CJ1W-OC/OA/OD

特力材料886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

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-OD234

Features

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

Ordering Information

International Standards

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

Output Units

Unit type	Product	WW.1		Specifications			No. of words	consu	rrent imption (A)	Model	Standards
OW.IA	name	Output type	I/O points	Maximum switching capacity	Commons	External connection	allocated	5 V	24 V		Otanidardo
COM.T	Relay Contact Output Units	WW	8 outputs	250 VAC/24 VDC, 2 A	Independen t contacts	Removable terminal block	1 words	0.09	0.048 max.	CJ1W-OC201	
		MA	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	COM:	CJ1W-OA201	UC1, N, L, CE
	COM.T	Sinking	8 outputs	12 to 24 VDC, 2 A	4 points, 1 common	Removable terminal block	1 words	0.09	, CO	CJ1W-OD201	
	N.COM	Sinking	8 outputs	12 to 24 VDC, 0.5 A	8 points, 1 common	Removable terminal block	1 words	0.10	107 . .C	CJ1W-OD203	
	OOY.CON	Sinking	16 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.10	001	CJ1W-OD211	N N
CJ1 Basic /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	N.100	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	W.II	CJ1W-OD231	UC1, N, L, CE
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.14	WW.	CJ1W-OD233	
		Sinking	32 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.22	NN	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	1	CJ1W-OD261	COMP
		Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	41	CJ1W-OD263	COM
		Sourcing	8 outputs	24 VDC, 2 A Short-circuit protection	4 points, 1 common	Removable terminal block	1 words	0.11	-1	CJ1W-OD202	Y.CO
	MA	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
	W	Sourcing	16 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	Removable terminal block	1 words	0.10	-	CJ1W-OD212	100 X.C
		Sourcing	32 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	MIL connector	2 words	0.15	- N	CJ1W-OD232	1.100
		Sourcing	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	W ⁺	CJ1W-OD262	N.100

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. WWW.100Y.COM.TW

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	narks	Applicable Units	Model	Standards
W	Soldered	FCN-361J040-AU FCN-360C040-J2	Connector Connector Cover	Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit	C500-CE404	
40-pin Connectors	Crimped	FCN-363J040 FCN-363J-AU FCN-360C040-J2	Housing Contactor Connector Cover	CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit	C500-CE405	
	Pressure welded	FCN-367J040-AU/F	MIW	CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE403	
ON.TY	Soldered	FCN-361J024-AU FCN-360C024-J2	Connector Connector Cover	WWW.100Y.COM.TW	C500-CE241	_
24-pin Connectors	Crimped	FCN-363J024 FCN-363J-AU FCN-360C024-J2	Housing Contactor Connector Cover	Fujitsu Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit	C500-CE242	
	Pressure welded	FCN-367J024-AU/F	COM	COM.	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	Standard
40-pin Connectors	Pressure welded	FRC5-AO40-3TOS	MIL Connectors: CJ1W-ID232/233 (32 inputs): 1 per Unit CJ1W-OD232/233/234 (32 outputs): 1 per Unit CJ1W-ID262 (64 inputs): 2 per Unit CJ1W-OD262/263 (64 outputs): 2 per Unit CJ1W-MD263/563 (32 inputs, 32 outputs): 2 per Unit	XG4M-4030-T	_
20-pin Connectors	Pressure welded	FRC5-AO20-3TOS	MIL Connectors: CJ1W-MD232/233 (16 inputs, 16 outputs): 2 per Unit	XG4M-2030-T	

Applicable Connector-Terminal Block Conversion Units

	00x.	10-	I_M			Size		Mou	ınting		Bleeder	100 2	COM:	
Туре	Series	l/O	Number of poles	Terminal type	Depth (mm)		Width (mm)	DIN Track	Screws	Common terminals	resistance	Indicators	Model	Standard
W W	007	Co	20		W		79		TV		MA	-1100	XW2D-20G6	
	1.700	1/0	Mr.	~ 1	- 47	WW.			COMP		No	11.70	XW2D-40G6	N
Slim	XW2D	7.0	40	МЗ	39	40	149	Yes	Yes	No		No	XW2D-40C6	-1
	11.	Input	40	W	1	MAIN	149	Y.C.	- 11		Built-in	1	XW2D-40G6-RF	
	1.W.1	only	OM	- 1		-TVV	A'To.	- 4 7 (O_{MT} .	-XX	Duiit-iii	MM·r	XW2D-40G6-RM	
W	1100	00%	7/1	M3.5		11	112.5	01.	Mor	TAL		TXN.	XW2B-20G5	1
TI I	MANOR	1001	20	M3 (European type)	45	45.00	67.5	COM	LTW			XW2B-20G4	LTW	
Through	ugh XW2B	I/O		M3.5	45	45.3	202.5	Yes	Yes	No	No	No	XW2B-40G5	M
	WW	W.10	40	M3 (European type)	N	V	135	COM.T	N	WY	XW2B-40G4	OM.TY		
With		I/O	20	M3	39	40	149	$M_{T_{i}}$	~ < 7 (O_{Mr}	-XX	No	XW2C-20G6-IO16	Ohr
common terminals	XW2C	Input only	20	M3.5	50	38	160	Yes	Yes	Yes	No	Yes	XW2C-20G5-IN16	co_{M}
With common terminals, 3-tier	XW2E	Inputs only, 3 tiers	20	M3.5	50	53	149	Yes	Yes	Yes	No	No	XW2E-20G5-IN16	V.CO
Screwless		Input only	20	Clamp	50	40	95.5	Yes	Yes	Yes	No	No	XW2F-20G7-IN16	oy.C
clamp terminals	XW2F	Outputs only	20	Clamp	50	40	95.5	Yes	Yes	Yes	No	No	XW2F-20G7-OUT16	OOY.C
e-CON	XW2N	Input only	20	e-CON connector	50	40	95.5	Yes	Yes	Yes	No	No	XW2N-20G8-IN16	1001

Note: For the combination of Output Units with Connector-Terminal Block Conversion Units, refer to 2. Connecting Connector-Terminal Block Conversion Units. WWW.100Y.COM. WWW.100Y.COM WWW.100Y.COM.

