)
CIO	Bit	
Wd m (Output)	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
	:	:
	14	OUT14/Jxx_Ch1_Out14
	15	OUT15/Jxx_Ch1_Out15
Wd m+1 (Output)	00	OUT0/Jxx_Ch2_Out00
	01	OUT1/Jxx_Ch2_Out01
	:	:
	14	OUT14/Jxx_Ch2_Out14
	15	OUT15/Jxx_Ch2_Out15
Wd m+2 (Output)	00	OUT0/Jxx_Ch3_Out00
	01	OUT1/Jxx_Ch3_Out01
	:	:
	14	OUT14/Jxx_Ch3_Out14
	15	OUT15/Jxx_Ch3_Out15
Wd m+3 (Output)	00	OUT0/Jxx_Ch4_Out00
	01	OUT1/Jxx_Ch4_Out01
	:	:
	14	OUT14/Jxx_Ch4_Out14
	15	OUT15/Jxx_Ch4_Out15

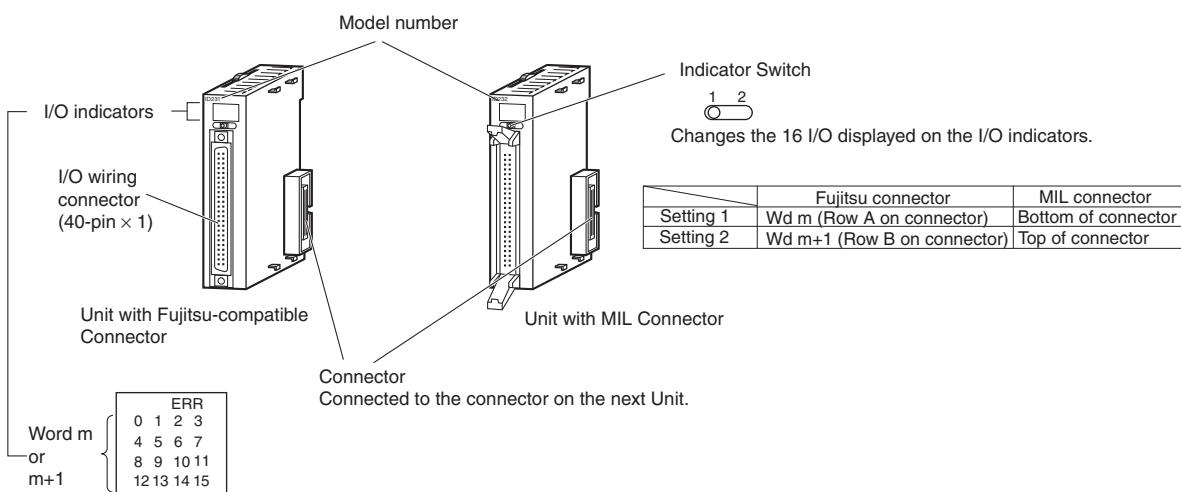
External Interface

8-point/16-point Units (18-point Terminal Blocks)



