CJ-series Output Units

CJ1W-OC/OA/OD

CSM_CJ1W-OUTPUT_DS_E_8_5

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: 15 μ s, OFF Response Time: 80 μ s
- · 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 imption A)	Model	Standards		
71	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	
	To be the second	-	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
		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	
		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
40-pin Connectors	Soldered	FCN-361J040-AU Connector FCN-360C040-J2 Connector Cove		Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit	C500-CE404	
	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	rimped FCN-363J024 FCN-363J-AU FCN-360C024-J2		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	method	type	Depth (mm)		Width (mm)	DIN Track	Screws				I/O Units	Model *	Standards
			Phillips screw										CJ1W-OD231 CJ1W-OD261	XW2R-J34GD-C3	
		Slotted screw (rise up) M3 (European type) M44.81 98.5		CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-J34GD-C4										
										No	No	No	CJ1W-OD231 CJ1W-OD261	XW2R-E34GD-C3	
PLCs	XW2R		M3 (Eur	(European 5	50	44.81	98.5	Yes	No				CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-E34GD-C4	_
													CJ1W-OD231 CJ1W-OD261	XW2R-P34GD-C3	
				0.4	50 44.81	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.

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 rujusu Connector to One 40-pin Mile Connector	2	XW2Z-200PF
		3	XW2Z-300PF
		5	XW2Z-500PF
KW2Z-□□□PM		0.5	XW2Z-050PM
		1	XW2Z-100PM
	One 40 nin MII. Connector to One 40 nin MII. 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

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

Applicable I/O Relay Terminals

			Specifications						Size (horizontal mounting)			nting	j										
Туре	Series	Classification Polarity Turned Currentat		Height (mm)	DIN Track	Screws	Model	Standards															
				NPN									G70V-SID16P *4										
		Inputs	DC	PNP	16	50 m A							G70V-SID16P-1 *4										
Puch In	G70V Push-In	inputs	inputs	NPN	(SPSTNO × 16)	50 mA							G70V-SID16P-C16 *5										
Plue			PNP			24 VDC	143	00	56	Yes	Yes	G70V-SID16P-1-C16 *5	UC, CE										
terminal	terminal block			NPN			24 VDC	143	90	56	168	168	G70V-SOC16P *4	(TÜV certified)									
DIOCK	HIHR HIHR	Outputs	Outruite	Relay	PNP	10	6 A/point, 10 A/							G70V-SOC16P-1 *4									
	Output		Outputs	outputs	NPN	(SPDT × 16)	common							G70V-SOC16P-C4 *6									
			PNP									G70V-SOC16P-1-C4 *6											
			AC				100/(110) VAC						G7TC-IA16 AC100/110										
			inputs				200/(220) VAC						G7TC-IA16 AC200/220										
G7TC Standard	Inputs	20	NPN	16 (SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12											
	G7TC	гс						DC inputs		(5. 55 × 15)		24 VDC						G7TC-ID16 DC24					
							100/110 VDC						G7TC-ID16 DC100/110										
				8		12 VDC	102	85	68	Yes	No	G7TC-OC08 DC12	U, C										
	annimin.					NPN	(SPSTNO × 8)		24 VDC	102					G7TC-OC08 DC24								
	O		1	Outputs	Relay	NPN	16	5A	12 VDC						G7TC-OC16 DC12								
			outputs		(SPSTNO × 16)	J.	24 VDC	182					G7TC-OC16 DC24										
				PNP	16		12 VDC	102					G7TC-OC16-1 DC12										
				1 111	(SPSTNO × 16)		24 VDC						G7TC-OC16-1 DC24										
High-	G70A *1 (Socket only)	Inputs	Relay inputs	NPN/ PNP	16 (SPDT × 16	100 mA	110 VDC max., 240 VAC max. *2						G70A-ZOC16-5	U, C, CE									
capacity socket		0.4	Relay	NPN	possible with G2R Relays)	10 A (Ter- minal	24 VDC	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)									
	4	Outputs	outputs	PNP		block al- lowable							G70A-ZOC16-4										
	Vertical type G70D-V	out										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-		Outputs		NDN	8 (SPSTNO×8)	5 A	24 VDC	68	93	44			G70D-SOC08										
saving	ALL LAND	,	Relay outputs	NPN	16 (SPSTNO × 16)	3 A							G70D-SOC16										
	The same			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	-									
	c) mmmmm		MOSFET relay	NPN	16	034	-	156	51	39			G70D-FOM16										
19 Tanishakin		1011	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	_									

^{*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.