Applicable I/O Relay Terminals

			WW	700 X	Specifications						Size (horizontal mounting)							
Туре	Series Cla		Classi	fication	Polarity	Number of points	Rated ON current at contacts	Operation indicators	Terminal block for power supply wiring	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standrads		
	TW	Vertical	W	Relay outputs	OOY.	16	5A or 3A	4	MMAA	100X	Con	T.IV	7		G70D-VSOC16			
	TW	type G70D-V	W	MOSFET relay outputs	NPN	(SPST- NO × 16)	0.3A	Yes	Expandable	135	46	81	Yes	Yes	G70D-VFOM16	U, C, CE		
	M.T.		WW.	N.100	8 (SPST- NO × 8)	5A	N	WV	68	93	44		V	G70D-SOC08	_			
Space- saving	G70D	TW	Outputs	Relay outputs	NPN	16 (SPST- NO × 16)	3A	N	W	NN.	700X	$CO_{\overline{D}}$	M.T	W	G70D-SOC16			
	Flat type G70D	V	W	PNP	16 (SPST- NO × 16)	3A	Yes	- 1	156	51	39	Yes	Yes	G70D-SOC16-1	_			
	(.CO	Mr.	W	MOSFET	MOSFET NPN relay	16 (SPST-	0.3A	TW		WW	N.10	oY.			G70D-FOM16			
700	V.C	DM.		outputs	PNP	NO × 16)	V.SA		V	WV	111.1	NO Y	CO	71 J	G70D-FOM16-1	_		
High- capacity, space- saving	G70R		Outputs	Relay outputs	NPN	8 (SPST- NO × 8)	10A	Yes	W_ W_	136	93	55	Yes	Yes	G70R-SOC08	-		
NW.	100 y	V.CO	VI. 7	AC inputs	nputs	16	To	CO_{M}	TW		WW	N.3	ON	CO_{p}	G7TC-IA16			
	700		Inputs	DC inputs	NPN	(SPST- NO × 16)	1A	Y.COV	WT	182	WV	11.1	100	I.CO	G7TC-ID16	-		
Standard	G7TC		ON	TW		8 (SPST- NO × 8)	W.10	Yes	Yes	Yes	W.TV	102	85	68	Yes	V.C	G7TC-OC08	U, C
WW	3/10	. OUX. Co	Outputs	Relay outputs	NPN	PN 16 (SPST- NO × 16)	5A			OM.T	182		MM.	W.1	1001 1017	G7TC-OC16	N	
	WV		N.C	M_{1}	PNP	16 (SPST- NO × 16)	NWW	100X	c_{OM}	102		WY		100	G7TC-OC16-1	W_		
High-	capacity (Socket only)		.00Y.	Relay	NPN	16 (SPDT × 16	10 A (Terminal	M.100	N.CO	M.TV				W.10	G70A-ZOC16-3 (Socket only) + Relay/SSR/ MOSFET Relay/ Timer	U, C,		
capacity socket		et only)	Outputs	outputs	PNP	possible with G2R Relays)	block allowable current)	No	100X; 100X; _C	234	75	64	Yes	WW.	G70A-ZOC16-4 (Socket only) + Relay/SSR/ MOSFET Relay/ Timer	CE		

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Note: For the combination of Output Units with I/O Relay Terminal and Connecting Cables, refer to 3. Connecting I/O Relay Terminals. WWW.100Y.CON WWW.100Y.CO WWW.100Y.COM.TW

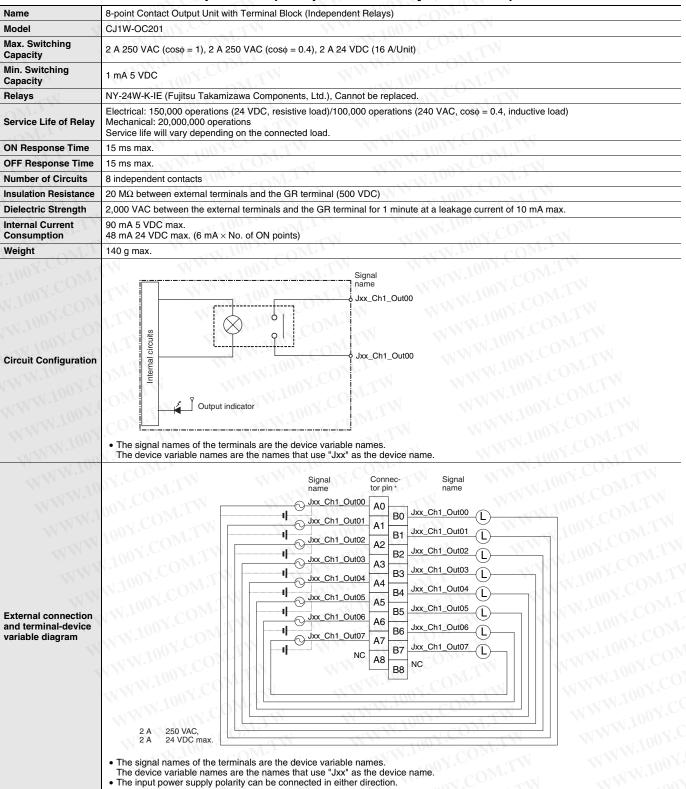
Mountable Racks

	NJ s	system	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	11 100	TOM.		AM.100	OM		-
CJ1W-OC211	WWW	Y.Co.		W . 1007.	WILL		
CJ1W-OA201		· · · CONI.		WW. L	COM		
CJ1W-OD201	1111	00^{1} . 0^{1} .		100 1	COMIT	-	
CJ1W-OD203	MAN AN.	CON.CO		WWW TOO	Y.CO.		
CJ1W-OD211	N IX	TOOM		TWW.Io	Z COM.	CN .	
CJ1W-OD213		1007.		W 10	0.1		
CJ1W-OD231	WWW	10 Units		10 Units	MY.Co		10 Units
CJ1W-OD233	10 Units	(Per Expansion	10 Units	(Per Expansion	Not Supported	Not Supported	(Per Expans
CJ1W-OD234		Rack)		Backplane)	1001.	1.7.	Backplane
CJ1W-OD261	VIX.	M. CO		MINN	ONY.CO.	WT	
CJ1W-OD263		W.100		TXXIV	1.100	VI.	
CJ1W-OD202	N W	11007.0		1111	N 100 Y	TIM	
CJ1W-OD204		WW.		WW	M. CI	WT	
CJ1W-OD212	7	100			W.100	OM.	
CJ1W-OD232	CV	11001			1007.	OMITW	
CJ1W-OD262	- 1	TATAN N. 1		N «XI	WW.	COL	

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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) Name 16-point Contact Output Unit with Terminal Block Model CJ1W-OC211 Max. Switching 2 A 250 VAC (cos\phi = 1), 2 A 250 VAC (cos\phi = 0.4), 2 A 24 VDC (8 A/Unit) Capacity Min. Switching 1 mA 5 VDC Capacity Relays NY-24W-K-IE (Fujitsu Takamizawa Components, Ltd.), Cannot be replaced. Electrical: 150,000 operations (24 VDC, resistive load)/ 100,000 operations (250 VAC, cos\phi = 0.4, inductive load) Service Life of Relay Mechanical: 20.000.000 operations Service life will vary depending on the connected load.

ON Response Time 15 ms max.

OFF Response Time 15 ms max.

Number of Circuits 16 points/common, 1 circuit

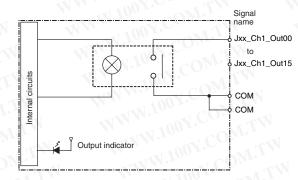
 Insulation Resistance
 20 MΩ between external terminals and the GR terminal (500 VDC)

 Dielectric Strength
 2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.

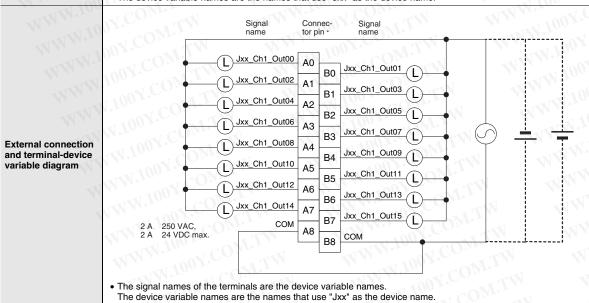
Internal Current 110 mA 5 VDC max. 96 mA 24 VDC max. (6 mA × No. of ON points)

Weight 170 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.



