CJ-series Output Units CJ1W-OC/OA/OD

CSM_CJ1W-OUTPUT_DS_E_8_7

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			Specifications			No. of words	consu	rrent mption A)	Model	Standards
	name	Output type	I/O points	Maximum switching capacity	Commons	External connection	allocated	5 V	24 V		
	Relay Contact Output Units	_	8 outputs	250 VAC/24 VDC, 2 A	Independen t contacts	Removable terminal block	1 words	0.09	0.048 max.	CJ1W-OC201	
		_	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	UC1, N, L, CE
		Sinking	8 outputs	12 to 24 VDC, 2 A	4 points, 1 common	Removable terminal block	1 words	0.09	-	CJ1W-OD201	
		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	
CJ1 Basic I/O Units	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,
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.14	-	CJ1W-OD233	CE
	P	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
		Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	Fujitsu connector	4 words	0.17	-	CJ1W-OD261	
	í.	Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	-	CJ1W-OD263	
		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	UC1, N, L, CE
		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	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	Rem	arks	Applicable Units	Model	Standards
	Soldered	FCN-361J040-AU FCN-360C040-J2	Connector Connector Cover	Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit	C500-CE404	
40-pin Connectors	Crimped	FCN-363J040 FCN-363J-AU FCN-360C040-J2	Housing Contactor Connector Cover	CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit	C500-CE405	
	Pressure welded	FCN-367J040-AU/F		CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE403	
	Soldered	FCN-361J024-AU FCN-360C024-J2	Connector Connector Cover		C500-CE241	
24-pin Connectors	Crimped	FCN-363J024 FCN-363J-AU FCN-360C024-J2	Socket Contactor Connector Cover	Fujitsu Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit	C500-CE242	
	Pressure welded	FCN-367J024-AU/F			C500-CE243	

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	Pressure welded	FRC5-AO40-3TOS	MIL Connectors: CJ1W-ID232/233 (32 inputs): 1 per Unit CJ1W-OD232/233/234 (32 outputs):1 per Unit	XG4M-4030-T	
Connectors	Crimped	_	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	XG5N-401*	_
20-pin	Pressure welded	FRC5-AO20-3TOS	MIL Connectors:	XG4M-2030-T	
Connectors	Crimped	-	CJ1W-MD232/233 (16 inputs, 16 outputs): 2 per Unit	XG5N-201*	_

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

Applicable Connector-Terminal Block Conversion Units

		Number	Wiring	Terminal		Size		Mou	nting	Common	Bleeder				
Туре		of poles		type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws	terminals		Indicators	I/O Units	Model *	Standards
			Phillips screw										CJ1W-OD231 CJ1W-OD261	XW2R-J34GD-C3	
				М3	50	48.05	130.7						CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-J34GD-C4	
			Slotted screw (rise up)										CJ1W-OD231 CJ1W-OD261	XW2R-E34GD-C3	
PLCs	XW2R			M3 (European type)	50	44.81	98.5	Yes	No	No	No	No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-E34GD-C4	_
			Push-in spring										CJ1W-OD231 CJ1W-OD261	XW2R-P34GD-C3	
				Clamp	50	44.81	98.5						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 lenght [m]	Model
XW2Z-@@@PF		0.5	XW2Z-050PF
		1	XW2Z-100PF
	One 40-pin Fujitsu Connector to One 40-pin MIL Connector	1.5	XW2Z-150PF
	One 40-pin Fujitsu Connector to One 40-pin Mill Connector	2	XW2Z-200PF
		3	XW2Z-300PF
		5	XW2Z-500PF
XW2Z-@@@PM		0.5	XW2Z-050PM
		1	XW2Z-100PM
	One 40 pin MIL Connector to One 40 pin MIL Connector	1.5	XW2Z-150PM
	One 40-pin MIL Connector to One 40-pin MIL Connector	2	XW2Z-200PM
		3	XW2Z-300PM
		5	XW2Z-500PM