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

Eujitsu connectors (24 pins) Cables with Connectors (1:1) XW2Z-R□C 16 I/O points A side Device end UO Relay Terminal 1,500 XW2Z-R150C 2,000 XW2Z-R200C 3,000 XW2Z-R300C 3,000 XW2Z-R300C 5,000 XW2Z-R300C 5,000 XW2Z-R300C 4 side Device end UO Relay Terminal UO Relay Terminal UO Relay Terminal (A) 1,500 (B) 1,750 XW2Z-R1100C-75 (A) 1,000 (B) 7,50 XW2Z-R1100C-75 (A) 1,000 (B) 1,750 XW2Z-R1200C-175 (A) 1,000 (B) 1,750 XW2Z-R120C-175 (A) 1,000 (B) 1,250 XW2Z-R120C-175 (A) 1	Туре	Name	I/O Classification	Appearance	Cable leng	gth L (mm)	Models
Eujitsu connectors (24 pins) A side Device end Lo Relay Terminal Lo Relay Term				A side B side	1,0	000	XW2Z-R100C
XW2Z-R□C XW2Z-R300C XW2Z		Cables with Connectors	16 I/O points	Device end I/O Relay Terminal	1,5	500	XW2Z-R150C
Fujitsu connectors (40 pins) Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ XW2Z-RO□C Cables with Connectors (1:2) XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C A side Device end I/O Relay Terminal I/O Re	Fujitsu connectors (24 pins)	(1:1)			2,0	000	XW2Z-R200C
Fujitsu connectors (40 pins) Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ Cables with Connectors (1:1) XW2Z-RI□C C XW2Z-RO□C Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C Cables with Connectors (1:2) A side		XW2Z-R□C			3,0	000	XW2Z-R300C
Fujitsu connectors (40 pins) Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ A side Device end I/O Relay Terminal (A) 1,500 (B) 1,250 (B) 2,750 (A) 3,000 (B) 2,750 (A) 3,000 (B) 4,750 (B) 1,750 (B) 1,750 (B) 1,750 (A) 3,000 (B) 2,750 (A) 3,000 (B) 1,750 (A) 3,000 (B) 2,750 (A) 3,000 (B) 3,750 (A) 3,000 (B) 3,750 (A) 3,000 (B) 3,750 (A) 3,000 (B)				□ ← L →	5,0	000	XW2Z-R500C
Eujitsu connectors (40 pins) Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ XW2Z-RO□C A side Device end VO Relay Terminal (A) 1,500 (B) 1,750 (B) 500 (B) 2,750 (A) 3,000 (B) 4,750 (B) 500 (B) 4,750 (B) 4,75				A sido B sido	(A) 1,000	(B) 750	XW2Z-RI100C-75
Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ 32 output points Cables with Connectors (1:20) XW2Z-RI□C-□ XW2Z-RO□C-□ 32 output points Cables with Connectors (20 pins) Cables with Connectors (1:20) XW2Z-RI□C XW2Z-RO□C Cables with Connectors (1:11) XW2Z-RI□C XW2Z-RI□C XW2Z-RO□C 16 I/O points A side Device end I/O Relay Terminal A side Device end I/O Relay Termi					(A) 1,500	(B) 1,250	XW2Z-RI150C-125
Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RI□C-□ XW2Z-RO□C-□ 32 output points Cables with Connectors (1:20) 32 output points XW2Z-RI□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ XW2Z-RO□C-□ 32 output points Cables with Connectors (1:10) XW2Z-RI□C XW2Z-RO□C Cables with Connectors (1:11) XW2Z-RI□C XW2Z-RO□C 16 I/O points A side Device end I/O Relay Terminal A side Device end I/O Relay Term			32 input points	(A) —	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
Fujitsu connectors (40 pins) XW2Z-RI□C-□ XW2Z-RO□C-□ 32 output points XW2Z-RO□C-□ 32 output points XW2Z-RO□C-□ XW2Z-RO□C-□ 32 output points XW2Z-RO□C-□ 32 output points XW2Z-RO□C-□ XW2Z-RO□C A side Device end I/O Relay Terminal		Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
XW2Z-RI□C-□ XW2Z-RO□C-□ 32 output points 33 output points 34 output points 35 output points 35 output points 36 output points 36 output points 37 output points 37 output points 38 output points 38 output points 39 output points 39 output points 30 output points 3	Fujitsu connectors (40 pins)	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
XW2Z-RO□C-□ 32 output points 32 output points (A) 1,500 (B) 1,250 XW2Z-R0150C-125 (A) 2,000 (B) 1,750 XW2Z-R0200C-175 (A) 3,000 (B) 2,750 XW2Z-R0300C-275 (A) 3,000 (B) 4,750 XW2Z-R0300C-275 (A) 5,000 (B) 4,750 XW2Z-R0500C-475 (Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C (A) 5,000 (B) 4,750 XW2Z-R0300C-275 XW2Z-R0500C-475 (A) 5,000 (B) 4,750 XW2Z-R050C (Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C (A) 500 (B) 250 XW2Z-R050C XW2Z-R050C (A) 750 (B) 500 XW2Z-R050-25-D1 (A) 750 (B) 500 XW2Z-R050-25-D1 (A) 750 (B) 500 XW2Z-R050-25-D1 (A) 750 (B) 750 XW2Z-R0100-75-D1 (A) 1,000 (B) 750 XW2Z-R0150-125-D1		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			(A) 1,000	(B) 750	XW2Z-RO100C-75
A side Device end B s				(120)	(A) 1,500	(B) 1,250	XW2Z-RO150C-125
MIL connectors (20 pins) Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C A side Device end I/O Relay Terminal (A) 3,000 (B) 2,750 XW2Z-RO300C-475 XW2Z-RO50C-475 XW2Z-RI□C XW2Z-RO50C XW2Z-RO50C (A) 500 (B) 250 XW2Z-RO50-25-D1 (A) 750 (B) 500 XW2Z-RO50-25-D1 (A) 750 (B) 500 XW2Z-RO50-25-D1 (A) 1,000 (B) 750 XW2Z-RO100-75-D1 (A) 1,000 (B) 750 XW2Z-RO100-75-D1 (A) 1,500 (B) 1,250 XW2Z-RO150-125-D1		XW2Z-ROLIC-LI	32 output pointe		. , .	. , .	
MIL connectors (20 pins) Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C A side Device end I/O Relay Terminal			oz output points	(B) -	. , .	. , .	XW2Z-RO300C-275
MIL connectors (20 pins) XW2Z-RI□C XW2Z-RO□C 16 I/O points 16 I/O po				Straight length (without bends)	(A) 5,000	(B) 4,750	XW2Z-RO500C-475
MIL connectors (20 pins) XW2Z-RI□C XW2Z-RO□C (A) 500 (B) 250 XW2Z-RO□C-25-D1 (A) 750 (B) 500 XW2Z-RO□C-50-D1 (A) 1,000 (B) 750 XW2Z-RO□C-75-D1 (A) 1,000 (B) 1,250 XW2Z-RO□C-75-D1 (A) 1,500 (B) 1,250 XW2Z-RO□C-125-D1		Cables with Connectors	16 I/O points		25	50	XW2Z-RI25C
XW2Z-RI□C XW2Z-RO□C 250 XW2Z-R050C 500 XW2Z-R050C (A) 500 (B) 250 XW2Z-R050-25-D1 (A) 750 (B) 500 XW2Z-R050-25-D1 (A) 750 (B) 500 XW2Z-R075-50-D1 (A) 1,000 (B) 750 XW2Z-R0100-75-D1 (A) 1,000 (B) 750 XW2Z-R0100-75-D1 (A) 1,500 (B) 1,250 XW2Z-R0150-125-D1	MII (00 mins)			Device end I/O Relay Terminal	50	00	XW2Z-RI50C
A side Device end VO Relay Terminal (A) 1,500 (B) 1,250 XW2Z-RO50C (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	WIL connectors (20 pins)				25	50	XW2Z-RO25C
A side Device end		XW2Z-RO□C			500		XW2Z-RO50C
A side Device end					(A) 500	(B) 250	XW2Z-RO50-25-D1
A SIGE				1	(A) 750	(B) 500	XW2Z-RO75-50-D1
Device end I/O Relay Terminal (A) 1,500 (B) 1,250 XW2Z-RO150-125-D1				A side P side	(A) 1,000	(B) 750	XW2Z-RO100-75-D1
					(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1
(A)				(A) ———	(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
Cables with Connectors (A) 3,000 (B) 2,750 XW2Z-RO300-275-D1		Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
(1:2) (A) 5,000 (B) 4,750 XW2Z-RO500-475-D1		(1:2)			(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
MIL connectors (40 pins) XW2Z-RO□-□-D1, 32 I/O points (A) 500 (B) 250 XW2Z-RI50-25-D1	MIL connectors (40 pins)	VW27 BOD D D1	32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
XW2Z-RICID1 (120) (A) 750 (B) 500 XW2Z-RI75-50-D1				(120)	(A) 750	(B) 500	XW2Z-RI75-50-D1
(A) 1,000 (B) 750 XW2Z-RI100-75-D1					` '	` '	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				` '	. , .	. , .	
(A) 3,000 (B) 2,750 XW2Z-RI300-275-D1					. , .	, , .	
(A) 5,000 (B) 4,750 XW2Z-RI500-475-D1							

