CJ1W-OC/OA/OD

CSM CJ1W-OUTPUT DS E 8 14

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 / OTAX 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	Current consumption (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	
	The second secon	-	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* CJ1W-OA201-1	UC1, N, L, CE
	Transistor Output Units	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	ı	CJ1W-OD211	
CJ1 Basic		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
I/O Units		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Fujitsu / OTAX 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	OL
		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 / OTAX 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	

^{*} CJ1W-OA201 is not UC1 cULus (Class I Division 2 hazardous location certification). If cULus (Class I Div 2 hazardous location certification) is required, use CJ1W-OA201-1.

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 / OTAX 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
	Soldered	Connector Connector Cover	Fujitsu FCN-361J040-AU Fujitsu FCN-360C040-J2 OTAX N360C040J2	Fujitsu / OTAX Connectors:	C500-CE404	
40-pin Connectors	Crimped	Housing Contactor Connector Cover	Fujitsu FCN-363J040 OTAX N363J040 Fujitsu FCN-363J-AU OTAX N363JAU Fujitsu FCN-360C040-J2 OTAX N360C040J2	CJ1W-ID231(32 inputs): 1 per Unit CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE405	_
	Pressure welded	Fujitsu FCN-367J	040-AU/F		C500-CE403	
24-pin	Soldered	Connector Connector Cover	Fujitsu FCN-361J024-AU Fujitsu FCN-360C024-J2 OTAX N360C024J2	Fujitsu / OTAX Connectors: - CJ1W-MD231 (16 inputs. 16 outputs): 2 per Unit	C500-CE241	
Connectors	Pressure welded	Fujitsu FCN-367J OTAX N367J024/		- C3TW-WD23T (TO Inputs, To outputs). 2 per Offic	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 Connectors	Pressure welded	FRC5-AO40-3TOS	MIL Connectors: CJ1W-ID232/233 (32 inputs): 1 per Unit CJ1W-OD232/233/234 (32 outputs):1 per Unit	XG4M-4030-T		
	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*	1 -	

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

Applicable Connector-Terminal Block Conversion Units

		Number of	Number of	Wiring	Terminal		Size			nting	Common			
Туре	Series	connector poles	terminal block poles	method	type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws	terminals	I/O Units	Model*	Standards
				Push-In Plus								CJ1W-OD231 CJ1W-OD261	XW2K-40G-O32B	
		36		Spring	75	39	40.8			No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2K-40G-O32C		
			Push-In Plus								CJ1W-OD231 CJ1W-OD261	XW2K-40G-O32B-OUT		
PLCs		68	T dSH-HT ldS	Spring	124	39	40.8	Yes		Yes	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2K-40G-O32C-OUT		
1 203				Phillips screw				165			CJ1W-OD231 CJ1W-OD261	XW2R-J34GD-C3		
	XW2R		34		M3	130.7	50	48.05			No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD264 CJ1W-OD262 CJ1W-OD263	XW2R-J34GD-C4	
				Slotted screw (rise up)								CJ1W-OD231 CJ1W-OD261	XW2R-E34GD-C3	
			34	(lise up)	M3 (European type)	98.5	50	44.81			No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-E34GD-C4	

Note: For the combination of I/O Units with Connector-Terminal Block Conversion Units, refer to 2. Connecting Connector-Terminal Block Conversion Units. * Representative models only. For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R Datasheet.

Connecting Cables for Connector-Terminal Block Conversion Units

Appearance	Connectors	Cable lenght [m]	Model
XW2Z-□□□B		0.5	XW2Z-050B
		1	XW2Z-100B
	One 40-pin FCN Connector to One 40-pin MIL Connector	1.5	XW2Z-150B
	One 40-pin FCN Connector to One 40-pin Mile Connector	2	XW2Z-200B
		3	XW2Z-300B
		5	XW2Z-500B
KW2Z-□□□K		0.5	XW2Z-C50K
		1	XW2Z-100K
	One 40 nin MII. Connector to One 40 nin MII. Connector	1.5	XW2Z-150K
	One 40-pin MIL Connector to One 40-pin MIL Connector	2	XW2Z-200K
		3	XW2Z-300K
		5	XW2Z-500K

