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

CSM_CJ1W-OUTPUT_DS_E_8_10

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

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



CJ1W-OD213



CJ1W-OD234

Features

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

Ordering Information

International Standards

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

Output Units

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

Accessories

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

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

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

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

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

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

Applicable Connector-Terminal Block Conversion Units

		Number of	Number of	Wiring	Terminal		Size			nting	Common			
Гуре	Series	connector poles	terminal block poles	method	type	Depth (mm)	Height (mm)	Width (mm)		Screws	terminals	I/O Units	Model*	Standard
				Push-In Plus								CJ1W-OD231 CJ1W-OD261	XW2K-40G-032B	
	XW2K	40	36		Spring	75	39	40.8			No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2K-40G-032C	
	XVV2N											CJ1W-OD231 CJ1W-OD261	XW2K-40G-032B-OUT	
		40	68	Push-In Plus	Spring	124	39	40.8			Yes	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2K-40G-032C-OUT	
LCs				Phillips screw					Yes			CJ1W-OD231 CJ1W-OD261	XW2R-J34GD-C3	
	XW2R	40	34		МЗ	130.7	50	48.05			No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-J34GD-C4	
	AW2R			Slotted screw								CJ1W-OD231 CJ1W-OD261	XW2R-E34GD-C3	
		40	34	(rise 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 series catalog (Cat. No. G077).

Connecting Cables for Connector-Terminal Block Conversion Units

Appearance	Connectors	Cable lenght [m]	Model
XW2Z-		0.5	XW2Z-050B
		1	XW2Z-100B
		1.5	XW2Z-150B
	One 40-pin Fujitsu Connector to One 40-pin MIL Connector	2	XW2Z-200B
		3	XW2Z-300B
		5	XW2Z-500B
XW2Z-DDK		0.5	XW2Z-C50K
		1	XW2Z-100K
		1.5	XW2Z-150K
	One 40-pin MIL Connector to One 40-pin MIL Connector	2	XW2Z-200K
		3	XW2Z-300K
		5	XW2Z-500K

CJ1W-OC/OA/OD

	Jie I/O nelay			S	pecifications	;		Size (hor	izontal m	ounting)	Mou	nting		
Туре	Series	Classi	ification	Polarity	Number of points	Rated ON current at contacts	Rated voltage	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standards
				NPN									G70V-SID16P *4	
		Innuto	DC	PNP	16	50 mA							G70V-SID16P-1 *4	-
Push-In	G70V	Inputs	inputs	NPN	$(\text{SPSTNO} \times 16)$	50 mA							G70V-SID16P-C16 *5	
Plus				PNP			24 VDC	143	90	56	Yes	Yes	G70V-SID16P-1-C16 *5	UC, CE (TÜV
terminal block				NPN		6 A/point, 10 A/	21100	140	30	50	103	163	G70V-SOC16P *4	certified)
DIOCK		Outputs	Relay	PNP	16								G70V-SOC16P-1 *4	-
		ouputo	outputs	NPN	(SPDT × 16)	common							G70V-SOC16P-C4 *6	
				PNP									G70V-SOC16P-1-C4 *6	
			AC				100/(110) VAC						G7TC-IA16 AC100/110	-
			inputs	-	16		200/(220) VAC						G7TC-IA16 AC200/220	-
		Inputs	DC	NPN	(SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12	-
	G7TC		inputs				24 VDC						G7TC-ID16 DC24	-
							100/110 VDC		-				G7TC-ID16 DC100/110	-
Standard	Station .				8		12 VDC	102	85	68	Yes	No	G7TC-OC08 DC12	U, C
	2 martin			NPN	(SPSTNO × 8)		24 VDC		-				G7TC-OC08 DC24	-
			Relay		16 (SPSTNO × 16)	5A	12 VDC	182				G7TC-OC16 DC12		
			outputs		. ,		24 VDC						G7TC-OC16 DC24	-
				PNP	16 (CDCTNO + 16)		12 VDC						G7TC-OC16-1 DC12	-
					(SPSTNO × 16)		24 VDC						G7TC-OC16-1 DC24	
High-	G70A *1 (Socket only)	Inputs	Relay inputs	NPN/ PNP	16 (SPDT × 16	100 mA	110 VDC max., 240 VAC max. *2						G70A-ZOC16-5	U, C, CE
capacity socket		Outputs	Relay	NPN	possible with G2R Relays)		24 VDC	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)
		ouiputo	outputs	PNP									G70A-ZOC16-4	
	Vertical type G70D-V		Relay outputs			5 A or 3 A *3							G70D-VSOC16	U, C, CE
			MOSFET relay outputs	NPN	16 (SPSTNO × 16)	0.3 A		135	46	81	Yes	Yes	G70D-VFOM16	(VDE certified)
Space-	Flat type G70D	Outputs		NPN	8 (SPSTNO × 8)	5 A	24 VDC	68	93	44			G70D-SOC08	
saving	minut		Relay outputs	NPN	16 (SPSTNO × 16)	3 A							G70D-SOC16	
				PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	-
			MOSFET	NPN	16								G70D-FOM16	-
	1		relay outputs	PNP	(SPSTNO × 16)	0.3 A							G70D-FOM16-1 *7	-
High	G70R													
High- capacity, space- saving		Outputs	Relay outputs	NPN	8 (SPSTNO×8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08 *7	-