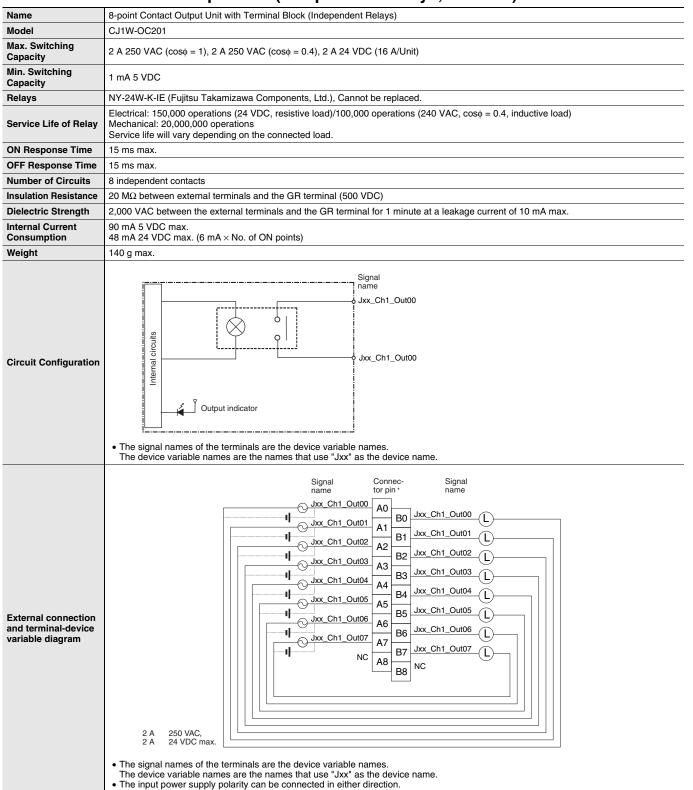
Note: Refer to the Datasheet for the XW2Z-R Cables for I/O Relay Terminals (Cat. No. G126).

Mountable Racks

	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 Backplane)	Not Supported	Not Supported	(Per Expansion Backplane)
CJ1W-OD234		Rack)					
CJ1W-OD261							
CJ1W-OD263							
CJ1W-OD202							
CJ1W-OD204							1
CJ1W-OD212							
CJ1W-OD232							
CJ1W-OD262							

Specifications

CJ1W-OC201 Contact Output Unit (Independent Relays, 8 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

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)

2 A 250 VAC, 2 A 24 VDC max.

Name	16-point Contact Output Unit with Terminal Block									
Model	CJ1W-OC211									
Max. Switching Capacity	2 A 250 VAC (cosφ = 1), 2 A 250 VAC (cosφ = 0.4), 2 A 24 VDC (8 A/Unit)									
Min. Switching Capacity	1 mA 5 VDC									
Relays	Y-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									
nsulation Resistance	20 M Ω 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 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									

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.