Applicable I/O Relay Terminals

				Specifications			Size (horizontal mounting) Mou			Mou	nting								
Туре	Series	Classification Pola		Polarity	Polarity Number Cu		Rated ON currentat contacts Rated voltage		Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standards					
				NPN									G70V-SID16P *4						
		Innute	DC	PNP	16	50 A							G70V-SID16P-1 *4						
Push-In Plus	Inputs	inputs	NPN	(SPSTNO × 16)	50 mA							G70V-SID16P-C16 *5							
			PNP			041/00	440	00	50	V	V	G70V-SID16P-1-C16 *5	UC, CE (TÜV						
terminal					NPN			24 VDC	143	90	56	Yes	Yes	G70V-SOC16P *4	certified)				
block	COMMENT APPROPRIEST	Outputs	Relay	PNP	16	6 A/point,							G70V-SOC16P-1 *4	certified)					
		Outputs	outputs	NPN	(SPDT × 16)	10 A/ 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						
		Inputs		NPN	16 (SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12						
G7TC Standard		DC inputs		(01 01110 × 10)		24 VDC				Yes		G7TC-ID16 DC24	U, C						
		mpato				100/110 VDC						G7TC-ID16 DC100/110							
	Outputs			8		12 VDC	102	85	68		No	G7TC-OC08 DC12							
			NIDNI	(SPSTNO × 8)		24 VDC	102					G7TC-OC08 DC24							
		Outnute	Outnute	Outputo	Relay	NPN	16	5 A	12 VDC						G7TC-OC16 DC12				
		Outputs	outputs		(SPSTNO × 16)	5A	24 VDC	182					G7TC-OC16 DC24						
				DND	16		12 VDC					G7TC-OC16-1 DC12							
				PNP	(SPSTNO × 16)		24 VDC						G7TC-OC16-1 DC24						
High-	G70A *1 (Socket only)		Relay inputs	NPN/ PNP	16 (SPDT × 16	100 mA	110 VDC max., 240 VAC max. *2						G70A-ZOC16-5	U, C, CE					
capacity socket	16		Outputs	Outputs	Outnuts	Outnuts	Outnuts	Relay	NPN	possible with G2R Relays)	10 A (Ter- minal	24 VDC	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)
	- 1		outputs	PNP		block al- lowable	Z4 VDC	750					G70A-ZOC16-4						
	Vertical type G70D-V		Relay outputs			5 A or 3 A *3							G70D-VSOC16	U, C, CE (VDE certified)					
			MOSFET relay outputs	NPN	16 (SPSTNO × 16)	0.3 A		135	46	81	Yes	Yes	G70D-VFOM16						
Space-	Flat type G70D	Outputs		NPN	8 (SPSTNO×8)	5 A	24 VDC	68	93	44			G70D-SOC08						
saving	HAMA		Relay outputs	INPIN	16 (SPSTNO × 16)	3 A							G70D-SOC16						
The same of	The state of the s			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	_					
	A		MOSFET	NPN	16								G70D-FOM16						
	Muuntul		relay outputs	PNP	(SPSTNO × 16)	0.3 A							G70D-FOM16-1 *7						
High- capacity, space- saving	G70R	Outputs	Relay outputs	NPN	8 (SPSTNO×8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08 *7	-					

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

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

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

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

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

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

^{*7.} Product no longer available to order.

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

^{2.} Please refer to each Datasheet about details.

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

Cables for I/O Relay Terminals

Туре	Name	I/O Classification	Appearance	Cable leng	jth L (mm)	Models
			A side B side	1,0	00	XW2Z-R100C
	Cables with Connectors		Device end I/O Relay Terminal	1,5	00	XW2Z-R150C
Fujitsu/OTAX connectors (24 pins)	(1:1)	16 I/O points		2,0	00	XW2Z-R200C
	XW2Z-R□C			3,0	00	XW2Z-R300C
				5,0	00	XW2Z-R500C
			A side B side	(A) 1,000	(B) 750	XW2Z-RI100C-75
			Device end I/O Relay Terminal	(A) 1,500	(B) 1,250	XW2Z-RI150C-125
		32 input points	(A) →	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
Fujitsu/OTAX	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
connectors (40 pins)	VIMOZ DIEGO E			(A) 1,000	(B) 750	XW2Z-RO100C-75
, , ,	XW2Z-RI□C-□ XW2Z-RO□C-□		(120)	(A) 1,500	(B) 1,250	XW2Z-RO150C-125
	XW22-110-10-11	32 output points		(A) 2,000	(B) 1,750	XW2Z-RO200C-175
			(B)	(A) 3,000	(B) 2,750	XW2Z-RO300C-275
			Straight length (without bends)	(A) 5,000	(B) 4,750	XW2Z-RO500C-475
	Cables with Connectors		A side B side	25	50	XW2Z-RI25C
MII (20)	(1:1)	16 I/O points	Device end I/O Relay Terminal	50	00	XW2Z-RI50C
MIL connectors (20 pins)	XW2Z-RI□C			25	50	XW2Z-RO25C
	XW2Z-RO□C		L	50	00	XW2Z-RO50C
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-RO75-50-D1
			A side B side	(A) 1,000	(B) 750	XW2Z-RO100-75-D1
			Device end I/O Relay Terminal	(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1
			(A) —	(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
MIL connectors (40 pins)	(1:2)	32 I/O points		(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
	XW2Z-RI□-□-D1		(120)	(A) 750	(B) 500	XW2Z-RI75-50-D1
				(A) 1,000	(B) 750	XW2Z-RI100-75-D1
			(B) →	(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
			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).