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

CJ1W-OA201 Triac Output Unit (8 Points) Name 8-point Triac Output Unit with Terminal Block Model C.I1W-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) 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** 220 mA max. Consumption Weight 150 g max. circuits Jxx_Ch1_Out00 OJXX_Ch1_Out07 Circuit Configuration Internal ф сом 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 A0 Jxx_Ch1_Out00 B0 NC Α1 Jxx_Ch1_Out01 B1 NC A2 Jxx_Ch1_Out02 R2 NC A3 Jxx Ch1 Out03 ВЗ **External connection** NC 250 VAC max. and terminal-device Α4 Jxx_Ch1_Out04 variable diagram В4 NC Α5 Jxx_Ch1_Out05 **B**5 NC A6 Jxx_Ch1_Out06 В6 NC Α7 Jxx_Ch1_Out07 B7 NC **A8** СОМ **B8** • 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-OD201 Transistor Output Unit (8 Points) Name 8-point Transistor Output Unit with Terminal Block (Sinking Outputs) Model CJ1W-OD201 12 to 24 VDC **Rated Voltage** Operating Load Voltage Range 10.2 to 26.4 VDC Maximum Load 2.0 A/point, 8.0 A/Unit Current Maximum Inrush 10 A/point, 10 ms max. Current 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 $M\Omega$ 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 90 mA max. Consumption 6.3 A (1/common, 2 used) The fuse cannot be replaced by the user **External Power** 12 to 24 VDC, 10 mA min. Supply Weight 110 g max. Signal name Jxx_Ch1_Out00 Jxx_Ch1_Out03 Internal circuits COM₀ Output indicator Circuit Configuration Jxx Ch1 Out04 Jxx_Ch1_Out07 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 Signal Connec Signal tor pin Jxx_Ch1_Out00 Α0 Jxx_Ch1_Out01 B0 Jxx_Ch1_Out02 Α1 _Out03 B1 Α2 12 to 24 VDC NC B2 СОМО АЗ **B**3 NC A4 **External connection** NC B4 and terminal-device Jxx_Ch1_Out04 variable diagram A5 Jxx_Ch1_Out05 B5 Jxx_Ch1_Out06 A6 Jxx_Ch1_Out07 B6 NC A7 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.

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

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-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 0.5 A/point, 4.0 A/Unit Current **Maximum Inrush** 4.0 A/point, 10 ms max. Current Leakage Current 0.1 mA max **Residual Voltage** 1.5 V max. **ON Response Time** 0.1 ms max. **OFF Response Time** 0.8 ms max. 20 $M\Omega$ between the external terminals and the GR terminal (100 VDC) **Insulation Resistance Dielectric Strength** 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. **Number of Circuits** 8 (8 points/common, 1 circuit) Internal Current 100 mA max Consumption Fuse None **External Power** 10.2 to 26.4 VDC, 20 mA min. Supply Weight 110 g max. Output indicator Internal circuits Jxx Ch1 Out00 **Circuit Configuration** Jxx_Ch1_Out07 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-L Jxx_Ch1_Out00 A0 Jxx_Ch1_Out01 B0 Α1 Jxx_Ch1_Out03 (L) ______Jxx_Ch1_Out04 B1 A2 Jxx_Ch1_Out05 B2 АЗ Jxx_Ch1_Out07 ВЗ NC External connection Α4 NC B4 and terminal-device NC Α5 NC variable diagram B5 NC A6 NC NC B6 Α7 12 to 24 VDC NC В7 COM A8 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

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 0.5 A/point, 5.0 A/Unit Current Maximum Inrush 4.0 A/point, 10 ms max. Current Leakage Current 0.1 mA max **Residual Voltage** 1.5 V max. **ON Response Time** 0.1 ms max. **OFF Response Time** 0.8 ms max. 20 $M\Omega$ between the external terminals and the GR terminal (100 VDC) **Insulation Resistance Dielectric Strength** 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max **Number of Circuits** 16 (16 points/common, 1 circuit) Internal Current 5 VDC 100 mA max Consumption Fuse None **External Power** 10.2 to 26.4 VDC, 20 mA min. Supply Weight 110 g max. Signal name Output indicator circuits Jxx Ch1 Out00 Internal Circuit Configuration to Jxx_Ch1_Out15 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 Signal name Jxx_Ch1_Out00 A0 Jxx_Ch1_Out01 В0 Jxx_Ch1_Out02 Α1 Jxx_Ch1_Out03 L В1 Jxx_Ch1_Out04 Α2 B2 Jxx_Ch1_Out06 АЗ Jxx_Ch1_Out07 **B**3 Jxx_Ch1_Out08 **External connection** Jxx_Ch1_Out09 L B4 and terminal-device Jxx_Ch1_Out10 Jxx_Ch1_Out11 variable diagram B5 L Jxx_Ch1_Out12 Jxx_Ch1_Out13___ B6 L Jxx_Ch1_Out14 Α7 Jxx Ch1 Out15 B7 COM Α8 B8

12 to 24 VDC

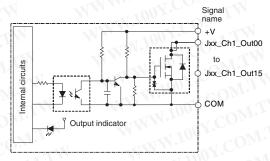
<sup>When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.</sup>

^{*} 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)

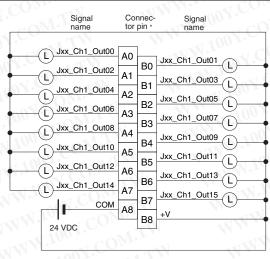
Name	16-point Transistor Output Unit with Terminal Block (Sinking Outputs)
Model	CJ1W-OD213
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 5.0 A/Unit
Maximum Inrush Current	4.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V 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.
- 411111 - 4	

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



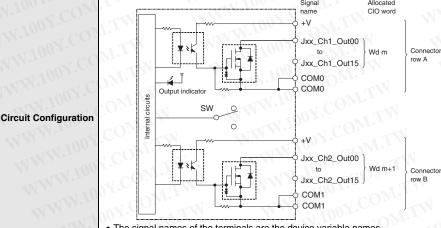
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- The signal names of the terminals are the device variable names.

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

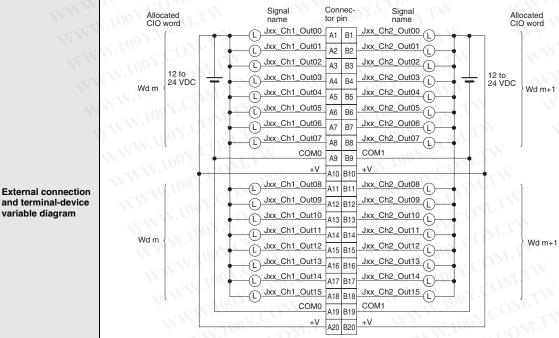
^{*} Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

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
100X	Signal Allocated



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



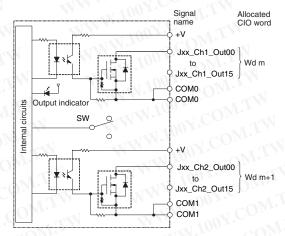
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
 Be sure to wire both terminals A9 and A19 (COM0).
 Be sure to wire both terminals B10 and B20 (+V).
 Be sure to wire both terminals B10 and B20 (+V).
 The 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

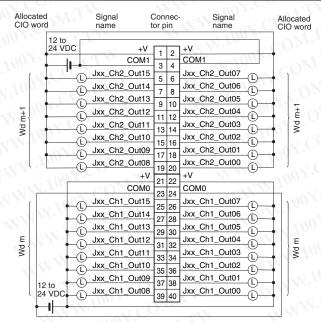
CJ1W-OD233 Transistor Output Unit (32 Points)

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 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	140 mA max.
Fuse	None
External Power Supply	12 to 24 VDC, 30 mA min.
Weight	70 g max.
M.100X.COM	Signal Allocated CIO word +V Jxx_Ch1_Out00 } to Wd m