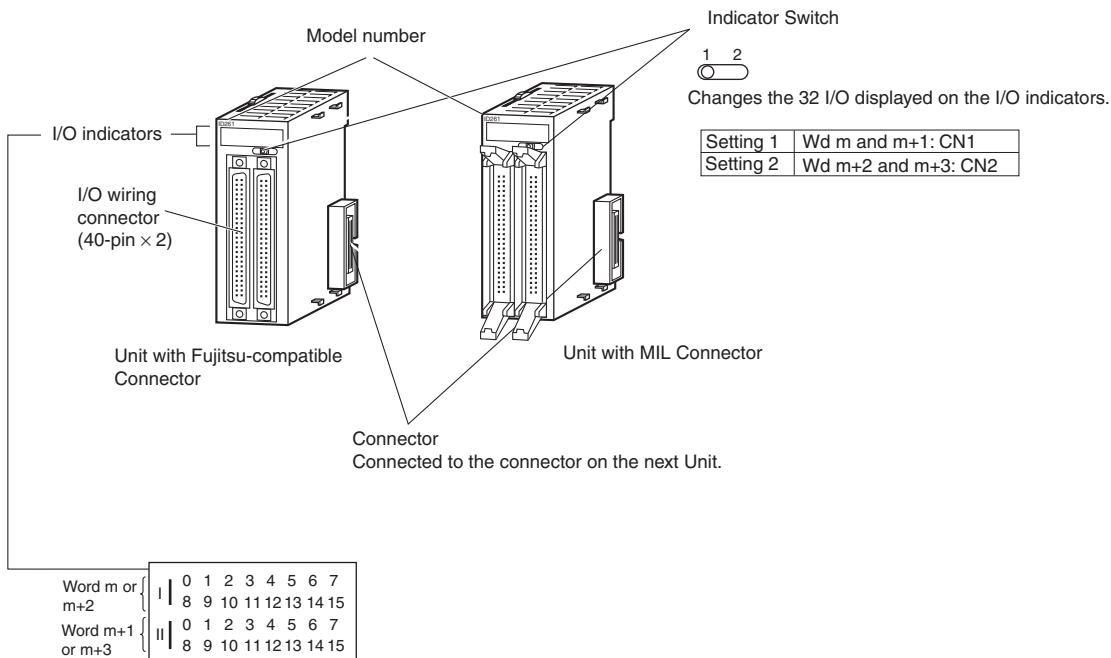
Note: The CJ1W-OD202, CJ1W-OD204, and CJ1W-OD212 also have an ERR indicator for the load short-circuit alarm.

32-point Units (Models with 40-point Fujitsu Connector or MIL Connector)



Note: Only the CJ1W-OD232 has an ERR indicator for the load short-circuit alarm.

64-point Units (Models with Two 40-point Fujitsu Connectors or MIL Connector)



Wiring Basic I/O Units with Terminal Blocks

Electric Wires

The following wire gauges are recommended.

Terminal Block Connector	Wire Size
18-terminal	AWG 22 to 18 (0.32 to 0.82 mm ²)

Crimp terminals

Use crimp terminals (M3) having the dimensions shown below.

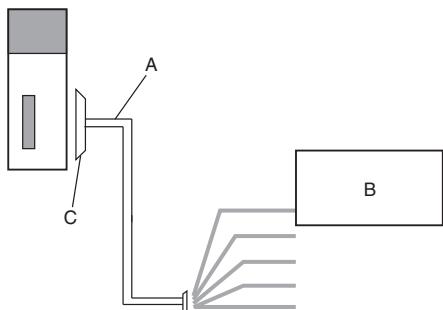


I/O Unit Wiring Methods

An I/O Unit can be connected to an external device by any of the following three methods.

1. User-provided Cable

An I/O Unit can be directly connected to an external device by using a connector.

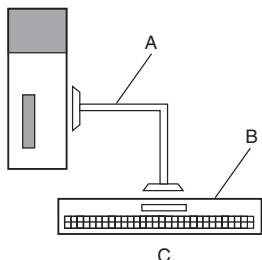


A	User-provided cable
B	External device
C	Connector

2. Connector-Terminal Block Conversion Unit

Use a Connecting Cable to connect to a Connector-Terminal Block Conversion Unit.

Converting the I/O Unit connector to a screw terminal block or push-in terminal block makes it easy to connect external devices.

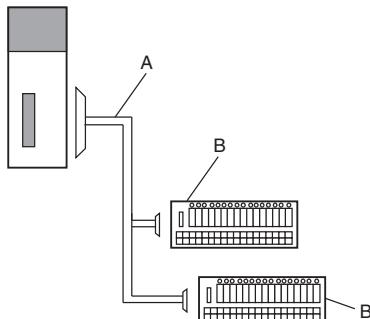


A	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
B	Connector-Terminal Block Conversion Unit XW2R
C	Conversion to a screw terminal block

3. I/O Relay Terminal

Use a Connecting Cable to connect to an I/O Relay Terminal.

The I/O specifications can be converted to relay outputs and AC inputs by connecting the I/O Relay Terminal to an I/O Unit.



A	Connecting Cable for I/O Relay Terminals XW2Z-R
B	I/O Relay Terminals G70V, G7TC Relay Terminals G70D, G70R I/O Terminal Socket G70A Or, conversion to relay outputs and AC inputs.

1. Using User-made Cables with Connector

Available Connectors

Use the following connectors when assembling a connector and cable.