В8 СОМ

^{*} 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) 8-point Triac Output Unit with Terminal Block Name Model CJ1W-OA201 Max. Switching 0.6 A 250 VAC, 50/60 Hz (2.4 A/Unit) Capacity 15 A (pulse width: 10 ms max.) Max. Inrush Current Min. Switching 50 mA 75 VAC Capacity 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 5 A (1/common, 1 used) **Fuses** The fuse cannot be replaced by the user. Insulation Resistance 20 $M\Omega$ 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 Weight 150 g max. circuits Jxx_Ch1_Out00 OJXX_Ch1_Out07 **Circuit Configuration** Internal 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 Connector pin * Signal name NC Α0 Jxx_Ch1_Out00 B0 NC Jxx_Ch1_Out01 **B1** NC Α2 Jxx_Ch1_Out02 R2 NC А3 Jxx Ch1 Out03 ВЗ **External connection** NC 250 VAC max. and terminal-device Α4 Jxx_Ch1_Out04 variable diagram B4 NC Α5 Jxx_Ch1_Out05 B5 NC A6 Jxx_Ch1_Out06 NC Α7 Jxx_Ch1_Out07 В7 NC Α8 СОМ

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

• 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.

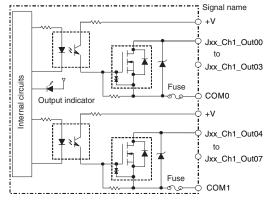
B8

^{*} 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-OD201 Transistor Output Unit (8 Points)

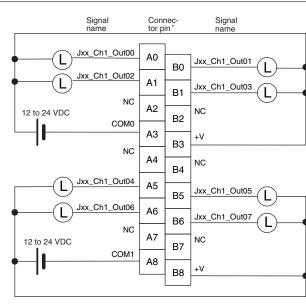
Name	8-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD201
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	2.0 A/point, 8.0 A/Unit
Maximum Inrush Current	10 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 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 (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



• 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.
 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.

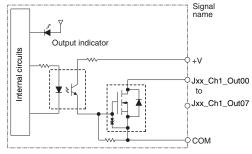
Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

^{*} 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

CJ1W-OD203 Transistor Output Unit (8 Points)

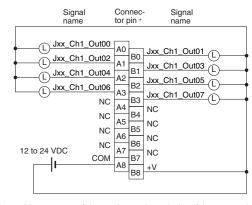
Name	8-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD203
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 4.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.1 ms max.
OFF Response Time	0.8 ms max.
Insulation Resistance	20 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	100 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 20 mA min.
Weight	110 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.
- 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.

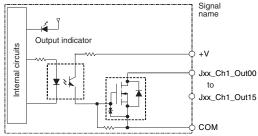
Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

^{*} 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-OD211 Transistor Output Unit (16 Points)

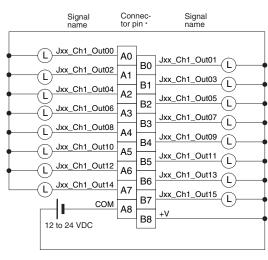
Name	16-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD211
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 5.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	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.
	Sinnal

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.

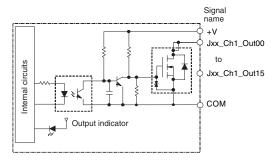
The signal names of the terminals are the device variable names.
 The device variable names are the names that use "Jxx" as the device name.

^{*} 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-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 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)
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.

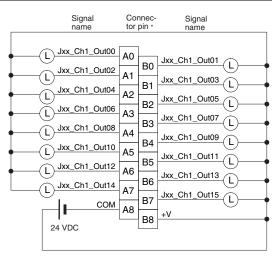
Circuit Configuration



• 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



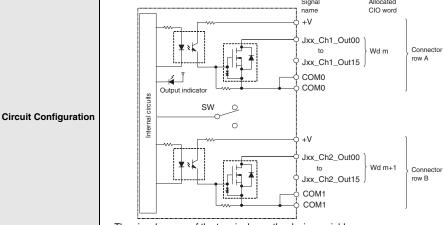
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- The signal names of the terminals are the device variable names.

 The device variable names are the names that use "Jxx" as the device name.

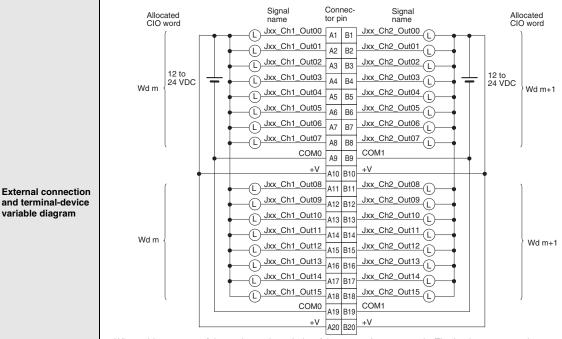
^{*} Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-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 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	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
	Signal Allocated



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 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 pages of the terminals are the device variable pages.

- The signal names of the terminals are the device variable names.