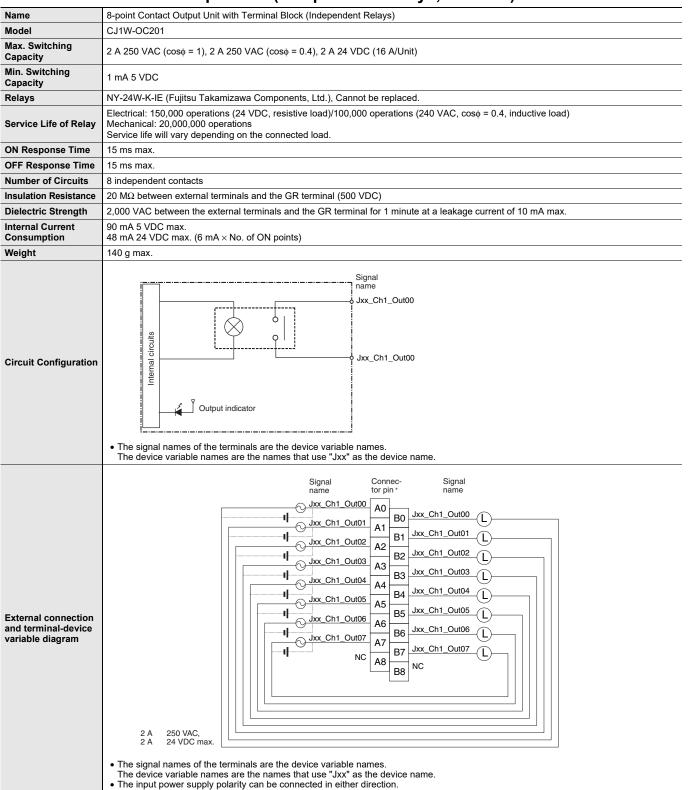
Mountable Racks

	NJ s	NJ system		(CJ1, CJ2)	CP1H system	NSJ sy	/stem*
Model	CPU Rack	Expansion Rack	CPU Rack	Expansion Backplane	CP1H PLC	NSJ Controller	Expansion Backplane
CJ1W-OC201							
CJ1W-OC211							
CJ1W-OA201(-1)			10 Units	10 Units (Per Expansion	Not Supported	Not Supported	10 Units (Per Expansion Backplane)
CJ1W-OD201							
CJ1W-OD203		10 Units					
CJ1W-OD211							
CJ1W-OD213							
CJ1W-OD231							
CJ1W-OD233	10 Units	(Per Expansion					
CJ1W-OD234		Rack)		Backplane)			
CJ1W-OD261							
CJ1W-OD263							
CJ1W-OD202							
CJ1W-OD204							
CJ1W-OD212							
CJ1W-OD232							
CJ1W-OD262							

^{*} Product no longer available to order.

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

CJ1W-OC211 Contact Output Unit (16 Points)

Nama	16 point Contact Output Unit with Torminal Plack									
Name	16-point Contact Output Unit with Terminal Block									
Model May Switching	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	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 dechanical: 20,000,000 operations dervice life will vary depending on the connected load.									
ON Response Time	15 ms max.									
OFF Response Time	15 ms max.									
Number of Circuits	16 points/common, 1 circuit									
Insulation Resistance	20 MΩ between external terminals and the GR terminal (500 VDC)									
Dielectric Strength	2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.									
Internal Current Consumption	110 mA 5 VDC max. 96 mA 24 VDC max. (6 mA × No. of ON points)									
Weight	170 g max.									
Circuit Configuration	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 connector pin · Signal 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.

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

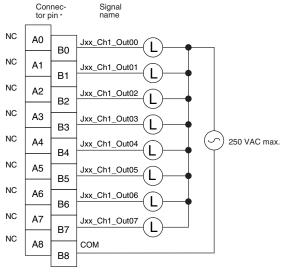
The device variable names are the names that use "Jxx" as the device name.

CJ1W-OA201/CJ1W-OA201-1 Triac Output Unit (8 Points)

8-point Triac Output Unit with Terminal Block

Name	o-point that Output Onk with Terminal Block					
Model	CJ1W-OA201/CJ1W-OA201-1					
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	20 mA max.					
Weight	150 g max.					
Circuit Configuration	Output indicator Signal name Jxx_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.					
	Connector pin* NC A0 B0 Jxx_Ch1_Out00 L NC A1 B1 Jxx_Ch1_Out01 L					

External connection and terminal-device variable diagram



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

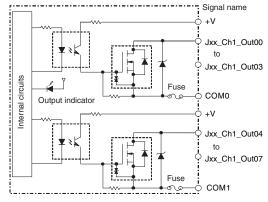
The device variable names are the names that use "Jxx" as the device name.

^{*} 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

Signal Connec-Signal tor pin Jxx_Ch1_Out00 Α0 Jxx_Ch1_Out01 B0 Α1 Jxx_Ch1_Out03 B1 A2 12 to 24 VDC NC B2 COM0 АЗ ВЗ NC Α4 **External connection** NC B4 and terminal-device variable diagram Jxx Ch1 Out04 A5 Jxx_Ch1_Out05 B5 Α6 В6 Α7 NC 12 to 24 VDC B7 COM1 Α8 +V B8

- 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.

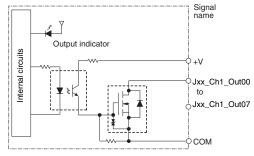
The device variable names are the names that use "Jxx" as the device name.

^{*} 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

CJ1W-OD203 Transistor Output Unit (8 Points)

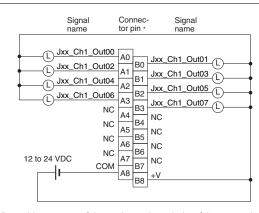
Name	8-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD203
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.5 A/point, 4.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	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.

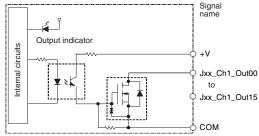
 The device variable names are the names that use "Jxx" as the device name.