Circuit Configuration



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



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

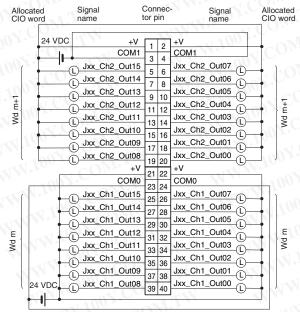
 The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD234 Transistor Output Unit (32 Points)

1
N .
×1
-XX
1.4.
0 mA max.
VII.
TV
M. T.
OM.

Signal name CIO word Jxx_Ch1_Out00 Wd m Jxx Ch1 Out15 COMO СОМО Output indicator **Circuit Configuration** SW 0 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



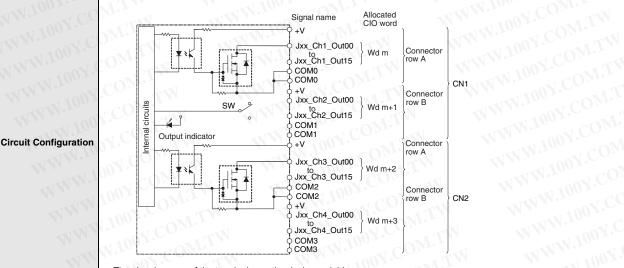
- External connection and terminal-device variable diagram
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM0).
- Be sure to wire both terminals 3 and 4 (COM1).
- 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

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W.100Y.COM.TW CJ1W-OD261 Transistor Output Unit (64 Points)

CJ1W-OD261 12 to 24 VDC
12 to 24 VDC
10.2 to 26.4 VDC
0.3 A/point, 1.6 A/common, 6.4 A/Unit
3.0 A/point, 10 ms max.
0.1 mA max.
1.5 V max.
0.5 ms max.
1.0 ms max.
20 MΩ 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.
64 (16 points/common, 4 circuits)
5 VDC, 170 mA max.
None William Control of the Control
10.2 to 26.4 VDC, 50 mA min.
110 g max.
None COMMAN COMA
0 3 0 1 0 1 1 1 1



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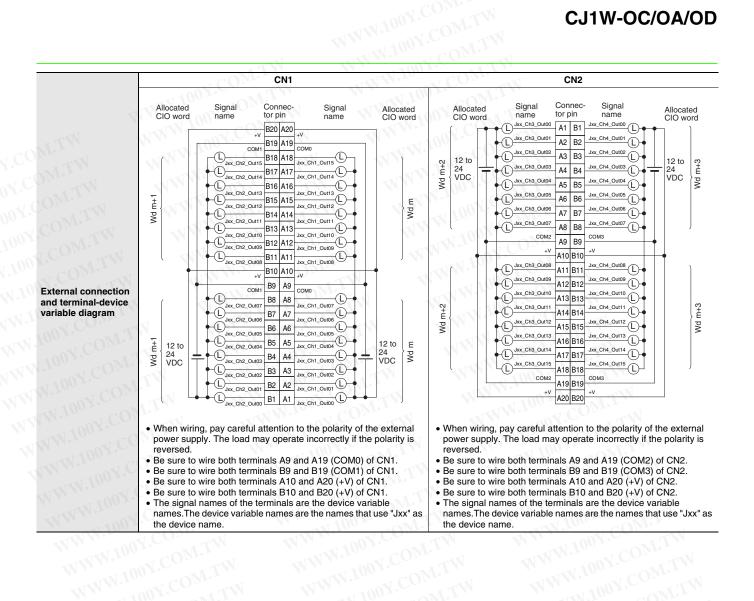
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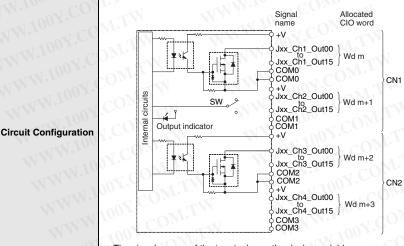
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[•] The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name



W.100Y.COM.TW 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.
nsulation Resistance	20 M Ω between the external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Number of Circuits	64 (16 points/common, 4 circuits)
Internal Current Consumption	170 mA max.
Fuse	None
External Power Supply	12 to 24 VDC, 50 mA min.
Weight	110 g max.
	Signal Allocated name CIO word +V Jxx_Ch1_Out00 Jxx_Ch1_Out15 Wd m COM0

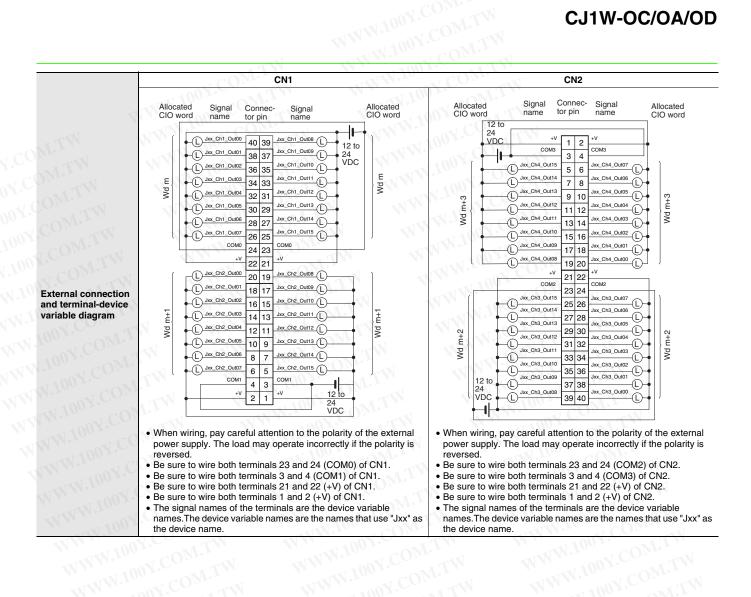


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• The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. WWW.100Y.COM.T 100Y.COM.TW

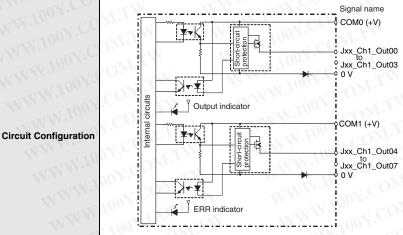
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CJ1W-OD202 Transistor Output Unit (8 Points)

Name	8-point Transistor Output Unit with Terminal Block (Sourcing Outputs)
Model	CJ1W-OD202
Rated Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC
Maximum Load Current	2 A/point, 8 A/Unit
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Load Short-circuit Protection	Detection current: 6 A min. Automatic restart after error clearance.
Line Disconnection Detection	Detection current: 200 mA
Insulation Resistance	20 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	24 VDC, 50 mA min.
Weight	120 g max.
SALIN AND	



- 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 "live" as the device name.

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

W	100	Signal name	Con tor p	nec- oin*	Signal name	x 100 Y
xternal connection nd terminal-device ariable diagram			00 A0 02 A1 04 A2 04 A3 06 A6 06 A6 07 A7	B0 B1 B2 B3 B4 B5 B6 B6	Jxx_Ch1_Out01 Jxx_Ch1_Out03 NC COM0 (+V) NC Jxx_Ch1_Out05 Jxx_Ch1_Out07 NC COM1 (+V)	L 24 VDC L 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 the Units.