32- and 64-point Basic I/O Units with Fujitsu-compatible Connectors

Applicable Units

Model	Specifications	Pins
CJ1W-OD231	Transistor Output Unit with Sinking Outputs, 32 outputs	
CJ1W-OD261	Transistor Output Unit with Sinking Outputs, 64 outputs	40

Applicable Cable-side Connectors

Connection	Pins	OMRON set	Fujitsu parts
Solder-type	40	C500-CE404	Socket: FCN-361J040-AU Connector cover: FCN-360C040-J2
Crimped	40	C500-CE405	Socket: FCN-363J040 Connector cover: FCN-360C040-J2 Contacts: FCN-363J-AU
Pressure-welded	40	C500-CE403	FCN-367J040-AU/F

32- and 64-point Basic I/O Units with MIL Connectors

Applicable Units

Model	Specifications	Pins
CJ1W-OD232	Transistor Output Unit with sourcing outputs, 32 outputs	
CJ1W-OD262	Transistor Output Unit with sourcing outputs, 64 outputs	
CJ1W-OD233 CJ1W-OD234	Transistor Output Unit with sinking outputs, 32 outputs	40
CJ1W-OD263	Transistor Output Unit with sinking outputs, 64 outputs	

Applicable Cable-side Connectors

Connection	Pins	OMRON set	DDK parts
Pressure-welded	40	XG4M-4030-T *1	FRC5-A040-3T0S
	40	XG5N-401 *2	HU-40OS2-001
Crimped	–	Crimp Contacts for XG5N *3 XG5W-0232 (loose contacts: 100 pieces) XG5W-0232-R (reel contacts: 10,000 pieces)	HU-111S

*1. Socket and Stain Relief set.

*2. Crimp Contacts (XG5W-0232) are sold separately.

*3. Applicable wire size is AWG 28 to 24. For applicable conductor construction and more information, visit the OMRON website at www.ia.omron.com.

Wire Size

We recommend using cable with wire gauges of AWG 28 to 24 (0.08 to 0.2 mm²). Use cable with external wire diameters of 1.61 mm max.

Crimping Tools

The following models are recommended for crimping tools and pressure-welding tools for Fujitsu connectors.

Tools for Crimped Connectors (Fujitsu Component)

Product Name	Model
Hand Crimping Tool	FCN-363T-T005/H
Contact Withdrawal Tool	FCN-360T-T001/H

Tools for Pressure-welded Connectors (Fujitsu Component)

Product Name	Model
Hand Press	FCN-707T-T101/H
Cable Cutter	FCN-707T-T001/H
Locator Plate	FCN-367T-T012/H

The following models are recommended for tools for OMRON MIL connectors.

Tools for Pressure-welded Connectors (OMRON)

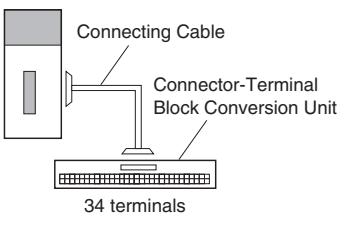
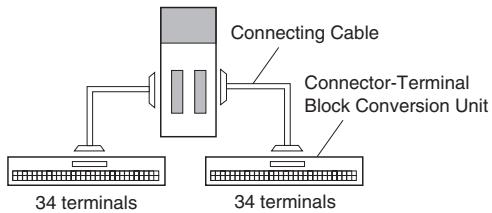
Product Name	Model
Pressure-welding Tool	XY2B-0002
Attachment	XY2B-1007

Tools for Crimped Connectors (OMRON)

Product Name	Model
Manual Crimping Tool	XY2B-7007

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units

Pattern	Configuration
A	 <p>Diagram A shows a single CJ1W-OD connector at the top, connected by a "Connecting Cable" to a "Connector-Terminal Block Conversion Unit". This unit is shown with a vertical slot and a horizontal row of 34 terminals at the bottom.</p>
B	 <p>Diagram B shows two CJ1W-OD connectors at the top, each connected by a "Connecting Cable" to a "Connector-Terminal Block Conversion Unit". Each unit has a vertical slot and a horizontal row of 34 terminals at the bottom. The two units are positioned side-by-side.</p>