^{*} 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)

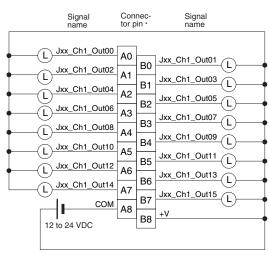
Name	16-point Transistor Output Unit with Terminal Block (Sinking Outputs)			
Model	CJ1W-OD211			
Rated Voltage	12 to 24 VDC			
Operating Load Voltage Range	0.2 to 26.4 VDC			
Maximum Load Current	.5 A/point, 5.0 A/Unit			
Maximum Inrush Current	4.0 A/point, 10 ms max.			
Leakage Current	.1 mA max.			
Residual Voltage	.5 V max.			
ON Response Time	0.1 ms max.			
OFF Response Time	0.8 ms max.			
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	16 (16 points/common, 1 circuit)			
Internal Current Consumption	5 VDC 100 mA max.			
Fuse	None			
External Power Supply	10.2 to 26.4 VDC, 20 mA min.			
Weight	110 g max.			

Circuit Configuration



• 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.

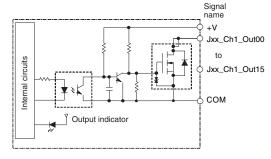
The device variable names are the names that use "Jxx" as the device name.

^{*} 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	4 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	1 mA max.		
Residual Voltage	.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.		

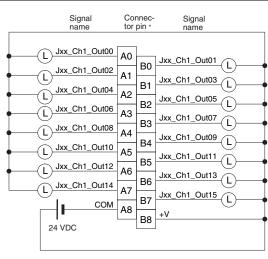
Circuit Configuration



• 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



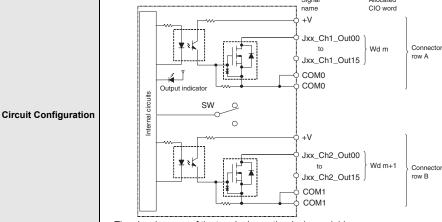
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- The signal names of the terminals are the device variable names.

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

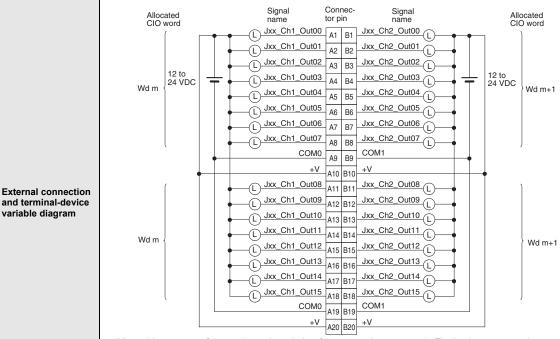
^{*} Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD231 Transistor Output Unit (32 Points)

Name	32-point Transistor Output Unit with Fujitsu / OTAX 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 names 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

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CJ1W-OD233 Transistor Output Unit (32 Points)

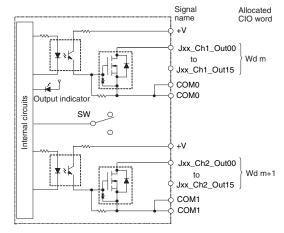
Name	32-point Transistor Output Unit with MIL Connector (Sinking Outputs)			
Model	CJ1W-OD233			
Rated Voltage	2 to 24 VDC			
Operating Load Voltage Range	10.2 to 26.4 VDC			
Maximum Load Current	0.5 A/point, 2 A/common, 4 A/Unit			
Maximum Inrush Current	4.0 A/point, 10 ms max.			
Leakage Current	0.1 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

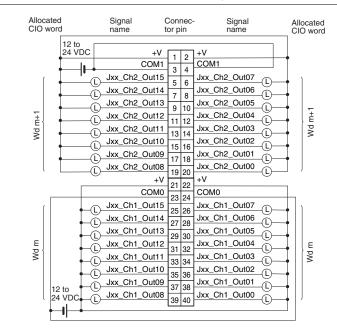
External connection

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.



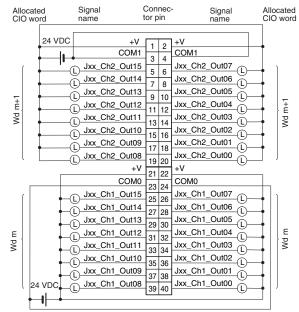
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM0).
- Be sure to wire both terminals 3 and 4 (COM1).
- Be sure to wire both terminals 21 and 22 (+V).
- Be sure 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



- . 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).

External connection

and terminal-device

variable diagram

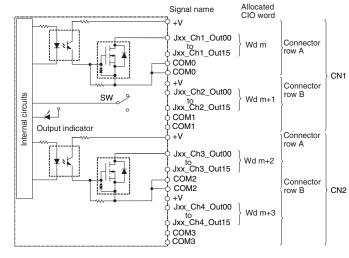
- Be sure to wire both terminals 21 and 22 (+V).
- Be sure to wire both terminals 1 and 2 (+V).
- The signal names of the terminals are the device variable names.