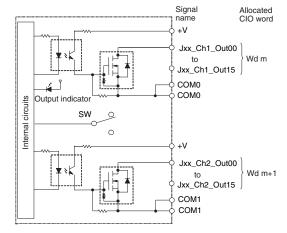
The device variable names are the names that use "Jxx" as the device name

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

External connection and terminal-device variable diagram



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	Connector pin	Signal name	Allocated CIO word
12 to 24 VC	DC +V COM1	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	+V COM1 Jxx_Ch2_Out07 Jxx_Ch2_Out06 L Jxx_Ch2_Out05 Jxx_Ch2_Out04 Jxx_Ch2_Out03 L Jxx_Ch2_Out03 L Jxx_Ch2_Out01 L Jxx_Ch2_Out01 L L L+V	Wd m+1
12 to 24 VDC	COMC	23 24 25 26 27 28 29 30 2 31 32 33 34 2 35 36 37 38	COM0 Jxx_Ch1_Out07 Jxx_Ch1_Out06 Jxx_Ch1_Out05 Jxx_Ch1_Out04 Jxx_Ch1_Out03 Jxx_Ch1_Out02 Jxx_Ch1_Out01 Jxx_Ch1_Out01 L Jxx_Ch1_Out01	M bW

- 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.

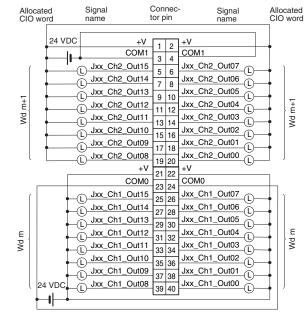
CJ1W-OD234 Transistor Output Unit (32 Points)

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 μs max.
OFF Response Time	80 μs 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.

Signal name

CIO word Jxx_Ch1_Out00 Wd m Jxx_Ch1_Out15 COMO 5 сомо Internal circuits **Circuit Configuration** SW Jxx_Ch2_Out00 to Wd m+1 Jxx_Ch2_Out15 COM1 COM₁

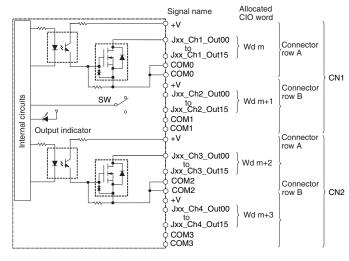
• The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.



- **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)

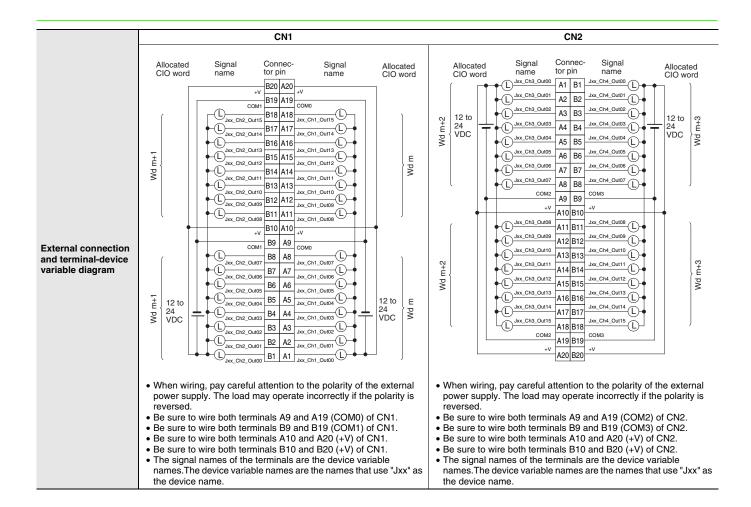
Name	64-point Transistor Output Unit with Fujitsu Connectors (Sinking Outputs)
Model	CJ1W-OD261
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit
Maximum Inrush Current	3.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 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



The signal names of the terminals are the device variable names.

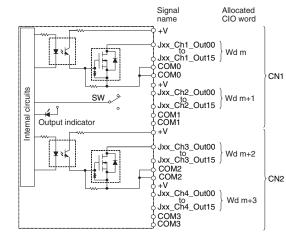
The device variable names are the names that use "Jxx" as the device name.

Circuit Configuration



CJ1W-OD263 Transistor Output Unit (64 Points)

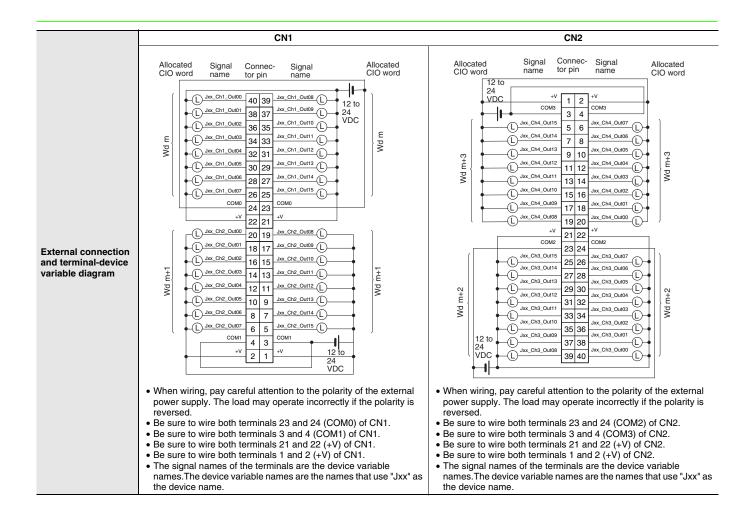
Name	64-point Transistor Output Unit with MIL Connectors (Sinking Outputs)
Model	CJ1W-OD263
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit
Maximum Inrush Current	3.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 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.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 50 mA min.
Weight	110 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.



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	Detection current: 6 A min.
Protection	Automatic restart after error clearance.
Line Disconnection Detection	Detection current: 200 mA
Insulation Resistance	$20 \text{ M}\Omega$ 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	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.

Signal name Jxx_Ch1_Out00 to Jxx_Ch1_Out03 Internal circuits Output indicator COM1 (+V) **Circuit Configuration** Jxx_Ch1_Out04 Jxx_Ch1_Out07

- 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.