CJ1W-OD204 Transistor Output Unit (8 Points) Name 8-point Transistor Output Unit with Terminal Block (Sourcing Outputs) Model CJ1W-OD204 24 VDC **Rated Voltage Operating Load** 20.4 to 26.4 VDC Voltage Range Maximum Load 0.5 A/point, 4.0 A/Unit Current 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: 0.7 to 2.5 A Protection Automatic restart after error clearance 20 $M\Omega$ between the external terminals and the GR terminal (100 VDC) Insulation Resistance **Dielectric Strength** 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. **Number of Circuits** 8 (8 points/common, 1 circuit) Internal Current 5 VDC, 100 mA max. Consumption Fuse None **External Power** 20.4 to 26.4 VDC, 40 mA min. Supply 120 g max. Weight Signal name COM (+V) Jxx_Ch1_Out00 Jxx_Ch1_Out07 Internal Circuit Configuration Output indicator ERR indicato • 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 Signal Connec Signal Jxx_Ch1_Out00 A0 Jxx_Ch1_Out01 B0 Α1 Jxx_Ch1_Out03 (L) B1 Jxx_Ch1_Out05 A2 Jxx_Ch1_Out06 B2 Jxx_Ch1_Out07 АЗ NC ВЗ **External connection** A4 NC and terminal-device NC B4 A5 NC variable diagram NC B5 A6 NC В6 NC Α7 NC 0 V B7

• When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.

24 VDC

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

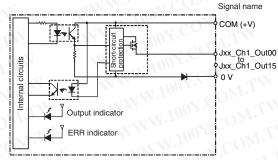
The signal names of the terminals are the device variable names.
 The device variable names are the names that use "Jxx" as the device name.

* 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.

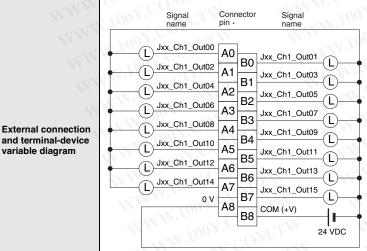
CJ1W-OD212 Transistor Output Unit (16 Points)

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

Circuit Configuration



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



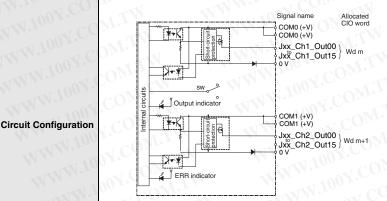
- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- The signal names of the terminals are the device variable names.

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.

W.100X.COM.TW CJ1W-OD232 Transistor Output Unit (32 Points)

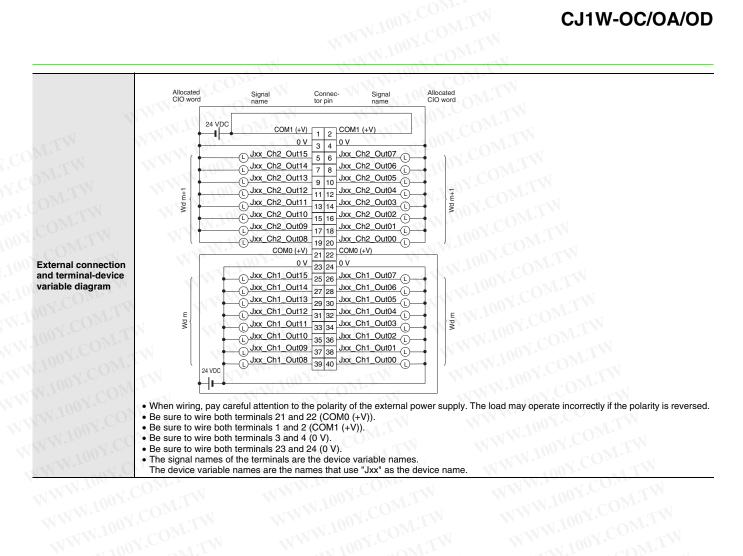
	O WW ODOGO		
Rated Voltage 2	CJ1W-OD232		
riated voitage	24 VDC		
Operating Load Voltage Range	20.4 to 26.4 VDC		
Maximum Load Current	0.5 A/point, 2.0 A/common, 4.0 A/Unit		
Leakage Current 0	0.1 mA max.		
Residual Voltage 1	1.5 V max.		
ON Response Time	0.5 ms max.		
OFF Response Time 1	1.0 ms max.		
	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.		
Insulation Resistance 2	$20~{ m M}\Omega$ between the external terminals and the GR terminal (100 VDC)		
Dielectric Strength 1	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 3	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 None		



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

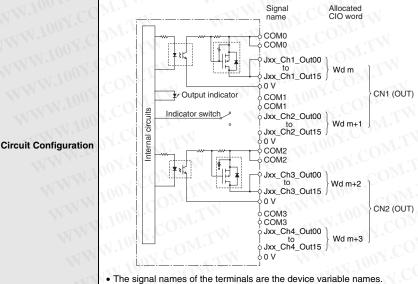
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CJ1W-OD262 Transistor Output Unit (64 Points)

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
VW.100Y.	Signal Allocated name CIO word
	COM0 COM0
	THE CONTROL OF CONTROL

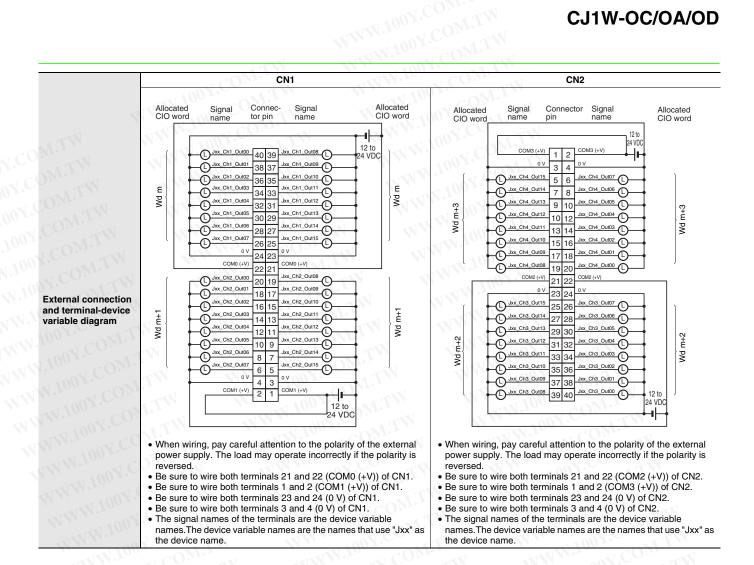


The device variable names are the names that use "Jxx" as the device name.