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

CJ1W-OD261 Transistor Output Unit (64 Points)

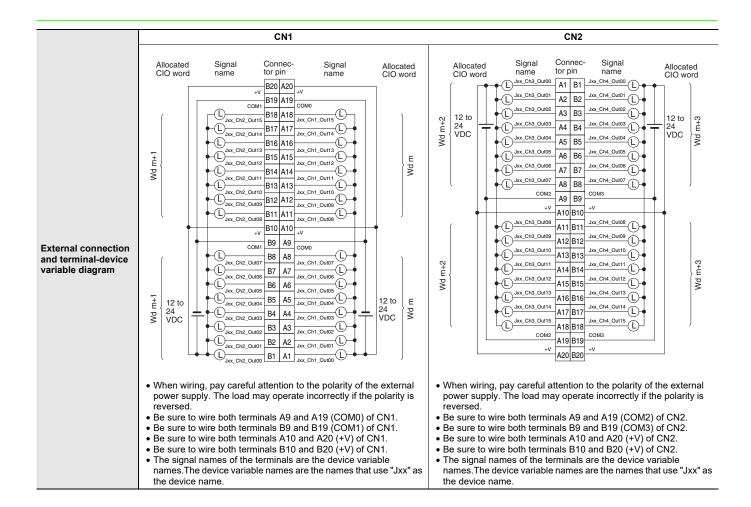
Circuit Configuration

Name	64-point Transistor Output Unit with Fujitsu / OTAX 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		



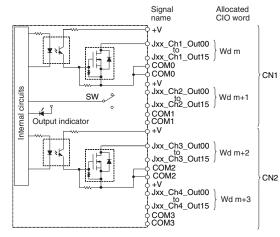
The signal names of the terminals are the device variable names.

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



CJ1W-OD263 Transistor Output Unit (64 Points)

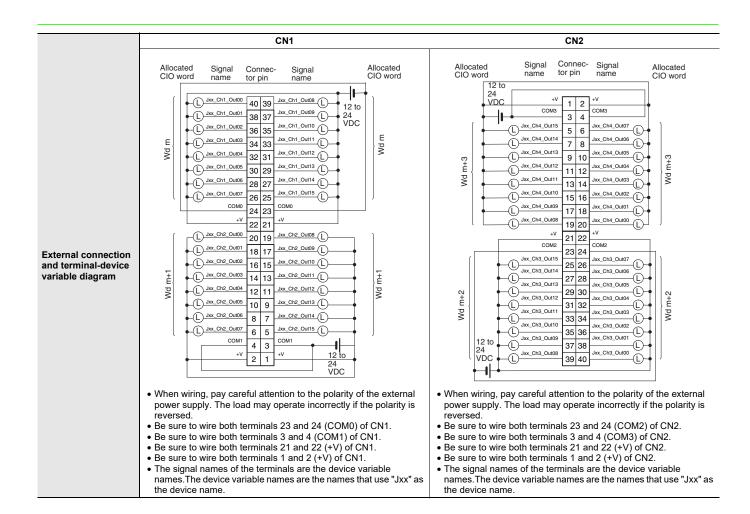
Name	64-point Transistor Output Unit with MIL Connectors (Sinking Outputs)		
Model	CJ1W-OD263		
Rated Voltage	2 to 24 VDC		
Operating Load Voltage Range	10.2 to 26.4 VDC		
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit		
Maximum Inrush Current	3.0 A/point, 10 ms max.		
Leakage Current	0.1 mA max.		
Residual Voltage	1.5 V max.		
ON Response Time	0.5 ms max.		
OFF Response Time	1.0 ms max.		
Insulation Resistance	20 MΩ between the external terminals and the GR terminal (100 VDC)		
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		
Number of Circuits	64 (16 points/common, 4 circuits)		
Internal Current Consumption	170 mA max.		
Fuse	None		
External Power Supply	10.2 to 26.4 VDC, 50 mA min.		
Weight	110 g max.		



Circuit Configuration

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.



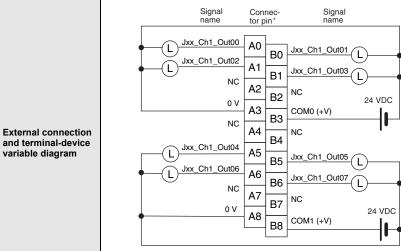
CJ1W-OD202 Transistor Output Unit (8 Points)

	-			
Name	3-point Transistor Output Unit with Terminal Block (Sourcing Outputs)			
Model	CJ1W-OD202			
Rated Voltage	4 VDC			
Operating Load Voltage Range	0.4 to 26.4 VDC			
Maximum Load Current	2 A/point, 8 A/Unit			
Leakage Current	1.1 mA max.			
Residual Voltage	.5 V max.			
ON Response Time	.5 ms max.			
OFF Response Time	.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 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	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 Syx_Ch1_Out03 Internal circuits Output indicator COM1 (+V) **Circuit Configuration** Jxx_Ch1_Out04 Jxx_Ch1_Out07 ERR indicator

- . 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



- 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

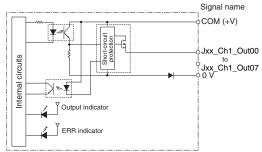
The device variable names are the names that use "Jxx" as the device name

^{*} 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

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	.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.		
	Cinnel name		

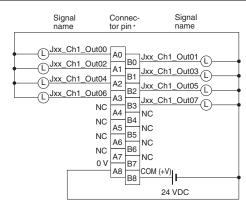
Circuit Configuration



- 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.

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-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 0.5 A/point, 5.0 A/Unit Current Maximum Inrush 0.1 mA max. Current Leakage Current 1.5 V max. **ON Response Time** 0.5 ms max. **OFF Response Time** 1.0 ms max. Load Short-circuit Detection current: 0.7 to 2.5 A Protection Automatic restart after error clearance Insulation Resistance 20 M Ω between the external terminals and the GR terminal (100 VDC)

1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.

External Power Supply 20.4 to 26.4 VDC, 40 mA min. Weight 120 g max.