	Signa name	Cor tor	nec- oin*	Signal name	
External connection and terminal-device	Jxx_Ch1_0	NC A2 0 V A3 NC A4	B0 B1 B2 B3 B4	Jxx_Ch1_Out01 Jxx_Ch1_Out03 NC COM0 (+V) NC	L 24 VDC
ariable diagram		A5	B5	Jxx_Ch1_Out05 Jxx_Ch1_Out07	Ĺ
		NC A7	B6 B7	NC	L
		A8	B8	COM1 (+V)	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.

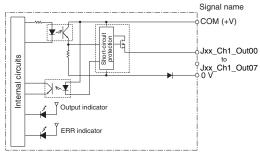
Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

^{*} 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

CJ1W-OD204 Transistor Output Unit (8 Points)

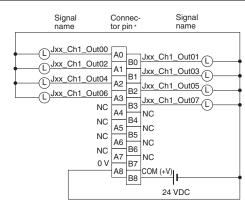
Name	8-point Transistor Output Unit with Terminal Block (Sourcing Outputs)
Model	CJ1W-OD204
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 4.0 A/Unit
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response 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 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.
	Circulature

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



- 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.

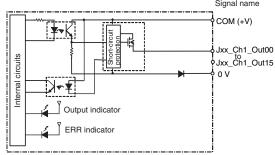
Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

^{*} 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 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.
	Signal name

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

Connector pin * Signal Signal Jxx Ch1 Out00 Α0 Jxx_Ch1_Out01 В0 В1 Α2 Jxx_Ch1_Out05 B2 Jxx_Ch1_Out07 ВЗ Jxx_Ch1_Out08 **External connection** Jxx_Ch1_Out09 В4 and terminal-device variable diagram Jxx Ch1 Out11 B5 (L) Jxx Ch1 Out12 Jxx_Ch1_Out13 L Jxx_Ch1_Out14 B6 Jxx_Ch1_Out15 B7 Α8 COM (+V) B8 24 VDC

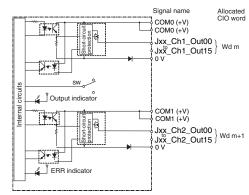
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
 The signal names of the terminals are the device variable names.

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.

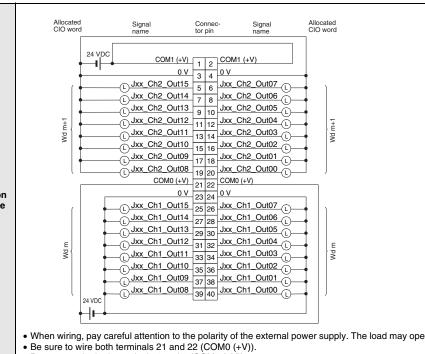
CJ1W-OD232 Transistor Output Unit (32 Points)

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 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	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

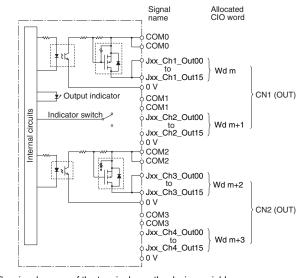
- When overcurrent is detected, the ERR indicator will light, and the corresponding bit (bit allocated for each common) in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE.
 The signal names of the terminals are the device variable names.
- The device variable names are the names that use "Jxx" as the device name.



- **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 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.

CJ1W-OD262 Transistor Output Unit (64 Points)

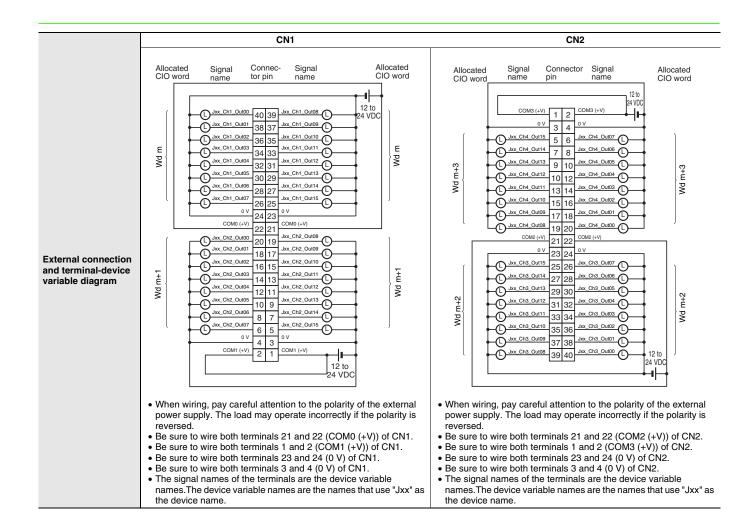
Name	64-point Transistor Output Unit with MIL Connectors (Sourcing Outputs)
Model	CJ1W-OD262
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit
Maximum Inrush Current	3.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual 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

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	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	-

32-point Output Unit

Allocated CIO word		Signal name (CJ/NJ)	
CIO	Bit	Signal fiame (CO/NO)	
	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	

16-point Output Unit

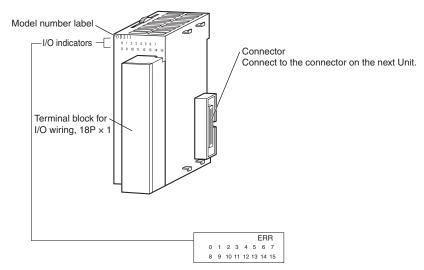
Allocated	Signal name (C I/N I)	
CIO	Bit	Signal name (CJ/NJ)
	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
Wd m (Output)	:	:
(Output)	14	OUT14/Jxx_Ch1_Out14
	15	OUT15/Jxx_Ch1_Out15