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Bit Allocations for Output Unit

8-point Output Unit

Allocated CIO word		Ci (O I/N I)
CIO	Bit	Signal name (CJ/NJ)
W.T.V.	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
	TINN I	ZI CONT.
	06	OUT6/Jxx_Ch1_Out06
Wd m	07	OUT7/Jxx_Ch1_Out07
(Output)	08	CONF
	09	1002.
	W.W.	TVI CO
	14	Tro CGM.
	15	1100Y MITY

32-point Output Unit

Allocated CIO word		Signal name (CJ/NJ)	
CIO	Bit	Signal fiame (CO/NO)	
	00	OUT0/Jxx_Ch1_Out00	
M.Co.	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	: :	MAN CO	
(Guipai)	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
Too	00	OUT0/Jxx_Ch2_Out00	
1.1.00	01	OUT1/Jxx_Ch2_Out01	
Wd m+1 (Output)		MAN TOOX	
(Gatpat)	14	OUT14/Jxx_Ch2_Out14	
	15	OUT15/Jxx_Ch2_Out15	

16-point Output Unit

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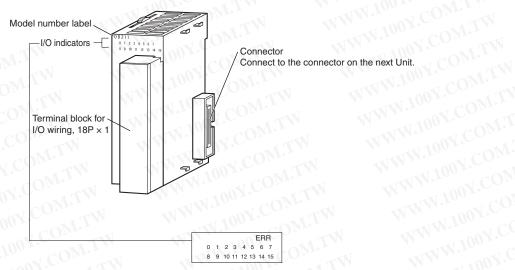
ed CIO word	0:(0.1/N.1)
Bit	Signal name (CJ/NJ)
00	OUT0/Jxx_Ch1_Out00
01	OUT1/Jxx_Ch1_Out01
O THE	:
14	OUT14/Jxx_Ch1_Out1
15	OUT15/Jxx_Ch1_Out1
COM.TW	
	Bit 00 01 : 14

WW.100Y.COM.TW Y.COM.TW **64-point Output Unit**

(CJ/NJ)	Allocated	Signal name (CJ/NJ)	
C3/N3)	CIO	Bit	Signal fiame (CO/NO)
_Out00	With	00	OUT0/Jxx_Ch1_Out00
_Out01		01	OUT1/Jxx_Ch1_Out01
	Wd m (Output)	M. COP.	: W
1_Out14	(Output)	14	OUT14/Jxx_Ch1_Out14
1_Out15		15	OUT15/Jxx_Ch1_Out15
_Out00		00 (C)	OUT0/Jxx_Ch2_Out00
_Out01		01	OUT1/Jxx_Ch2_Out01
OUN.CO.	Wd m+1 (Output)	1007.0	TITI
2_Out14	(Output)	14	OUT14/Jxx_Ch2_Out14
2_Out15		15	OUT15/Jxx_Ch2_Out15
· CO	WT.	00	OUT0/Jxx_Ch3_Out00
		01	OUT1/Jxx_Ch3_Out01
	Wd m+2 (Output)	W : 1003	TOM:
	(Output)	14	OUT14/Jxx_Ch3_Out14
		15	OUT15/Jxx_Ch3_Out15
1007	.C. TIN	00	OUT0/Jxx_Ch4_Out00
		01	OUT1/Jxx_Ch4_Out01
	Wd m+3 (Output)	:	COMP
	(Output)	14	OUT14/Jxx_Ch4_Out14
		15	OUT15/Jxx_Ch4_Out15

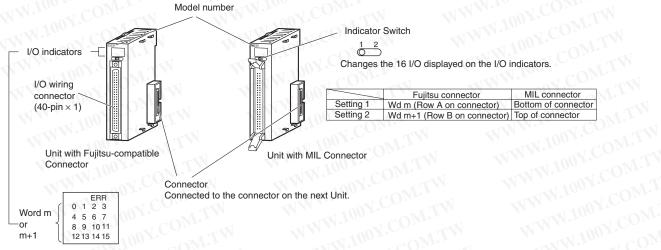
External Interface

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



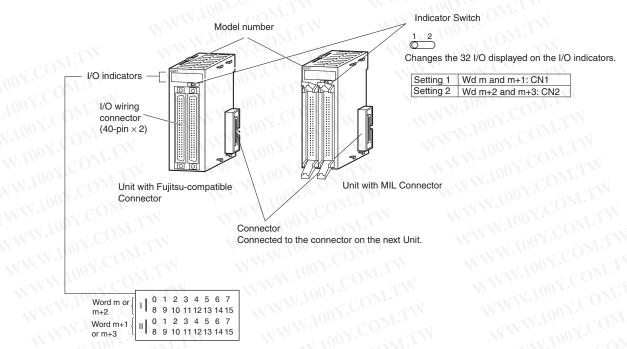
Note: The CJ1W-OD202, CJ1W-OD204, and CJ1W-OD212 also have an ERR indicator for the load short-circuit alarm.

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)

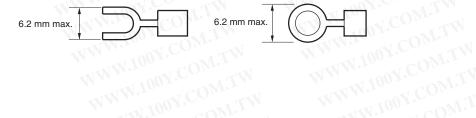


Wiring Basic I/O Units with Terminal Blocks

Electric Wires

Terminal Block Connecte	or Wire Size
18-terminal	AWG 22 to 18 (0.32 to 0.82 mm ²

Crimp terminals

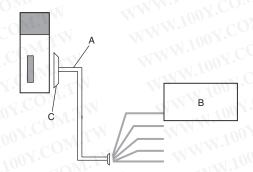


I/O Unit Wiring Methods

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.

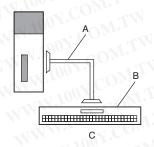


Α	User-provided cable
В	External device
C	Connector
- 1	

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 makes it easy to connect external devices.

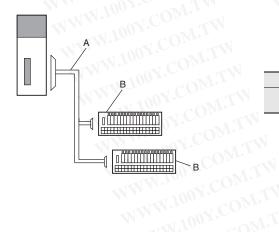


Α	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2□
C	Conversion to a screw terminal block

3. I/O Relay Terminal

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

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



Α	G79 I/O Relay Terminal Connecting Cable
В	G7□□ I/O Relay Terminals Or, conversion to relay outputs and AC inputs.
	WW.100X.COM.TW

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	1007.
CJ1W-OD262	Transistor Output Unit with sourcing outputs, 64 outputs	· COMP.
CJ1W-OD233 CJ1W-OD234	Transistor Output Unit with sinking outputs, 32 outputs	40
CJ1W-OD263	Transistor Output Unit with sinking outputs, 64 outputs	M.100.

Applicable Cable-side Connectors

Connection	Pins	OMRON set	DDK parts
Pressure-welded	40	XG4M-4030-T	FRC5-A040-3T0S

Wire Size

We recommend using cable with wire gauges of AWG 24 or AWG 28 (0.2 mm² to 0.08 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 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 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 crimping tools for MIL connectors. Tools for Crimped Connectors (OMRON)

	Product Name	Model	W 1.
Crimping Tool	COM	XY2B-0002	WWW.
Attachment	M. 21 100 F. OW. I.	XY2B-1007	M.100
	WWW.TOOX.COM.TW	WW.100X.COM.TW	M.1. 100.

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units

Pattern	Configuration	Number of Connectors	Branching
VLTW ALTW OM.TW COM.TW	Connecting Cable Connector-Terminal Block Conversion Unit 40 or 60 terminals	TN TW ATW ATW	None
L.COM.TW N.COM.TW BY.COM.TW 100Y.COM.TW 100Y.COM.TW	Connecting Cable with two branches Connector-Terminal Block Conversion Unit 20 terminals	COM.TW COM.TW COM.TW V.COM.TW V.COM.TW	2 branches
W.100Y.COM. W.100Y.COM. W.100Y.COM.	Connecting Cable Connector-Terminal Block Conversion Unit 40 or 60 terminals Connector-Terminal Block Conversion Unit	AN 100X CON 100X COM 100X COM I	None
MMM.1002 MMM.1002 MMM.1002 MMM.1003	Connecting Cable with two branches Connector-Terminal Block Conversion Unit 20 terminals 20 terminals 20 terminals	M.M.M.100X.C.	2 branches