				S	pecifications	;		Size (hor	izontal m	ounting)	Mou	nting		
Туре	Series	Class	ification	Polarity	Number of points	Rated ON current at contacts	Rated voltage	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standard
				NPN									G70V-SID16P *4	
		Inputs	DC	PNP	16	50 mA							G70V-SID16P-1 *4]
Push-In	G70V		inputs	NPN	(SPSTNO×16)								G70V-SID16P-C16 *5	UC, CE
Plus terminal				PNP			24 VDC	143	90	56	Yes	Yes	G70V-SID16P-1-C16 *5	(TÜV
block				NPN PNP	10	6 A/point,							G70V-SOC16P *4 G70V-SOC16P-1 *4	certified
		Outputs	Relay outputs	NPN	16 (SPDT×16)	10 Å/							G70V-SOC16P-C4 *6	-
				PNP		common							G70V-SOC16P-1-C4 *6	-
			AC				100/(110) VAC						G7TC-IA16 AC100/110	
			inputs				200/(220) VAC						G7TC-IA16 AC200/220	-
		Inputs		NPN	16 (SPSTNO×16)	1A	12 VDC	182					G7TC-ID16 DC12	1
	G7TC		DC inputs				24 VDC						G7TC-ID16 DC24	1
	mil						100/110 VDC						G7TC-ID16 DC100/110]
Standard	STUTIE				8		12 VDC	102	85	68	Yes	No	G7TC-OC08 DC12	U, C
	2 Manual Contraction			NPN	(SPSTNO × 8)		24 VDC	_					G7TC-OC08 DC24	-
		Outputs	Relay outputs		16 (SPSTNO×16)	5A	12 VDC						G7TC-OC16 DC12	-
			ouipuis		. ,		24 VDC	182					G7TC-OC16 DC24	-
				PNP	16 (SPSTNO × 16)		12 VDC 24 VDC						G7TC-OC16-1 DC12 G7TC-OC16-1 DC24	-
	G70A *1 (Socket only)	Inputs	Relay inputs	NPN/ PNP	16	100 mA	110 VDC max., 240 VAC max.						G70A-ZOC16-5	
High- capacity socket	A MARK	Outputs	Relay outputs	NPN	(SPDT × 16 possible with G2R Relays)	10 A (Ter- minal block al- lowable	*2 24 VDC	234	75	64	Yes	No	G70A-ZOC16-3 G70A-ZOC16-4	U, C, C (VDE certified
	Vertical type G70D-V		Relay outputs			5 A or 3 A *3							G70D-VSOC16	
			MOSFET relay outputs	NPN	16 (SPSTNO×16)	0.3 A		135	46	81	Yes	Yes	G70D-VFOM16	U, C, CE (VDE certified)
Space- saving	Flat type G70D	Outputs		NPN	8 (SPSTNO × 8)	5 A	24 VDC	68	93	44			G70D-SOC08	
Saving	MILLIN		Relay outputs		16 (SPSTNO×16)	3 A							G70D-SOC16	
	THE FRANCE			PNP	16 (SPSTNO×16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	_
			MOSFET	NPN	16	0.2.4							G70D-FOM16	
	1 Tentuttur		relay outputs	PNP	(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	_