Applicable I/O Relay Terminals

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

*2. Each relay to be mounted must incorporate a coil that has proper specifications within the maximum rated voltage range.
*3. Eight or fewer points ON: 5 A, Nine or more points ON: 3 A.

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

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

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

 *7. Product no longer available to order.
 Note: 1. For the combination of Input Units with I/O Relay Terminal and Connecting Cables, refer to 3. Connecting I/O Relay Terminals. 2. Please refer to each Datasheet about details.

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

Cables for I/O Relay Terminals

Туре	Name	I/O Classification	Appearance	Cable length	ո L (mm)	Models
			A side B side	1,000)	XW2Z-R100C
	Cables with Connectors		Device end I/O Relay Terminal	1,500	D	XW2Z-R150C
ujitsu connectors (24 pins)	(1:1)	16 I/O points		2,000)	XW2Z-R200C
	XW2Z-R□C			3,000	0	XW2Z-R300C
			←	5,000	C	XW2Z-R500C
			A side B side	(A) 1,000	(B) 750	XW2Z-RI100C-75
		32 input points	Device end I/O Relay Terminal	(A) 1,500	(B) 1,250	XW2Z-RI150C-125
			(A) →	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
Fujitsu connectors (40 pins)	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
			╢╞┻╦┯┰┍╼╼╉╢╽	(A) 1,000	(B) 750	XW2Z-RO100C-75
	XW2Z-RI□C-□ XW2Z-RO□C-□			(A) 1,500	(B) 1,250	XW2Z-RO150C-125
		32 output points			(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	250		XW2Z-RI25C
(00 min c)	(1:1)	16 I/O points	Device end I/O Relay Terminal	500		XW2Z-RI50C
IIL connectors (20 pins)	XW2Z-RI□C XW2Z-RO□C			250		XW2Z-RO25C
				500		XW2Z-RO50C
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-R075-50-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) →		(B) 1,750	XW2Z-RO200-175-D1
	Cables with Connectors				(B) 2,750	XW2Z-RO300-275-D1
III. eennestere (40 niv-)	(1:2)	20 1/O mainta		(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
IIL connectors (40 pins)	XW2Z-RO□-□-D1,	32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
	XW2Z-R0⊡-⊡-D1, XW2Z-RI⊡-⊡-D1			(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)		(B) 1,750	XW2Z-RI200-175-D1
				(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
			1 1	(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	system	CJ system	n (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							
CJ1W-OD201							
CJ1W-OD203							
CJ1W-OD211							
CJ1W-OD213		10 Units (Per Expansion	10 Units				10 Units (Per Expansion Backplane)
CJ1W-OD231				10 Units (Per Expansion Backplane)	Not Supported		
CJ1W-OD233	10 Units					Not Supported	
CJ1W-OD234		Rack)					
CJ1W-OD261							
CJ1W-OD263							
CJ1W-OD202							
CJ1W-OD204							
CJ1W-OD212							
CJ1W-OD232							
CJ1W-OD262					1		

Product no longer available to order.