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

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Number of branches	Connecting Cable	Connector-Terminal Block Conversion Unit	Commor
W	10.4	M.Co		A	None	XW2Z-□□□B	XW2D-40G6	None
	WW.IV	OM.	-XXI	Α	None	XW2Z-□□□B	XW2B-40G5	None
	1	00x.	1.11	Α	None	XW2Z-□□□B	XW2B-40G4	None
	WWW.	CO.	TW.	A	None	XW2Z-□□□BU	XW2D-40C6	None
J1W-OD231	32 outputs	1 Fujitsu connector	NPN	В	2	XW2Z-□□□L	XW2D-20G6 (2 Units)	None
	1/1/1	Connector	MTN	В	2	XW2Z-□□□L	XW2B-20G5 (2 Units)	None
		. CC	- 17	В	2	XW2Z-□□□L	XW2B-20G4 (2 Units)	None
	- N	W.100	OM_{r_x}	В	2	XW2Z-□□□L	XW2C-20G6-IO16 (2 Units)	Yes
	MAN	-100X.C	~117	В	2	XW2Z-□□□L	XW2F-20G7-OUT16 (2 Units)	Yes
			COP	Α	None	XW2Z-□□□K	XW2D-40G6	None
		TW.100	MOD	Α	None	XW2Z-□□□K	XW2B-40G5	None
		M. 1007		Α	None	XW2Z-□□□K	XW2B-40G4	None
HW 0000	00 1 1		PNP	В	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
J1W-OD232	32 outputs	1 MIL connector		В	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
		WWW	M.Co	В	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
		TWW.I	~√ C	В	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
		11	$0_{0.x}$	В	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes

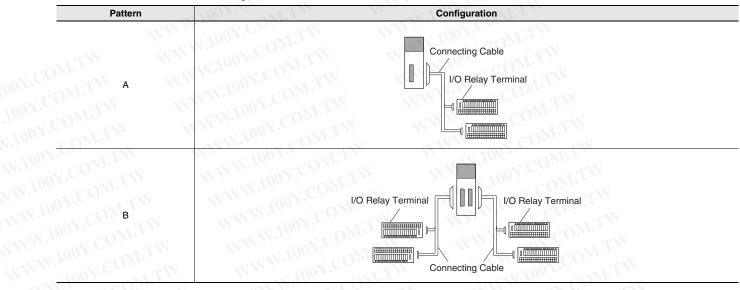
	I/O	Number of	TW	Connection	Number of	T.COVETA	Connector-Terminal Block	Commo
Unit	capacity	connectors	Polarity	pattern	branches	Connecting Cable	Conversion Unit	termina
		TO V	1. ·	Α	None	XW2Z-□□□K	XW2D-40G6	None
	M. A.	1007.	N.J.M	Α	None	XW2Z-□□□K	XW2B-40G5	None
	WWW	. OUX.CO		Α	None	XW2Z-□□□K	XW2B-40G4	None
C HW ODggg	20 autouta	1 MIL connector	NPN	В	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
CJ1W-OD233	32 outputs	1 MIL connector	INPIN	В	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
	WW	W. COV.	On	В	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
		VW.100	COM	В	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
	W	1001		В	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes
COMP	*1	MM.	1.COP	A	None	XW2Z-□□□K	XW2D-40G6	None
		-T.W.100	- cO	Α	None	XW2Z-□□□K	XW2B-40G5	None
	4	MM 100	N.C.	Α	None	XW2Z-□□□K	XW2B-40G4	None
O HIM ODOOA	100	4 840	NPN	В	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
CJ1W-OD234	32 outputs	1 MIL connector	INPIN	В	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
	W	MM	OOY.	В	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
	-31	TWW.		В	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
	II.	111	100 7	В	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes
ON CO	W.	WW	400	D	None	XW2Z-□□□B	XW2D-40G6	None
	1.1	TXX	N.To.	D COMP.	None	XW2Z-□□□B	XW2B-40G5	None
	TIM	10.4.	TX 10	D	None	XW2Z-□□□B	XW2B-40G4	None
	TW	WV	111.	D	None	XW2Z-□□□BU	XW2D-40C6	None
CJ1W-OD261	64 outputs	2 Fujitsu connectors	NPN	F	2	XW2Z-□□□L	XW2D-20G6 (2 Units)	None
	TIME	CONTICCIONS	-31	F	2	XW2Z-□□□L	XW2B-20G5 (2 Units)	None
	0_{Mr}	N v	$1M_{M_0}$	F	2	XW2Z-□□□L	XW2B-20G4 (2 Units)	None
	COM'I			F	2	XW2Z-□□□L	XW2C-20G6-IO16 (2 Units)	Yes
			MAL.	F1007	2	XW2Z-□□□L	XW2F-20G7-OUT16 (2 Units)	Yes
TINN.IO	4 CO $_{M_{P}}$	-N	47/1/1/	D	None	XW2Z-□□□K	XW2D-40G6	None
	Mon	7.		D	None	XW2Z-□□□K	XW2B-40G5	None
	Y.Co.	WT		D 100	None	XW2Z-□□□K	XW2B-40G4	None
O HAW ODOGO	ο ₄ 1.CΩ	2 MIL	DND	F	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
CJ1W-OD262	64 outputs	connectors	PNP	F 10	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
	Jany.Cu	WT		F	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
	100	OM.		F	2 (0	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
	1007.	MITW		F	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes
WWW		W		D	None	XW2Z-□□□K	XW2D-40G6	None
	W.100.	COM.	r	D	None	XW2Z-□□□K	XW2B-40G5	None
	1007	VILIA		D	None	XW2Z-□□□K	XW2B-40G4	None
O HIM ODGGG	04 511 10	2 MIL	Nov	F	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
CJ1W-OD263	64 outputs	connectors	NPN	F	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
	11 11	OX.CO		F	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
	MMI	COM.	- N	F	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
	1	001.	11 11	F	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes

Types of Connecting Cables

Cable length	XW2Z-□□B	XW2Z-□□BU	XW2Z-□□L	XW2Z-□□K	XW2Z-□□N
0.25m	ON TOTAL	- WT	1/1/1 - 100 X'C	XW2Z-C25K	7/17
0.5m	XW2Z-050B	XW2Z-050BU	TIMIN -	XW2Z-C50K	MININE
1.0m	XW2Z-100B	XW2Z-100BU	XW2Z-100L	XW2Z-100K	XW2Z-100N
1.5m	XW2Z-150B	XW2Z-150BU	XW2Z-150L	XW2Z-150K	XW2Z-150N
2.0m	XW2Z-200B	XW2Z-200BU	XW2Z-200L	XW2Z-200K	XW2Z-200N
3.0m	XW2Z-300B	XW2Z-300BU	XW2Z-300L	XW2Z-300K	XW2Z-300N
5.0m	XW2Z-500B	XW2Z-500BU	XW2Z-500L	XW2Z-500K	XW2Z-500N
10.0m	XW2Z-010B	COMP	XW2Z-010L	CONE	XW2Z-010N
15.0m	XW2Z-15MB	W. T. TW	XW2Z-15ML	100 J. O. W. J. J. A.	XW2Z-15MN
20.0m	XW2Z-20MB	COL	XW2Z-20ML	OV.CO-	XW2Z-20MN