Applicable I/O Relay Terminals

*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 I/O Classification Туре Name Appearance Cable length L (mm) Models 1,000 XW2Z-R100C A side B side Devi e end I/O RelayTermina 1,500 XW2Z-R150C Cables with Connectors (1:1) Fujitsu connectors (24 pins) 16 I/O points 2,000 XW2Z-R200C XW2Z-R□C 3.000 XW2Z-R300C 5,000 XW2Z-R500C (A) 1,000 XW2Z-RI100C-75 (B) 750 A side B side (A) 1,500 (B) 1,250 XW2Z-RI150C-125 I/O RelavTerminal Device end (A) 2,000 (B) 1,750 XW2Z-RI200C-175 32 input points (A) (A) 3,000 (B) 2,750 XW2Z-RI300C-275 Cables with Connectors XW2Z-RI500C-475 (1:2)(A) 5,000 (B) 4,750 Fujitsu connectors (40 pins) (A) 1,000 (B) 750 XW2Z-RO100C-75 XW2Z-RI□C-□ (120) (A) 1,500 (B) 1,250 XW2Z-RO150C-125 XW2Z-RO□C-□ (B) 1,750 (A) 2,000 XW2Z-RO200C-175 32 output points (A) 3,000 (B) 2,750 XW2Z-RO300C-275 (B) (A) 5,000 (B) 4,750 XW2Z-RO500C-475 Straight length (without bends) XW2Z-RI25C 250 A side B side Cables with Connectors Device end I/O Relay Termina (1:1)500 XW2Z-RI50C MIL connectors (20 pins) 16 I/O points XW2Z-RI□C 250 XW2Z-RO25C XW2Z-RO□C 500 XW2Z-RO50C (B) 250 XW2Z-RO50-25-D1 (A) 500 (A) 750 (B) 500 XW2Z-R075-50-D1 (A) 1,000 (B) 750 XW2Z-RO100-75-D1 A side B side (A) 1,500 (B) 1,250 XW2Z-RO150-125-D1 Device end I/O RelayTerminal (A) 2,000 (B) 1,750 XW2Z-RO200-175-D1 (A) Cables with Connectors XW2Z-RO300-275-D1 (A) 3,000 (B) 2,750 (1:2)(A) 5,000 (B) 4,750 XW2Z-RO500-475-D1 MIL connectors (40 pins) 32 I/O points (A) 500 (B) 250 XW2Z-RI50-25-D1 XW2Z-RO□-□-D1, (A) 750 (B) 500 XW2Z-RI75-50-D1 XW2Z-RI□-□-D1 (120)(A) 1,000 (B) 750 XW2Z-RI100-75-D1 (A) 1,500 (B) 1,250 XW2Z-RI150-125-D1 (B) Straight length (without bends) (A) 2,000 (B) 1,750 XW2Z-RI200-175-D1 XW2Z-RI300-275-D1 (A) 3,000 (B) 2,750 (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

	NJ s	ystem	CJ system	(CJ1, CJ2)	CP1H system	NSJ s	ystem
Model	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		10 Units		10 Units			10 Units
CJ1W-OD233	10 Units	(Per Expansion	10 Units	(Per Expansion	Not Supported	Not Supported	(Per Expansion
CJ1W-OD234		Rack)		Backplane)			Backplane)
CJ1W-OD261							
CJ1W-OD263							
CJ1W-OD202							
CJ1W-OD204							
CJ1W-OD212							
CJ1W-OD232							
CJ1W-OD262							

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 (cosφ = 1), 2 A 250 VAC (cosφ = 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 eq = 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.
lumber of Circuits	8 independent contacts
nsulation Resistance	20 M $_{\Omega}$ 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.
nternal Current Consumption	90 mA 5 VDC max. 48 mA 24 VDC max. (6 mA × No. of ON points)
Veight	140 g max.
Circuit Configuration	 name Jxx_Ch1_Out00 Jxx_Ch1_Out00 Jxx_Ch1_Out00 Jxx_Ch1_Out00 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 connector pint Signal name 1<

* 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-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
ON Response Time	15 ms max.
OFF Response Time	15 ms max.
Number of Circuits	16 points/common, 1 circuit
Insulation Resistance	20 M $_{\Omega}$ 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	Signal name Jxx_Ch1_Out00 to Jxx_Ch1_Out15 COM COM COM
External connection and terminal-device variable diagram	Signal conec- name torpin name name torpin name 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 M Ω 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	Signal name Signal name Signal name Signal name Signal name Signal name Signal name Signal name Signal name Signal Nx_Ch1_Out00 to Jxx_Ch1_Out07 COM Fuse 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	Connec- tor pin * Signal NC A0 B0 Jxx Ch1 Out00 L H B1 Jxx Ch1 Out02 L H B1 Jxx Ch1 Out02 L H B1 Jxx Ch1 Out02 L H B2 Jxx Ch1 Out02 L H B2 Jxx Ch1 Out02 L H B4 Jxx Ch1 Out03 L H B4 Jxx Ch1 Out03 L H B4 Jxx Ch1 Out03 L H B4 Jxx Ch1 Out03 L H B4 Jxx Ch1 Out03 L H B4 Jxx Ch1 Out03 L H B4 Jxx Ch1 Out05 L H B5 Jxx Ch1 Out05 L H B7 COM B8 B8 B8 B8 B8 B8 B8 B8 B8 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.