Specifications

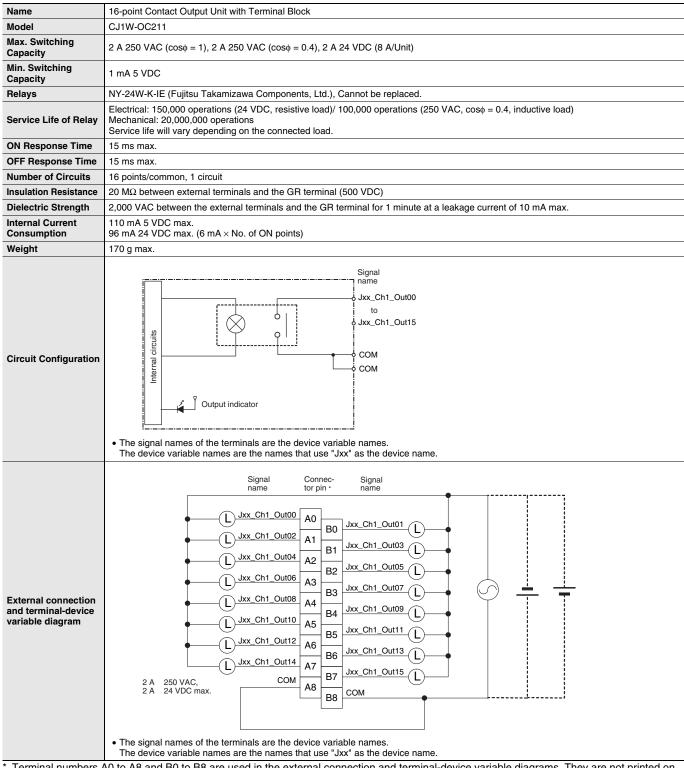
CJ1W-OC201 Contact Output Unit (Independent Relays, 8 Points)

Name	8-point Contact Output Unit with Terminal Block (Independent Relays)								
Model	CJ1W-OC201								
Max. Switching Capacity	2 A 250 VAC (cosφ = 1), 2 A 250 VAC (cosφ = 0.4), 2 A 24 VDC (16 A/Unit)								
Min. Switching Capacity	1 mA 5 VDC								
Relays	NY-24W-K-IE (Fujitsu Takamizawa Components, Ltd.), Cannot be replaced.								
Service Life of Relay	Electrical: 150,000 operations (24 VDC, resistive load)/100,000 operations (240 VAC, cos								
ON Response Time	15 ms max.								
OFF Response Time	15 ms max.								
Number of Circuits	8 independent contacts								
Insulation Resistance	$0 M\Omega$ between external terminals and the GR terminal (500 VDC)								
Dielectric Strength	,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.								
Internal Current Consumption	0 mA 5 VDC max. 8 mA 24 VDC max. (6 mA × No. of ON points)								
Weight	140 g max.								
Circuit Configuration	Signal name Jxx_Ch1_Out00 Jxx_Ch1_Out00 Jxx_Ch1_Out00 Jxx_Ch1_Out00 - The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.								
External connection and terminal-device variable diagram	Signal name Connector pint Signal name Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image								

* 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)

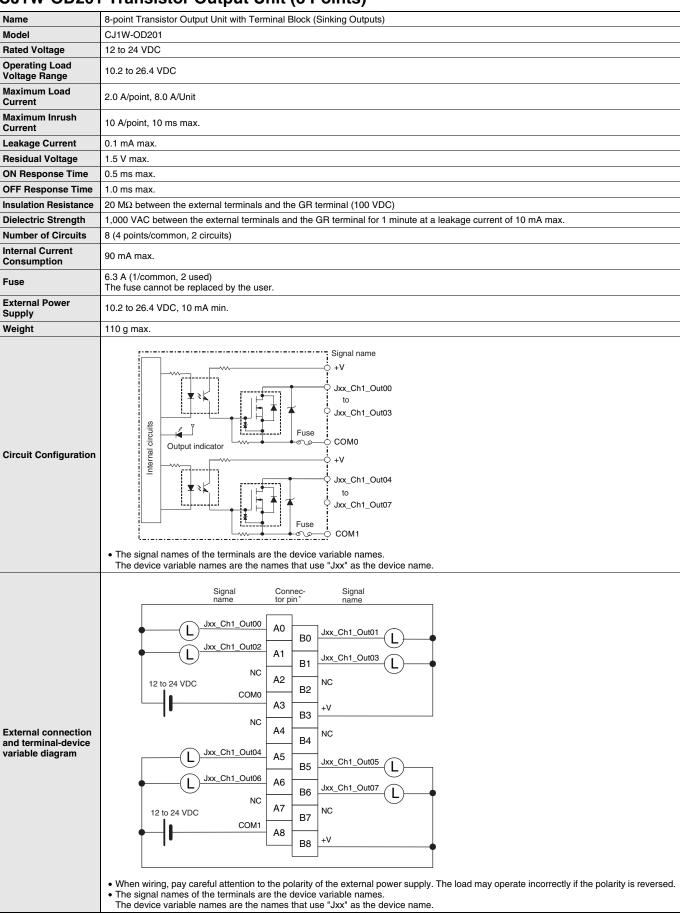


Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OA201 Triac Output Unit (8 Points)