Combination of I/O Units with Connector-Terminal Block Conversion Units

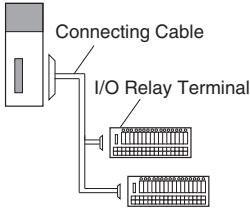
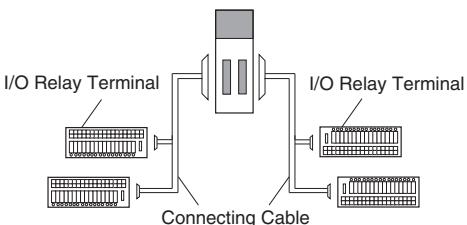
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals
CJ1W-OD231	32 outputs	1 Fujitsu connector	NPN	A	XW2Z-□□□PF	XW2R-J34G-C3	Phillips screw	No
						XW2R-E34G-C3	Slotted screw (rise up)	
						XW2R-P34G-C3	Push-in spring	
CJ1W-OD232	32 outputs	1 MIL connector	PNP	A	XW2Z-□□□PM	XW2R-J34G-C4	Phillips screw	No
						XW2R-E34G-C4	Slotted screw (rise up)	
						XW2R-P34G-C4	Push-in spring	
CJ1W-OD233	32 outputs	1 MIL connector	NPN	A	XW2Z-□□□PM	XW2R-J34G-C4	Phillips screw	No
						XW2R-E34G-C4	Slotted screw (rise up)	
						XW2R-P34G-C4	Push-in spring	
CJ1W-OD234	32 outputs	1 MIL connector	NPN	A	XW2Z-□□□PM	XW2R-J34G-C4	Phillips screw	No
						XW2R-E34G-C4	Slotted screw (rise up)	
						XW2R-P34G-C4	Push-in spring	
CJ1W-OD261	64 outputs	2 Fujitsu connectors	NPN	B	XW2Z-□□□PF (2 pcs)	XW2R-J34G-C3 (2 Units)	Phillips screw	No
						XW2R-E34G-C3 (2 Units)	Slotted screw (rise up)	
						XW2R-P34G-C3 (2 Units)	Push-in spring	
CJ1W-OD262	64 outputs	2 MIL connectors	PNP	B	XW2Z-□□□PM (2 pcs)	XW2R-J34G-C4 (2 Units)	Phillips screw	No
						XW2R-E34G-C4 (2 Units)	Slotted screw (rise up)	
						XW2R-P34G-C4 (2 Units)	Push-in spring	
CJ1W-OD263	64 outputs	2 MIL connectors	NPN	B	XW2Z-□□□PM (2 pcs)	XW2R-J34G-C4 (2 Units)	Phillips screw	No
						XW2R-E34G-C4 (2 Units)	Slotted screw (rise up)	
						XW2R-P34G-C4 (2 Units)	Push-in spring	

* The box □ is replaced by the cable length.

Note: For details, refer to the XW2R series catalog (Cat. No. G077).

3. Connecting I/O Relay Terminals

Connection Patterns for I/O Relay Terminals

Pattern	Configuration
A	
B	

Combination of I/O Units with I/O Relay Terminals and Connecting Cables

Model	I/O Units			Connection pattern	Connecting Cables		I/O Relay Terminals			
	I/O capacity	External connectors	Polarity		Model *1	Quantity required	Model	I/O points	Quantity required	Wiring method
CJ1W-OD231	32 outputs	1 Fujitsu connector (40 p)	Sinking (NPN)	A	XW2Z-RO□C-□	1	G70V-SOC16P(-C4)	16	2	Push-in spring
							G7TC-OC16	16		Screw terminal
							G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		
CJ1W-OD232	32 outputs	1 MIL connector (40 p)	Sourcing (PNP)	A	XW2Z-RO□-□-D1	1	G70A-ZOC16-4 *3	16	2	Push-in spring
					XW2Z-RI□-□-D1	1	G70D-SOC/FOM16-1	16		Screw terminal
CJ1W-OD233	32 outputs	1 MIL connector (40 p)	Sinking (NPN)	A	XW2Z-RO□-□-D1	1	G7TC-OC16-1	16	2	Push-in spring
							G70V-SOC16P(-C4)	16		Screw terminal
							G7TC-OC16	16		
							G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
CJ1W-OD234	32 outputs	1 MIL connector (40 p)	Sinking (NPN)	A	XW2Z-RO□C-□	1	G70R-SOC08 *2	8	2	Push-in spring
							G70V-SOC16P(-C4)	16		Screw terminal
							G7TC-OC16	16		
							G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
CJ1W-OD261	64 outputs	2 Fujitsu connectors (40 p)	Sinking (NPN)	B	XW2Z-RO□C-□	2	G70R-SOC08 *2	8	4	Push-in spring
							G70V-SOC16P(-C4)	16		Screw terminal
							G7TC-OC16	16		
							G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
CJ1W-OD262	64 outputs	2 MIL connectors (40 p)	Sourcing (PNP)	B	XW2Z-RO□-□-D1	2	G70R-SOC08 *2	8	4	Push-in spring
							G70A-ZOC16-4 *3	16		Screw terminal
							G70D-SOC/FOM16-1	16		
							G7TC-OC16-1	16		
							G70V-SOC16P-1(-C4)	16		
							G70A-ZOC16-3 *3	16		
CJ1W-OD263	64 outputs	2 MIL connectors (40 p)	Sinking (NPN)	B	XW2Z-RO□-□-D1	2	G70R-SOC08 *2	8	4	Push-in spring
							G70D-SOC/FOM16	16		Screw terminal
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		
							G70V-SOC16P(-C4)	16		