* 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-OD203 Transistor Output Unit (8 Points)

the Units.



CJ1W-OD211 Transistor Output Unit (16 Points)

* 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)

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)



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. 1.5 V max.
Residual Voltage ON Response Time	0.1 ms max.
OFF Response Time 0	
	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	140 mA max.
Consumption Fuse	None
External Power	
Supply	10.2 to 26.4 VDC, 30 mA min.
Weight	70 g max.
Circuit Configuration	 Signal Allocated ClO word V/ Jxx_Ch1_Out00 to Jxx_Ch1_Out15 Wd m Output indicator SW Output indicator The signal names of the terminals are the device variable names. The device variable names that use "Jxx" as the device name.
External connection variable diagram	Allocated CIO word name to rpin name to rpin Signal CIO word CIO

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	
	20.4 to 26.4 VDC
Voltage Range	
Maximum Load	0.5 A/point, 2 A/common, 4 A/Unit
Current	
Maximum Inrush	4.0 A/point, 10 ms max.
Current	
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	15 μs max.
OFF Response Time 8	
	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	220 mA max.
Consumption	
Fuse	None
External Power	
Supply	20.4 to 26.4 VDC, 110 mA min.
Weight	70 g max.
	Signal name Allocated
	CIO word
	J J J J J J J J J J J J J J J J J J J
	↓ ↓ ↓ ↓ Jxx_Ch1_Out15 ↓
	│
Circuit Configuration	Utput indicator
Circuit Configuration	Single Output indicator
	○ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
	↓ ↓ ↓ ↓ Jxx_Ch2_Out15
	│
	│
	The signal names of the terminals are the device variable names.
	Connec- Signal Allocated Connec- Signal Allocated Connec- Signal
	 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.
	Comparison of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. Allocated Signal Connec- CIO word name Connec- tor pin name CIO word
	Comparing the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. Allocated Signal Connec- CIO word Name Connec- CIO word VIC +V 12 +V
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	COM1 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 Name Connec- tor pin Signal CIO word CIO word CIO Vord V V V V V V V V V V V V V V V V V V V
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	COM1 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 Signal Connec- tor pin Signal Allocated Cl0 word Jxx_Ch2_Out15 Jxx_Ch2_Out16 Jxx_Ch2_Out17 Jxx_Ch2_Out13 Jxx_Ch2_Out13 Jxx_Ch2_Out13
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	COM1 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 Connec- tor pin Signal Allocated CIO word Jxx_Ch2_Out15 Jxx_Ch2_Out15 Jxx_Ch2_Out10 Jxx_Ch2_Dx Jxx_Ch2_Dx Jxx_Ch2_Dx Jxx_Ch2_Dx Jxx_Ch2_D
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	Comec- Color pin Signal Allocated Clo word Signal Connec- Connec- Connec- Connec- Clo word Clo
	COM1 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 Connec- Signal Allocated CIO word Jxx_Ch2_Out15 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out10 Jxx_Ch2_O
	Comec- Color pin Signal Allocated Clo word Signal Connec- Connec- Connec- Connec- Clo word Clo
	 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 ClO word name Connec- ClO word Name Connec- Signal Allocated ClO word Name Connec- Clo word Name Connec- Name Clo word Name Clo Word N
External connection	• 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 Connec- tor pin Signal name Allocated CIO word 4llocated CIO word Signal name Connec- tor pin Signal name Allocated CIO word 5 6 Jxx_Ch2_Out10 3 4 Jxx_Ch2_Out07 4 Jxx_Ch2_Out13 7 8 Jxx_Ch2_Out05 1 4 Jxx_Ch2_Out10 10 Jxx_Ch2_Out00 1 1 4 Jxx_Ch2_Out10 1 1 Jxx_Ch2_Out03 1 4 Jxx_Ch2_Out10 1 1 Jxx_Ch2_Out03 1 4 Jxx_Ch2_Out10 1 1 Jxx_Ch2_Out03 1 4 Jxx_Ch2_Out10 1 1 Jxx_Ch2_Out04 1 4 Jxx_Ch2_Out10 1 1 Jxx_Ch2_Out04 1 4 Jxx_Ch2_Out04 1 1 Jxx_Ch2_Out04 1 4 Jxx_Ch2_Out04 1 1 Jxx_Ch2_Out04 1 4 Jxx_Ch2_Out04 1 1
and terminal-device	 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 name Connector Signal Cloword Name CIO word CIO word 4 UDC + V 1 2 Jxx_Ch2_Out15 5 6 Jxx_Ch2_Out16 5 6 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out16 5 6 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_C
	 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 Signal name Connector pin name Cloword Cloword name Cloword