Name B-point Trice Output Unit with Terminal Block Model CultW-Ox01 Max. Switching 0.6 A 250 VAC, 50/80 Hz (2.4 AUnit) Max. Switching 0.6 A 250 VAC, 50/80 Hz (2.4 AUnit) Max. Switching 0.6 A 250 VAC, 50/80 Hz (2.4 AUnit) Max. Further Current 15 A (pulse width: 10 ms max.) Min. Switching 15 mA (pulse width: 10 ms max.) Residual Voltage 15 mA (pulse width: 10 ms max.) ON Response Time 1 mm max. OFF Response Time 1 mm max. OFF Response Time 1 mm max. Surge Protector C R Absorber Fuses The last deregency + 1 ms or less. Number of Circuits 8 (# points/common.1 used) The user on the external terminals and the GR terminal (500 VDC) Distriction Resistance 20 MX Detween the external terminals and the GR terminal (500 VDC) Distriction Resistance 20 MA max. Weight 150 g max. External configuration 150 g max. External configuration 0 d max. Iternal Current Signal Iternal Current 150 g max.									
Nax. Switching copacity 0.6 A 250 VAC, 50/60 Hz (2:4 AUnit) Max. Inrush Current 15 A (puble width: 10 ms max.) Som A 75 VAC copacity 50 mA 75 VAC Besidual Voltage Correct 1.5 MA (200 VAC) max. Residual Voltage Correct 1.5 MA (200 VAC) max. Residual Voltage Correct 1.6 VAC max. ON Response Ture 1 ms max. ON Response Ture 1 ms max. Surge Protector C.R Absorber + Surge Absorber Fuses 5.A (London T, Liscal) Surge Protector 2.0 MA breacher is surge Absorber Lessentage 2.0 Ma breacher is explaced by the user. Insulation Resistance 2.0 Ma breacher is explaced by the user. Insulation Resistance 2.00 VAC 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. Veright 150 g max. Circuit Configuration 150 g max. External connection 11 mme NC Amg Min Signal Min Signal Min Signal Min Signal									
Capacity 00 A 200 VAC, 5000 VAC, 5000 VAC, 24 AULIN Mix. Invasi Current 15 A (pide with: 10 ms max.) Mix. Sinching 50 mA 75 VAC Leekage Current 15 mA (200 VAC) max. Residual Voltage 16 VAC max. OFF Response Time 1 as MAC max. OFF Response Time 12 al load frequency + 1 ms or less. Number of Circuits 8 (8 pointscommon, 1 data) Surge Protector 07 A Absofter - Surge Absofter Fues 5 A (1 forman, 1 data) Deleticits Etrange 200 M2 between the external terminals and the GR terminal (500 VDC) Deleticits Etrange 200 MA max. Polectics Torman, 1 data) 220 mA max. Veight 160 g max. Circuit Configuration 160 g max. Filteria Etrange Current of 10 g max. 10 g max. External connection on the case of the terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Veight 160 g max. External connection on the case of the terminals are the dwice variable names. The device variable names are the names that use 'Uxc' as the device name. No Ad Bit w. Chi O.000 L No Ad Bit w. Ch		CJ1W-OA201							
Image: Solitic Hing Copacity Sol nA 75 VAC Leakage Current 1.5 mA (200 VAC) max. Residual Voltage 1.6 VAC max. ON Response Time 12 of load frequency + 1 ms or less. Number of Circuits 8 (B points/common, 1 circuit) Surge Protector C.R Absorber + Surge Absorber Fuses 5.4 (1/common, 1 circuit) Surge Protector 2.00 M2 between the external terminals and the GR terminal (500 VDC) Delectric Stream be replaced by the user. 2.00 M2 between the external terminals and the GR terminal (500 VDC) Delectric Stream be replaced by the user. 2.00 M2 between the external terminals and the GR terminal (500 VDC) Delectric Stream be replaced by the user. 2.00 MA max. Veight 150 g max. Circuit Configuration 2.00 MA max. Veight 150 g max. External connection and terminals and the double variable name. No A 1 N		0.6 A 250 VAC, 50/60 Hz (2.4 A/Unit)							
Capacity 0 Min / 5 VAC Leskage Current 1.5 mk (200 VAC) max. Residual Vollage 1.6 VAC max. ON Response Time 1 m sm max. OR Response Time 1 m sm max. Number of Circuits 8 (8 points/common, 1 circuit) Surge Protector C.R Absorber + Surge Absorber Fuses 5.4 (150mnon, 1 used) Insulation Resident + Surge Absorber 2.000 VAC between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.00 m Amax. Veight 150 g max. Circuit Configuration 150 g max. Discource variable names are the names finat use "Jxx: as the device name. No Add to the final	Max. Inrush Current	A (pulse width: 10 ms max.)							