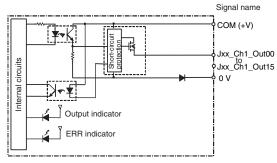
Circuit Configuration

Dielectric Strength

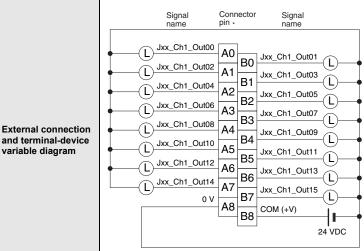
Number of Circuits

Internal Current

Consumption



- 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



16 (16 points/common, 1 circuit)

5 VDC, 100 mA max.

- 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.

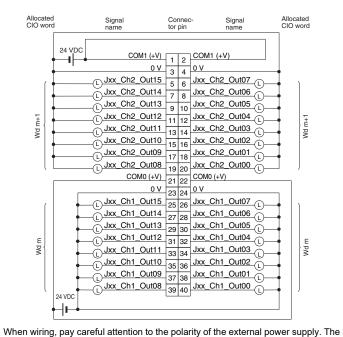
CJ1W-OD232 Transistor Output Unit (32 Points)

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	1 mA max.		
Residual Voltage	.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		

Allocated CIO word COM0 (+V) COM0 (+V) Jxx_Ch1_Out00 Jxx_Ch1_Out15 \ 0 V Output indicator **Circuit Configuration** Jxx_Ch2_Out00 Jxx_Ch2_Out15 VV Wd m+1 ERR indicator

- 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.

Signal name



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 21 and 22 (COM0 (+V)).
- Be sure to wire both terminals 1 and 2 (COM1 (+V)).
- Be sure to wire both terminals 3 and 4 (0 V).

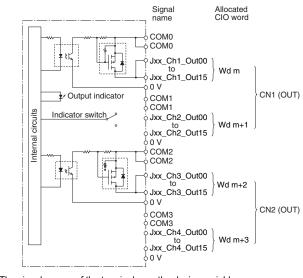
External connection and terminal-device

variable diagram

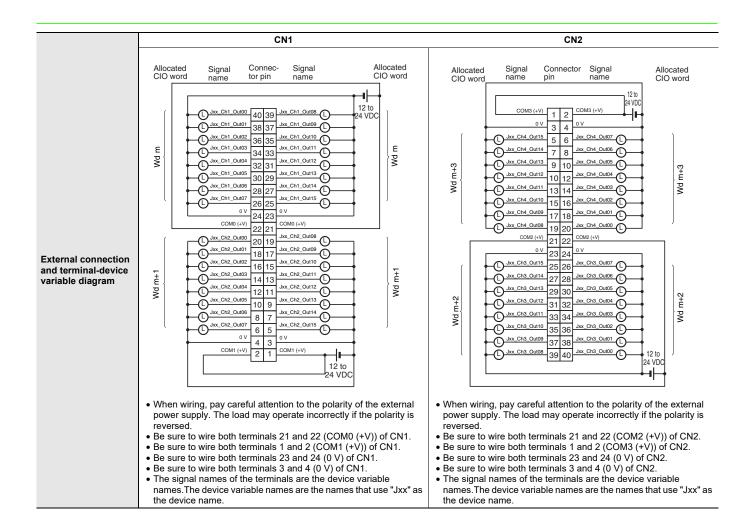
- Be sure to wire both terminals 23 and 24 (0 V).
 The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name

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



Bit Allocations for Output Unit

8-point Output Unit

Allocated	0:		
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	Cianal name (C I/N I)		
CIO	Bit	Signal name (CJ/NJ)	
	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	:	:	
(Supul)	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
	00	OUT0/Jxx_Ch2_Out00	
Wd m+1 (Output)	01	OUT1/Jxx_Ch2_Out01	
	:	:	
	14	OUT14/Jxx_Ch2_Out14	
	15	OUT15/Jxx_Ch2_Out15	

16-point Output Unit

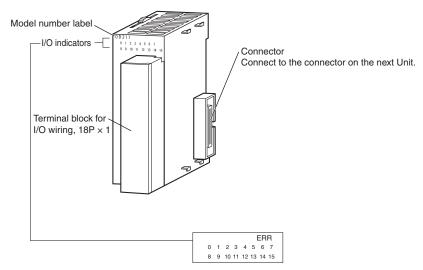
Allocated CIO word		Signal name (C I/N I)	
CIO	Bit	Signal name (CJ/NJ)	
Wd m (Output)	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
	:	:	
	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	

64-point Output Unit

Allocated CIO word			
	Signal name (CJ/NJ)		
CIO	Bit	3 1 1 (1 1)	
	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)	:	;	
(σαιραί)	14	OUT14/Jxx_Ch4_Out14	
	15	OUT15/Jxx_Ch4_Out15	

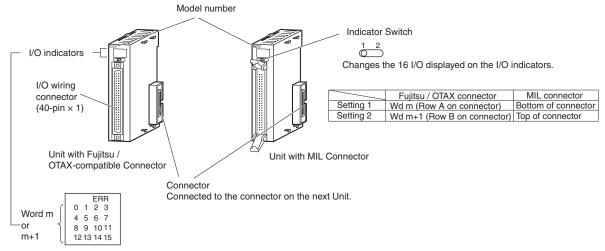
External Interface

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



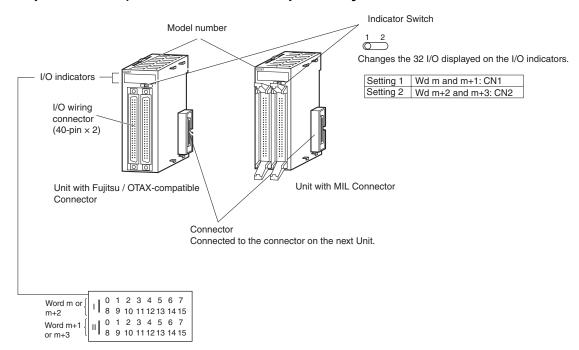
Note: The CJ1W-OD202, CJ1W-OD204, and CJ1W-OD212 also have an ERR indicator for the load short-circuit alarm.