and terminal-device	 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 Signal Connec- CIO word name Connec- CIO word Name COMI Allocated CIO word Name COMI Jxx_Ch2_Out15 Jxx_Ch2_Out15 Jxx_Ch2_Out16 Jxx_Ch2_Out17 Jxx_
and terminal-device	• 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 Signal Connector pin Signal Allocated Cloword Signal Connector pin Signal Allocated Vac.Ch2_Out13 3.4 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out13 9.10 Jxx_Ch2_Out04 Jxx_Ch2_Out05 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out10 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out10 Jxx_Ch2_Out10 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out10 15.16 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch1_Out14 22.24 Jxx_Ch1_Out14 Jxx_Ch2_Out04 Jxx_Ch1_Out14 22.24 Jxx_Ch1_Out07 Jxx_Ch1_Out07 Jxx_Ch1_Out14 22.24 Jxx_Ch1_Out05 Jxx_Ch1_Out05
and terminal-device	• 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 Signal Connector pin Signal Allocated Cloword Signal Connector pin Signal Allocated Vac.Ch2_Out13 3.4 Jxx_Ch2_Out07 Jxx_Ch2_Out07 Jxx_Ch2_Out13 9.10 Jxx_Ch2_Out04 Jxx_Ch2_Out05 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out10 Jxx_Ch2_Out04 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out10 Jxx_Ch2_Out10 Jxx_Ch2_Out11 13.14 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch2_Out10 15.16 Jxx_Ch2_Out04 Jxx_Ch2_Out04 Jxx_Ch1_Out14 22.24 Jxx_Ch1_Out14 Jxx_Ch2_Out04 Jxx_Ch1_Out14 22.24 Jxx_Ch1_Out07 Jxx_Ch1_Out07 Jxx_Ch1_Out14 22.24 Jxx_Ch1_Out05 Jxx_Ch1_Out05
and terminal-device	• 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 Signal Connec- CIO word name Conne- CIO word Name Connec- CIO word Name Conne- CIO word Name C
and terminal-device	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 Cloword Allocated Allocated Allocated Cloword Allocated Cloword Allocated
and terminal-device	Come- 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 Cloword Allocated Cloword
and terminal-device	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 Allocated CIO word Allocated
and terminal-device	Come- 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 CO word name Connec- COM 1 24 VDC + V 1 2 + V Jox_Ch2_Out15 3 4 Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out13 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out17 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out17 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch2_Out07 + Jox_Ch1_Out07 + Jox_Ch1_Out
and terminal-device	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 Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Jax Ch2_Out15 S S Jax Ch2_Out17 Jax Ch2_Out05 Jax Ch2_Out17 Jax Ch2_Out05 Jax Ch2_Out05 Jax Ch2_Out05 Jax Ch2_Out07 Jax Ch1_Out1 Jax Ch1_Out07 Jax Ch1_O
and terminal-device	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 Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Jax Ch2_Out15 S S Jax Ch2_Out17 Jax Ch2_Out05 Jax Ch2_Out17 Jax Ch2_Out05 Jax Ch2_Out05 Jax Ch2_Out05 Jax Ch2_Out07 Jax Ch1_Out1 Jax Ch1_Out07 Jax Ch1_O
and terminal-device	 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 Connec- tor pin Signal Connec- tor pin Signal Connec- tor pin Signal Allocated CIO word Jax_Ch2_Out15 Jax_Ch2_Out16 Jax_Ch2_Out17 Jax_Ch2_Out19 Jax_Ch1_Out19 Jax_Ch1_Out19 Jax_2 Sh2_Out19 Jax_Ch1_Out19 Jax_2 Sh2_Out19 Jax_Ch1_Out19 Jax_2 Sh2_Out19 Jax_Ch1_Out19 Jax_2 Sh1_Out19 Jax_3 Sh1_Out19
and terminal-device	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 Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Connec- Signal Connec- Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Signal Connec- Jax Ch2_Out15 S S Jax Ch2_Out17 Jax Ch2_Out05 Jax Ch2_Out17 Jax Ch2_Out05 Jax Ch2_Out05 Jax Ch2_Out05 Jax Ch2_Out07 Jax Ch1_Out1 Jax Ch1_Out07 Jax Ch1_O
and terminal-device	 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 Clo word Signal Connection of printing and the printing are the device name. Allocated Clo word Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Diversion Or preventing are the device name. Al
and terminal-device	 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 Signal Connector print Connec
and terminal-device	 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 Clo word Signal Connection of printing and the printing are the device name. Allocated Clo word Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Clo word Or printing are the device name. Allocated Diversion Or preventing are the device name. Al