64-point Output Unit

Allocated	Allocated CIO word	
CIO	Bit	Signal name (CJ/NJ)
	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
Wd m (Output)	:	:
(Calpai)	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)	:	:
(Galpai)	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

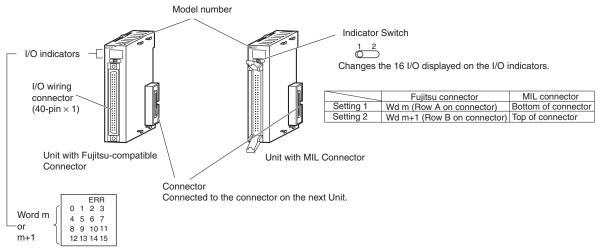
External Interface

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



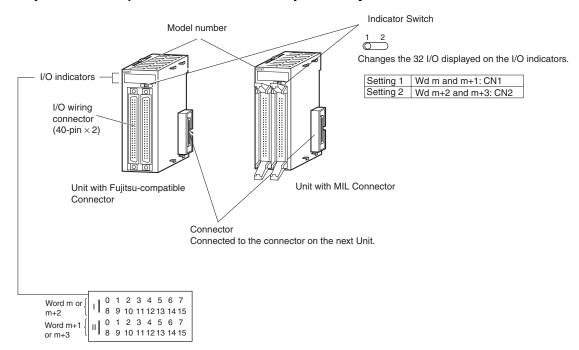
Note: The CJ1W-OD202, CJ1W-OD204, and CJ1W-OD212 also have an ERR indicator for the load short-circuit alarm.

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.

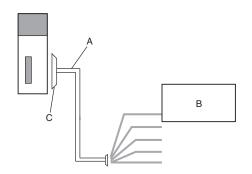


I/O Unit Wiring Methods

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.

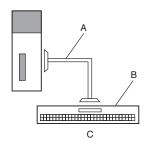


Α	User-provided cable
В	External device
С	Connector

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.

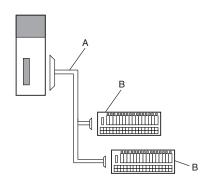


A	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2R
С	Conversion to a screw terminal block

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.



Α	Connecting Cable for I/O Relay Terminals XW2Z-R
В	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	40
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.

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)

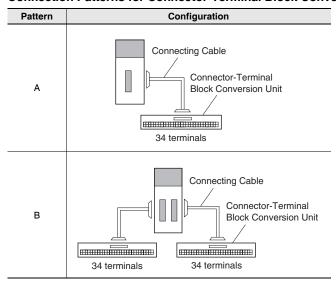
Product Name	Model		
Manual Crimping Tool	XY2B-7007		

^{*2.} 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.

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

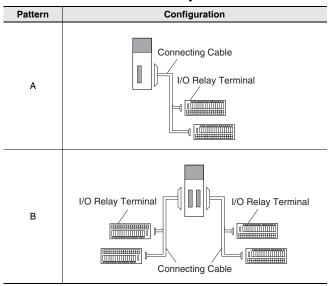
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals	
						XW2R-J34G-C3	Phillips screw		
CJ1W-OD231	32 outputs	1 Fujitsu connector	NPN	Α	XW2Z-□□□PF	XW2R-E34G-C3	Slotted screw (rise up)	No	
		CONTICCTO				XW2R-P34G-C3	Push-in spring		
					XW2Z-□□PM	XW2R-J34G-C4	Phillips screw	No	
CJ1W-OD232	32 outputs	1 MIL connector	PNP	Α		XW2R-E34G-C4	Slotted screw (rise up)		
		COMMODICA				XW2R-P34G-C4	Push-in spring		
				А		XW2R-J34G-C4	Phillips screw	No	
CJ1W-OD233	CJ1W-OD233 32 outputs	ts 1 MIL connector	NPN		XW2Z-□□□PM	XW2R-E34G-C4	Slotted screw (rise up)		
						XW2R-P34G-C4	Push-in spring		
						XW2R-J34G-C4	Phillips screw		
CJ1W-OD234 32 outputs	1 MIL connector	NPN	A	XW2Z-□□□PM	XW2R-E34G-C4	Slotted screw (rise up)	No		
					XW2R-P34G-C4	Push-in spring			
				N B	XW2Z-□□□PF (2 pcs)	XW2R-J34G-C3 (2 Units)	Phillips screw	No	
CJ1W-OD261	CJ1W-OD261 64 outputs	2 Fujitsu connectors	NPN			XW2R-E34G-C3 (2 Units)	Slotted screw (rise up)		
	Connectors			(2 pos)	XW2R-P34G-C3 (2 Units)	Push-in spring			
						XW2R-J34G-C4 (2 Units)	Phillips screw		
CJ1W-OD262 64 outputs	ts 2 MIL connectors	PNP	В	XW2Z-□□□PM (2 pcs)	XW2R-E34G-C4 (2 Units)	Slotted screw (rise up)	No		
					XW2R-P34G-C4 (2 Units)	Push-in spring			
			tors NPN	В	XW2Z-□□PM (2 pcs)	XW2R-J34G-C4 (2 Units)	Phillips screw		
CJ1W-OD263	64 outputs	outputs 2 MIL connectors				XW2R-E34G-C4 (2 Units)	Slotted screw (rise up)	No	
	001111001013			(E pos)	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