32-point Units (Models with 40-point Fujitsu / OTAX 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 / OTAX 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.

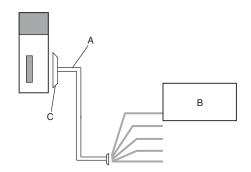


I/O Unit Wiring Methods

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.

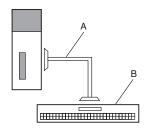


Α	User-provided cable
В	External device
С	Connector

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.

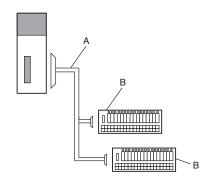


Α	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2□

3. I/O Relay Terminal

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

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



A	Connecting Cable for I/O Relay Terminals XW2Z-R
В	I/O Relay Terminals G70V, G7TC Relay Terminals G70D 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 / OTAX-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 / OTAX parts	
Solder-type	40	C500-CE404	Socket: Fujitsu FCN-361J040-AU Connector cover: Fujitsu FCN-360C040-J2 OTAX N360C040J2	
Crimped	40	C500-CE405	Socket:	
Pressure-welded	40	C500-CE403	Fujitsu 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 / OTAX 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)

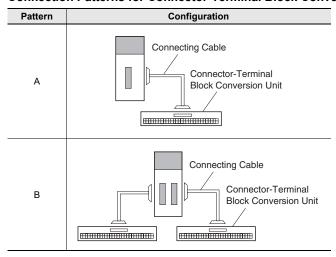
Product Name	Model			
Manual Crimping Tool	XY2B-7007			

^{*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

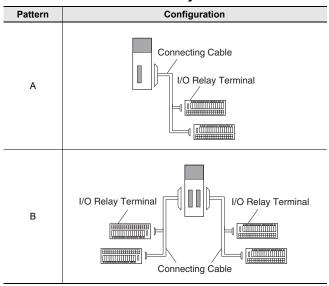
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals
CJ1W-OD231 32 outputs		1 Fujitsu /	NPN	А	XW2Z-□□□B	XW2K-40G-O32B	Push-In Plus	No
	20 autouta					XW2K-40G-O32B-OUT	Push-In Plus	Yes
	32 outputs	OTAX connector				XW2R-J34GD-C3	Phillips screw	No
						XW2R-E34GD-C3	Slotted screw (rise up)	No
			DAID		VW07 PPP	XW2K-40G-O32C	Push-In Plus	No
0.1414/ 0.0000	20	1 MIL				XW2K-40G-O32C-OUT	Push-In Plus	Yes
CJ1W-OD232 32 outputs	connector	PNP	A	XW2Z-□□□K	XW2R-J34GD-C4	Phillips screw	No	
						XW2R-E34GD-C4	Slotted screw (rise up)	No
						XW2K-40G-O32C	Push-In Plus	No
(11VV-()1)233 32 OUTDUTS	1 MIL	NDN		VA407	XW2K-40G-O32C-OUT	Push-In Plus	Yes	
	32 outputs	connector	NPN	A	XW2Z-□□□K	XW2R-J34GD-C4	Phillips screw	No
						XW2R-E34GD-C4	Slotted screw (rise up)	No
0.1414/0.0004	1 MIL	NPN		XW2Z-□□□K	XW2K-40G-O32C	Push-In Plus	No	
					XW2K-40G-O32C-OUT	Push-In Plus	Yes	
CJ1W-OD234	32 outputs	connector	NPN	A	XVVZZ-UUK	XW2R-J34GD-C4	Phillips screw	No
						XW2R-E34GD-C4	Slotted screw (rise up)	No
		2 Fujitsu / OTAX connectors	NPN	В	XW2Z-□□□B (2 pcs)	XW2K-40G-O32B (2 pcs)	Push-In Plus	No
CJ1W-OD261	C4 autauta					XW2K-40G-O32B-OUT (2 pcs)	Push-In Plus	No
CJ IVV-ODZ6 I	64 outputs					XW2R-J34GD-C3 (2 pcs)	Phillips screw	Yes
						XW2R-E34GD-C3 (2 pcs)	Slotted screw (rise up)	No
		2 MIL	PNP	В	XW2Z-□□□K (2 pcs)	XW2K-40G-O32C (2 pcs)	Push-In Plus	No
C 141W OD262	64 outputs					XW2K-40G-O32C-OUT (2 pcs)	Push-In Plus	No
CJ1W-OD262 64 output	64 outputs	connectors				XW2R-J34GD-C4 (2 pcs)	Phillips screw	Yes
						XW2R-E34GD-C4 (2 pcs)	Slotted screw (rise up)	No
		2 MIL connectors	NPN	В	XW2Z-□□□K (2 pcs)	XW2K-40G-O32C (2 pcs)	Push-In Plus	No
CJ1W-OD263	64 outputs					XW2K-40G-O32C-OUT (2 pcs)	Push-In Plus	Yes
C3 1 VV-OD 203	64 outputs					XW2R-J34GD-C4 (2 pcs)	Phillips screw	No
						XW2R-E34GD-C4 (2 pcs)	Slotted screw (rise up)	No

* The box ☐ is replaced by the cable length.