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 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	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	Signal name Allocated CIO word +V Jxx_Ch1_Out00 Jxx_Ch1_Out15 Output indicator +V Jxx_Ch2_Out00 Jxx_Ch2_Out15 Output indicator +V Jxx_Ch2_Out15 Output indicator +V Jxx_Ch2_Out15 Output indicator +V Jxx_Ch3_Out15 Jxx_Ch3_Out15 Jxx_Ch3_Out15 Jxx_Ch3_Out15 Jxx_Ch3_Out15 Jxx_Ch3_Out15 Jxx_Ch4_Out10 Jxx_Ch4_Out10 Jxx_Ch4_Out10 Jxx_Ch4_Out15 Jxx_Ch4_OUt15Jxx_Ch4_OUt15 Jxx_Ch4_OUt15 Jxx_Ch4_OUt15Jxx_Ch4_OUt15 Jxx_Ch4_OUt15Jxx_Ch4_OUt15 Jxx_Ch4_OUt15Jxx_Ch4_OUt15 Jxx_Ch4_OUT15Jxx_Ch4_OUt15 Jxx_Ch4_OUT15Jxx_Ch4_OUT15 Jxx_Ch4_OUT15Jxx_CH4_OUT15Jxx_CH4_OUT15 Jxx_CH4_OUT15Jxx_CH4_OUT15		
	• 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)



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		
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	Signal Allocated name Cloword +V Jxx_Ch1_Out00 Jxx_Ch1_Out00 Jxx_Ch1_Out05 Wd m COM0 tyx_Ch2_Out15 Wd m+1 Jxx_Ch2_Out15 Wd m+2 COM1 +V Jxx_Ch3_Out00 Jxx_Ch3_Out05 Wd m+2 COM2 +V Jxx_Ch4_Out00 Jxx_Ch4_Out05 Wd m+3 CN2 +V HW m+3 CN3 +V HW MW M +V HW MW M HW MW M HW MW M HW MW M HW M	