3. Connecting I/O Relay Terminals

Connection Patterns for I/O Relay Terminals



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

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Number of branches	Connecting Cable	I/O Relay Terminal
1007.0	TIM	W.	1001.	Α	2	G79-O□C-□	G7TC-OC16
CJ1W-OD231	OM	1 Fujitsu connector	NPN	Α	2	G79-O□C-□	G7TC-OC08
	COM:			A	2	G79-O□C-□	G70D-SOC16
	TI			Α	2	G79-O□C-□	G70D-FOM16
	32 outputs			A	2	G79-O□C-□	G70D-VSOC16
	"MOD			A	2	G79-O□C-□	G70D-VFOM16
	Y.COM.			Α	2	G79-O□C-□	G70A-ZOC16-3 and Relay
				A CON	2	G79-O□C-□	G70R-SOC08
	101.			A	2	G79-O□C-□	G70D-SOC08
	OUX.CO	WT		Α	2	G79-I□-□-D1	G7TC-OC16-1
CJ1W-OD232	32 outputs	1 MIL connector	PNP	Α	2	G79-O□-□-D1	G70D-SOC16-1
	32 Outputs			A	2	G79-O□-□-D1	G70D-FOM16-1
WWW	· CV.C	W		Α	2	G79-O□-□-D1	G70A-ZOC16-4 and Relay
-11	1.100	OM.		Α	2	G79-O□-□-D1	G7TC-OC16
	-1100 X.V	MITW	111	A 1003	2	G79-O□-□-D1	G7TC-OC08
	32 outputs	1 MIL connector	NPN	Α	2	G79-O□-□-D1	G70D-SOC16
				A	2	G79-O□-□-D1	G70D-FOM16
CJ1W-OD233				A	2	G79-O□-□-D1	G70D-VSOC16
	WW.			Α	2	G79-O□-□-D1	G70D-VFOM16
	10 10 10 I	COMIT		A	2	G79-O□-□-D1	G70A-ZOC16-3 and Relay
	NN .	OY.CO TY		Α	2	G79-O□-□-D1	G70R-SOC08
		COM		A	2	G79-O□-□-D1	G70D-SOC08
CJ1W-OD234	NY TAN	100 r. CON'T.		Α	2	G79-O□-□-D1	G7TC-OC16
	MM	1007.CO		Α	2	G79-O□-□-D1	G7TC-OC08
	TWW.	Y TOOX CONT.	TW	Α	2	G79-O□-□-D1	G70D-SOC16
	1111			Α	2	G79-O□-□-D1	G70D-FOM16
	32 outputs	1 MIL connector	NPN	A	2	G79-O□-□-D1	G70D-VSOC16
		M.Ing -1 COV		Α	2	G79-O□-□-D1	G70D-VFOM16
	N.	W 100Y.	M.T.W	Α	2	G79-O□-□-D1	G70A-ZOC16-3 and Relay
	N.	MAI.	TW	A	2	G79-O□-□-D1	G70R-SOC08
		W.100	M.r.	Α	2	G79-O□-□-D1	G70D-SOC08

		W.	1	MW.100	M.COM	TW TY	
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Number of branches	Connecting Cable	I/O Relay Termin
	T. WW.	COM	N.	В	2	G79-O□C-□	G7TC-OC16
		001. OM.T.	N.	В	2	G79-O□C-□	G7TC-OC08
	64 outputs	2 Fujitsu connectors	NPN	В	2	G79-O□C-□	G70D-SOC16
				В	2	G79-O□C-□	G70D-FOM16
CJ1W-OD261				В	2	G79-O□C-□	G70D-VSOC16
	WW	N. CON.	W.	В	2	G79-O□C-□	G70D-VFOM16
	1	W.100 - COI	11.	В	2	G79-O□C-□	G70A-ZOC16-3 and Rela
	11/1/	1007.	TI	В	2	G79-O□C-□	G70R-SOC08
	XXI'	MM. T. CO	W	В	2	G79-O□C-□	G70D-SOC08
COM:		W.100	J.M.	В	2	G79-I□-□-D1	G7TC-OC16-1
CJ1W-OD262	64 outputs	2 MIL connectors	PNP	В	2	G79-O□-□-D1	G70D-SOC16-1
CJTW-OD262				В	2	G79-O□-□-D1	G70D-FOM16-1
				В	2	G79-O□-□-D1	G70A-ZOC16-4 and Rela
ON.COM.	TW	MM	.0	В	2	G79-O□-□-D1	G7TC-OC16
		WW.10	A COM.	В	2	G79-O□-□-D1	G7TC-OC08
	CL.	W 100	Mon	В	2	G79-O□-□-D1	G70D-SOC16
CJ1W-OD263	WT	2 MIL connectors	NPN	В	2	G79-O□-□-D1	G70D-FOM16
	64 outputs			В	2	G79-O□-□-D1	G70D-VSOC16
	MIN	W Tax 1	00_{J} .	В	2	G79-O□-□-D1	G70D-VFOM16
	TW	MM	. NOY.CO	В	2	G79-O□-□-D1	G70A-ZOC16-3 and Rela
	OM.	WW	700 ×1 C	В	2	G79-O□-□-D1	G70R-SOC08
	TIN	M. A.	1 100 X.	В	2	G79-O□-□-D1	G70D-SOC08

Types of Connecting Cables

Cable length	G79-O□C-□	G79-O□-□-D1	G79-I□-□-D1
0.25m	DAY THE THE PARTY OF THE PARTY	COM TW - W	M. ON.CO TA
0.5m	OM: I'V	G79-O50-25-D1	G79-I50-25-D1
1.0m	G79-O100C-75	G79-O75-50-D1	G79-I75-50-D1
1.5m	G79-O150C-125	T CONT	MA W. CO. TAN
2.0m	G79-O200C-175	1100 - CONT. I.	M. Inc. COM.
3.0m	G79-O300C-275	T-W	W 100x - TIM
5.0m	G79-O500C-475	M. COMP AL	TAIN ST COM

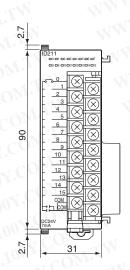
WWW.100Y.COM.TW

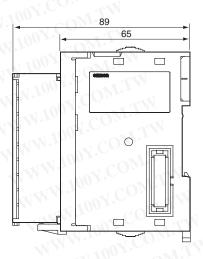
Dimensions (Unit: mm)

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

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



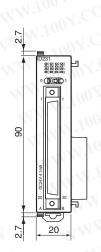


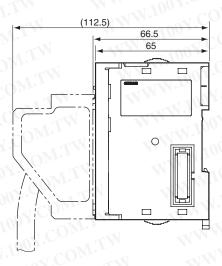


32-point Unit (Output Units)

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

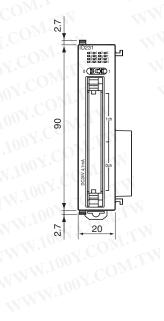


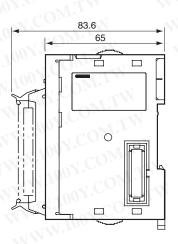




With MIL Connector (40-pin \times 1) CJ1W-OD232 / OD233 / OD234



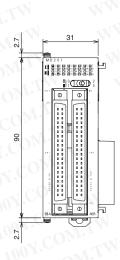


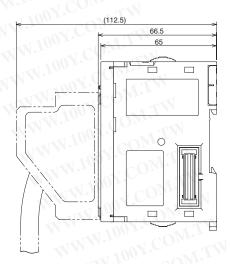


64-point Units (Output Units)

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

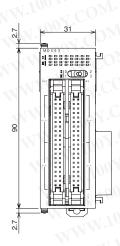


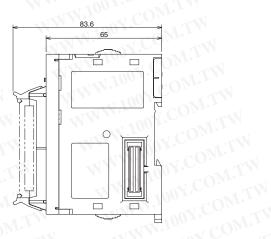




With MIL Connector (40-pin \times 2) CJ1W-OD262 / OD263







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).		
		OMRON		

N.100Y.COM.TW

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100v.com.tw

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

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In the interest of product improvement, specifications are subject to change without notice.