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

I/O Units			Connection	Connecting Cables		I/O Relay Terminals				
Model	I/O capacity	External connectors	Polarity	pattern	Model *1	Quantity required	Model	I/O points	Quantity required	Wiring method
							G70V-SOC16P(-C4)	16		Push-in spring
ļ.	4 =				j	G7TC-OC16	16			
CJ1W-OD231	32 outputs	1 Fujitsu connector	Sinking (NPN)	A	XW2Z-RO□C-□	1	G70D-SOC/FOM16	16	2	
001W-0D201	52 Outputs	(40 p)					G70D-VSOC16/VFOM16	16		Screw terminal
		(- 1-)					G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		
		4 MII					G70V-SOC16P-1(-C4)	16	2	Push-in spring
CJ1W-OD232	32 outputs	1 MIL connector	Sourcing	Α	XW2Z-RO□-□-D1	1	G70A-ZOC16-4 *3	16		
OUTW OBZOZ	oz outputs	(40 p)	(PNP)				G70D-SOC/FOM16-1	16	_	Screw terminal
		(- 1-)			XW2Z-RI□-□-D1	1	G7TC-OC16-1	16	1	
							G70V-SOC16P(-C4)	16		Push-in spring
		4 840					G7TC-OC16	16	2	Screw terminal
CJ1W-OD233	32 outputs	1 MIL connector	Sinking	Α	XW2Z-RO□-□-D1	1	G70D-SOC/FOM16	16		
C31VV-OD233	32 Outputs	(40 p)	(NPN)	^	XVV2Z-NOU-U-D1	'	G70D-VSOC16/VFOM16	16		
		(.σρ)					G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		
					XW2Z-RO□C-□		G70V-SOC16P(-C4)	16		Push-in spring
		1 MIL	Sinking	A		1	G7TC-OC16	16	2	
C HW ODGG	20 outputo						G70D-SOC/FOM16	16		
CJ1W-OD234 32 outputs	connector (40 p)	(NPN)	A	XWZZ-ROUC-U	1	G70D-VSOC16/VFOM16	16		Screw terminal	
		(40 β)					G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		
		2 Fujitsu connectors (40 p)			XW2Z-RO□C-□	2	G70V-SOC16P(-C4)	16		Push-in spring
							G7TC-OC16	16	4	Screw terminal
CJ1W-OD261	64 outputs		Sinking	В			G70D-SOC/FOM16	16		
C31VV-OD201	64 outputs		(NPN)	В			G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		
-		2 MIL S					G70V-SOC16P-1(-C4)	16	4	Push-in spring
C HW ODGG	64 outputs		Sourcing	Б	XW2Z-RO□-□-D1	2	G70A-ZOC16-4 *3	16		
CJ1W-OD262 64 outputs	connectors (40 p)		В			G70D-SOC/FOM16-1	16	4	Screw terminal	
				XW2Z-RI□-□-D1	2	G7TC-OC16-1	16			
			onnectors Sinking				G70V-SOC16P(-C4)	16		Push-in spring
CJ1W-OD263 64 outputs		2 MIL connectors (40 p)			XW2Z-RO□-□-D1	2	G7TC-OC16	16	4	Screw terminal
	04						G70D-SOC/FOM16	16		
	64 outputs						G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *3	16		
							G70R-SOC08 *2	8		

^{*1.} The box \square is replaced by the cable length.

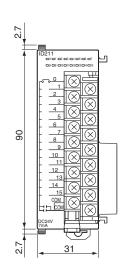
^{*2.} In addition to the G70R-SOC08, 8-point output G7TC-OC08 and G70D-SOC08 models are available.
*3. The G70A-ZOC16-3/4 has I/O terminal sockets. Mounted relays are sold separately. In addition, an G70A-ZOC16-3/4 will be SPDT × 16 points with G2R relays.

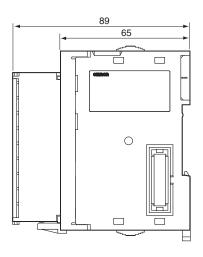
Dimensions (Unit: mm)

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

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



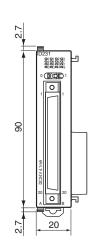


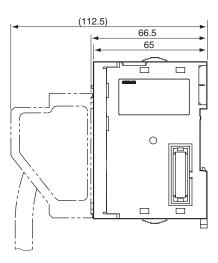


32-point Unit (Output Units)

With Fujitsu-Compatible Connector (40-pin \times 1) CJ1W-OD231

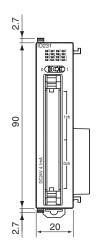


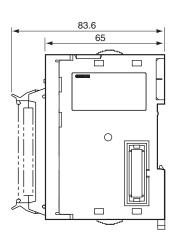




With MIL Connector (40-pin \times 1) CJ1W-OD232 / OD233 / OD234



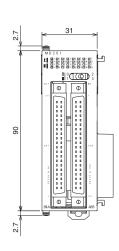


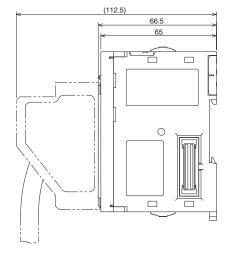


64-point Units (Output Units)

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

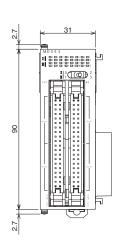


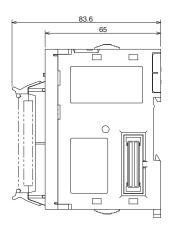




With MIL Connector (40-pin \times 2) CJ1W-OD262 / OD263







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 Software User's Manual (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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