CJ1W-OD202 Transistor Output Unit (8 Points)

CJ1W-OD202

8-point Transistor Output Unit with Terminal Block (Sourcing Outputs)

Name

Model

* Terminal numbers 40 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-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 msmax.		
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.		
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	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	 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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

* 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-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 /oltage 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.		
eakage Current	1.5 V max.		
ON Response Time	0.5 ms max.		
OFF Response Time	1.0 msmax.		
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.		
nsulation 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	16 (16 points/common, 1 circuit)		
nternal 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	 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 Connector Signal name pin - 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 M $_{\Omega}$ 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	 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. 		



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 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	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	 Signal Allocated Clo word COM0 Jxx. Ch1_Out00 Jxx. Ch1_Out15 Wd m VCOM1 Uxx. Ch2_Out00 Jxx. Ch3_Out00 Jxx. Ch3_Out15 Wd m+1 CN1 (OUT) COM2 Jxx. Ch3_Out15 Wd m+2 Jxx. Ch3_Out15 Wd m+3 CN2 (OUT) COM3 Jxx. Ch4_Out100 Jxx. Ch4_Out100 Jxx. Ch4_Out100 Wd m+2 Jxx. Ch4_Out100 Jxx. Ch4_Out15 Wd m+3 VW m+3 CN2 (OUT) 		



Bit Allocations for Output Unit

8-point Output Unit

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

16-point Output Unit

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

64-point Output Unit

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

32-point Output Unit

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

External Interface





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.



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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.



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
в	Connector-Terminal Block Conversion Unit XW2R
С	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.



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

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	10		
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



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								
						XW2R-J34G-C3	Phillips screw								
CJ1W-OD231	32 outputs	1 Fujitsu connector	NPN	А	XW2Z-@@@PF	XW2R-E34G-C3	Slotted screw (rise up)	No							
		Connector				XW2R-P34G-C3	Push-in spring]							
						XW2R-J34G-C4	Phillips screw								
CJ1W-OD232	32 outputs	1 MIL connector	PNP	A	XW2Z-@@@PM	XW2R-E34G-C4	Slotted screw (rise up)	No							
		Connoctor				XW2R-P34G-C4	Push-in spring]							
						XW2R-J34G-C4	Phillips screw								
CJ1W-OD233	32 outputs	outs 1 MIL connector	NPN	A	XW2Z-@@@PM	XW2R-E34G-C4	Slotted screw (rise up)	No							
						XW2R-P34G-C4	Push-in spring]							
		uts 1 MIL connector									XW2R-J34G-C4	Phillips screw			
CJ1W-OD234	32 outputs		NPN	A	XW2Z-@@@PM	XW2R-E34G-C4	Slotted screw (rise up)	No							
	Connector					XW2R-P34G-C4	Push-in spring								
								XW2R-J34G-C3 (2 Units)	Phillips screw						
CJ1W-OD261	64 outputs	outputs 2 Fujitsu connectors	NPN	В	XW2Z-@@@PF (2 pcs)	XW2R-E34G-C3 (2 Units)	Slotted screw (rise up)	No							
	connectors		Connectors	Connect		connectors	connectors			(2 000)	XW2R-P34G-C3 (2 Units)	Push-in spring			
						XW2R-J34G-C4 (2 Units)	Phillips screw								
CJ1W-OD262 64 outputs	4 outputs 2 MIL connectors P	PNP	в	XW2Z-@@@PM (2 pcs)	XW2R-E34G-C4 (2 Units)	Slotted screw (rise up)	No								
			00111601013	00111001013	00111001013	00111001013	00111001013	00111001013	00111001010	00111001010	00111001013			(z pcs)	XW2R-P34G-C4 (2 Units)
						XW2R-J34G-C4 (2 Units)	Phillips screw								
CJ1W-OD263	64 outputs	2 MIL connectors		в	XW2Z-@@@PM (2 pcs)	XW2R-E34G-C4 (2 Units)	Slotted screw (rise up)	No							
		00111001013				XW2R-P34G-C4 (2 Units)	Push-in spring	1							