*1. The box □ is replaced by the cable length.

*2. In addition to the G70R-SOC08, 8-point output G7TC-OC08 and G70D-SOC08 models are available.

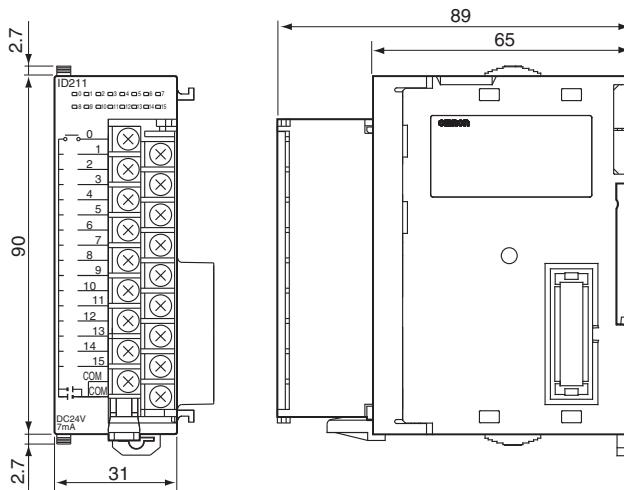
*3. The G70A-ZOC16-3/4 has I/O terminal sockets. Mounted relays are sold separately. In addition, an G70A-ZOC16-3/4 will be SPDT × 16 points with G2R relays.

Dimensions

(Unit: mm)

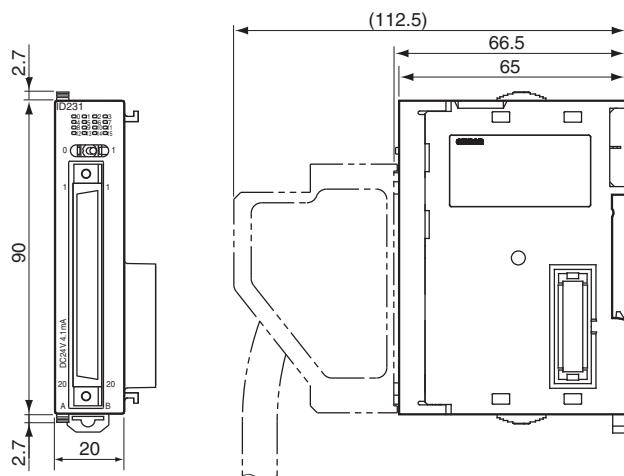
8-point/16-point Units (18-point Terminal Blocks)