Note: For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R Datasheet.

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
CI1W-OD231 32 outputs OTAX			А	XW2Z-RO□C-□	1	G70V-SOC16P(-C4)	16	2	Push-in spring	
	connector	Sinking (NPN)				G7TC-OC16	16		Screw terminal	
						G70D-SOC/FOM16	16			
						G70D-VSOC16/VFOM16	16			
	,					G70A-ZOC16-3 *2	16			
		1 MIL	Sourcing		XW2Z-RO□-□-D1	1	G70A-ZOC16-4 *2	16	2	
CJ1W-OD232	32 outputs	connector	(PNP)	Α			G70D-SOC/FOM16-1	16		Screw terminal
		(40 p)	(FINE)		XW2Z-RI□-□-D1	1	G7TC-OC16-1	16		
				Α	XW2Z-RO□-□-D1	1	G70V-SOC16P(-C4)	16	2	Push-in spring
		1 MIL	0: 1:				G7TC-OC16	16		Screw terminal
CJ1W-OD233	32 outputs	connector	Sinking (NPN)				G70D-SOC/FOM16	16		
		(40 p)	(INFIN)				G70D-VSOC16/VFOM16	16		
						G70A-ZOC16-3 *2	16	1		
							G70V-SOC16P(-C4)	16		Push-in spring
11	1 MIL					G7TC-OC16	16	1		
CJ1W-OD234	32 outputs	connector	Sinking (NPN)	Α	XW2Z-RO□C-□	1	G70D-SOC/FOM16	16	2	Carayy tarminal
' ((40 p)	(NPN)				G70D-VSOC16/VFOM16	16		Screw terminal	
							G70A-ZOC16-3 *2	16		1
					XW2Z-RO□C-□	2	G70V-SOC16P(-C4)	16	4	Push-in spring
		outs 2 Fujitsu / OTAX connectors (40 p)					G7TC-OC16	16		Screw terminal
CJ1W-OD261	64 outputs		Sinking (NPN)	В			G70D-SOC/FOM16	16		
			(INFIN)				G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *2	16		
							G70V-SOC16P-1(-C4)	16	1	Push-in spring
CJ1W-OD262 64 outputs	2 MIL connectors (40 p)	nectors Sourcing	В	XW2Z-RO□-□-D1	2	G70A-ZOC16-4 *2	16	4	Screw terminal	
						G70D-SOC/FOM16-1	16			
		(40 p)			XW2Z-RI□-□-D1	2	G7TC-OC16-1	16	1	
		2 MIL connectors (40 p)	(VIDNI)	В	XW2Z-RO□-□-D1	2	G70V-SOC16P(-C4)	16	4	Push-in spring
							G7TC-OC16	16		Screw terminal
CJ1W-OD263 6	64 outputs						G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *2	16		
	1	1	1	1						

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

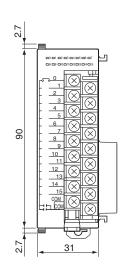
*2. The G70A-ZOC16-3/4 has I/O terminal sockets. Mounted relays are sold separately. In addition, an G70A-ZOC16-3/4 will be SPDT × 16 points with G2R relays.

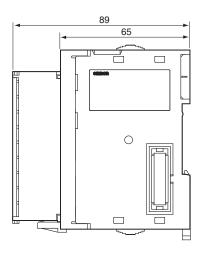
Dimensions (Unit: mm)

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

CJ1W-OC201/ OC211/ OA201(-1)/ OD201/ OD202/ OD203/ OD204/ OD211/ OD213/ OD212



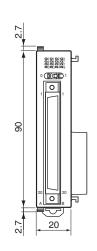


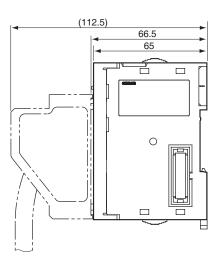


32-point Unit (Output Units)

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

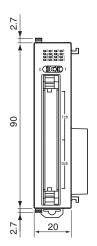


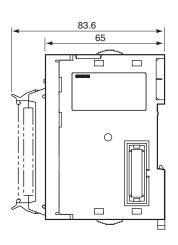




With MIL Connector (40-pin \times 1) CJ1W-OD232 / OD233 / OD234



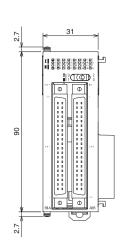


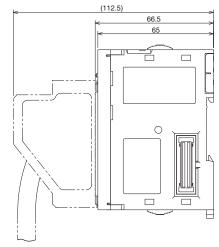


64-point Units (Output Units)

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

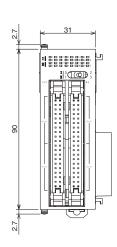


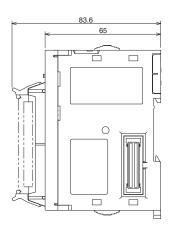




With MIL Connector (40-pin \times 2) CJ1W-OD262 / OD263







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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