* 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



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

	I/O Un	its		Connection	Connecting C	ables	I/O Relay Terminals						
Model	I/O capacity	External connectors	Polarity	pattern	Model *1	Quantity required	Model	I/O points	Quantity required				
							G70V-SOC16P(-C4)	16		Push-in spring			
							G7TC-OC16	16					
	00	1 Fujitsu	Sinking				G70D-SOC/FOM16	16	2				
CJ1W-OD231	32 outputs	connector (40 p)	(NPN)	A	XW2Z-RO@C-@	1	G70D-VSOC16/VFOM16	16		Screw terminal			
		(40 p)					G70A-ZOC16-3 *3	16					
							G70R-SOC08 *2	8	1				
		1 MIL	<u> </u>		XW2Z-RO@-@-D1	1	G70A-ZOC16-4 *3	16					
CJ1W-OD232	32 outputs	connector	Sourcing (PNP)	A	AWZZ-RO@-@-DT		G70D-SOC/FOM16-1	16	2	Screw terminal			
		(40 p)			XW2Z-RI@-@-D1	1	G7TC-OC16-1	16					
							G70V-SOC16P(-C4)	16		Push-in spring			
							G7TC-OC16	16					
	22 outpute	1 MIL	Sinking			1	G70D-SOC/FOM16	16	1,				
CJ1W-OD233	32 outputs	connector			connector (40 p)	(NPN)	A	XW2Z-RO@-@-D1	1	G70D-VSOC16/VFOM16	16	2	Screw terminal
		(40 p)					G70A-ZOC16-3 *3	16					
							G70R-SOC08 *2	8					
		1 MIL connector (NPN) A				G70V-SOC16P(-C4)	16		Push-in spring				
			opportor Sinking		XW2Z-RO@C-@	1	G7TC-OC16	16	2	Screw terminal			
	22 outpute						G70D-SOC/FOM16	16					
CJ1W-OD234	32 outputs						G70D-VSOC16/VFOM16	16					
	(40 p)						G70A-ZOC16-3 *3	16					
							G70R-SOC08 *2	8					
							G70V-SOC16P(-C4)	16		Push-in spring			
		2 Fujitsu Sinking	0.5 10					G7TC-OC16	16				
	64 outputo		Sinking		XW2Z-RO@C-@	2	G70D-SOC/FOM16	16		Screw terminal			
CJ1W-OD261	64 outputs	connectors (40 p)	(NPN)				G70D-VSOC16/VFOM16	16	4				
							G70A-ZOC16-3 *3	16					
									G70R-SOC08 *2	8			
							G70V-SOC16P-1(-C4)	16		Push-in spring			
CJ1W-OD262	64 outputo	2 MIL	Sourcing	в	XW2Z-RO@-@-D1	2	G70A-ZOC16-4 *3	16					
	(PNP) (40 p)	(PNP)	P			G70D-SOC/FOM16-1	16	4	Screw terminal				
				XW2Z-RI@-@-D1	2	G7TC-OC16-1	16	1					
						G70V-SOC16P(-C4)	16		Push-in spring				
						2	G7TC-OC16	16	4				
	64 outpute	2 MIL	Sinking		XW2Z-RO@-@-D1		G70D-SOC/FOM16	16		Screw terminal			
CJ1W-OD263	64 outputs	utputs connectors (40 p)	(NPN)	В			G70D-VSOC16/VFOM16	16					
			. ,	1			G70A-ZOC16-3 *3	16	1				
							G70R-SOC08 *2	8	1				

*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.

(Unit: mm)

Dimensions

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-0D231







With MIL Connector (40-pin \times 1) CJ1W-OD232 / OD233 / OD234







64- point Units (Output Units) With Fujitsu-Compatible Connector (40-pin \times 2)

CJ1W-0D261







With MIL Connector (40-pin \times 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: • 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. • 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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