CJ1W-OC201/ OC211/ OA201/ OD201 / OD202/ OD203/ OD204/ OD211/ OD213 / OD212

**32-point Unit (Output Units)**

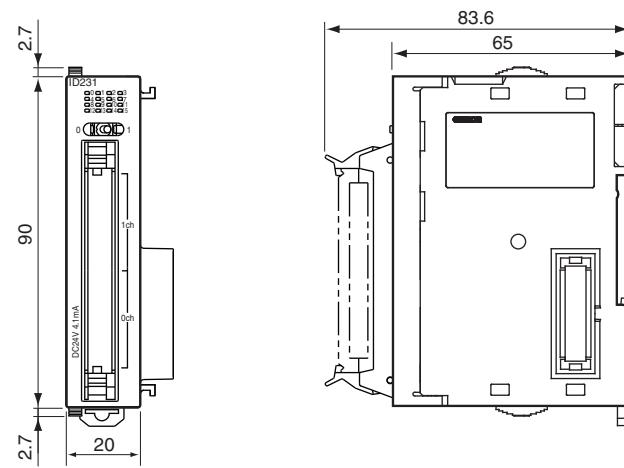
With Fujitsu-Compatible Connector (40-pin × 1)

CJ1W-OD231



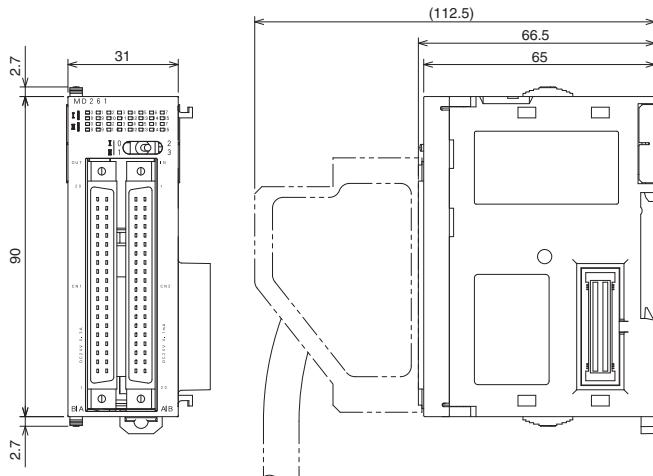
With MIL Connector (40-pin × 1)

CJ1W-OD232 / OD233 / OD234

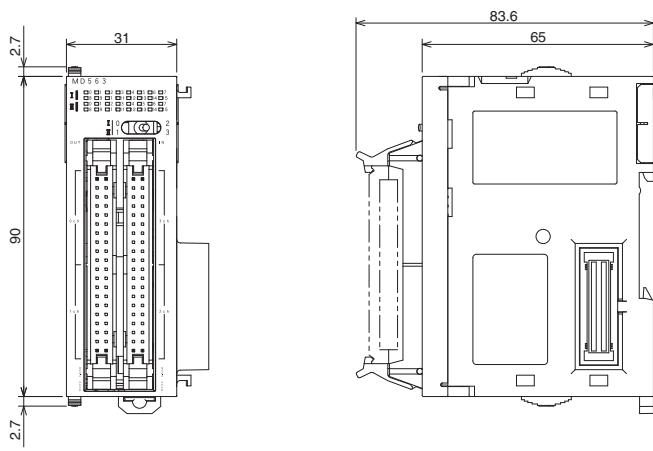


64-point Units (Output Units)

With Fujitsu-Compatible Connector (40-pin × 2)
CJ1W-OD261



With MIL Connector (40-pin × 2)
CJ1W-OD262 / OD263



Related Manuals

Name	Cat. No.	Contents
CJ-series CJ2 CPU Unit Hardware User's Manual CJ2H-CPU6□-EIP CJ2H-CPU6□ CJ2M-CPU□□	W472	Describes the following for CJ2 CPU Units: <ul style="list-style-type: none"> • Overview and features • Basic system configuration • Part nomenclature and functions • Mounting and setting procedure • Remedies for errors • Also refer to the <i>Software User's Manual</i> (W473).
CJ Series CJ1H-CPU□□H-R, CJ1G/H-CPU□□H, CJ1G-CPU□□P, CJ1G-CPU□□, CJ1M-CPU□□ Programmable Controllers Operation Manual	W393	Provides an outlines of and describes the design, installation, maintenance, and other basic operations for the CJ-series PLCs.
NJ-series CPU Unit Hardware User's Manual NJ501-□□□□	W500	An introduction to the entire NJ-series system is provided along with the following information on a Controller built with an NJ501 CPU Unit. <ul style="list-style-type: none"> • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Maintenance and inspection Use this manual together with the NJ-series CPU Unit Software User's Manual (Cat. No. W501).

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