Residual Voitage 1.6 VAC max. ON Response Time 1.1 m max. OOF Response Time 12 of load frequency + 1 ms or less. Number of Circuits 8 (B points/common, 1 dicuit) Surge Protector C. A Boother + Surge Absorber Fuses 5 A (ficommon, 1 used) The tase cannot be replaced by the user. Insultation Resistance 20 ML between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Weight 150 g max. Circuit Configuration 200 mA max. Weight 150 g max. External connection 200 mA max. Weight 150 g max. Circuit Configuration Image and the terminals are the device variable names. The device variable names. No A		50 mA 75 VAC							
ON Response Time 1 ms max. OFF Response Time 112 of load frequency + 1 ms or less. Number of Circuit 8 (8 pointscommon, 1 circuit) Surge Protector C. R Absorber + Surge Absorber Fuses 5 A (1/common, 1 used) Insultation Resistance 20 MG between the external terminals and the GR terminal (600 VDC) Delectric Strengt 2000 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. Veight 150 g max. Circuit Configuration Image 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 No No A	Leakage Current	1.5 mA (200 VAC) max.							
OFF Response Time 1/2 of load frequency + 1 ms or less. Number of Circuits 8 (# points/common, 1 dircuit) Surge Protector C.R.Absorber + Surge Absorber Fuese 5.6 (1/common, 1 dircuit) Insulation Resistance 20 ML between the external terminals and the GR terminal (600 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (600 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (600 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (600 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (600 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (600 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal (600 VDC) Circuit Configuration 150 g max. Circuit Configuration	Residual Voltage	1.6 VAC max.							
Number of Circuits 8 (8 points/common, 1 circuit) Surge Protector C.R Absorber + Surge Absorber Fuese SA (frommon, 1 used) The fuse cannot be replaced by the user. Insulation Restance 20 MQ between the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Consumption 220 mA max. Weight 150 g max. Circuit Configuration	ON Response Time	1 ms max.							
Surge Protector C.R. Absorber + Surge Absorber Fuses 5.A (1/cormon, 1 used) The lusc cannot be replaced by the user. Insulation Resistance 20 M2 between the external terminals and the GR terminal (500 VDC) Dielectric Strength 2.000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Internal Current Consumption 220 mA max. Weight 150 g max. Circuit Configuration Image: Consumption terminals are the device variable names. The device variable names are the terminals are the device variable names. The device variable names are the names that use "Jox" as the device name. External connection and terminal-device variable diagram No Aa Ba Jox Ch1_Out00 Jox Ch1_Out00 No Aa Ba Jox Ch1_Out00 Image: Jox Ch1_Out00 Jox Ch1_Out00 <td< th=""><th>OFF Response Time</th><th>1/2 of load frequency + 1 ms or less.</th></td<>	OFF Response Time	1/2 of load frequency + 1 ms or less.							
Fuses SA (1/common, 1 used) The fuse cannot be replaced by the user. Insulation Resistance 20 ML Detween the external terminals and the GR terminal (500 VDC) Delectric Strength 2.000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 20 mL Detween the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Weight 150 g max. Circuit Configuration Image of the terminal of the terminals are the device variable names. The device variable names are the names that use "Joc" as the device name. External connection and terminal-device variable diagram No An Bit down of the terminals are the device variable name. The device variable names are the names that use "Joc" as the device name. External connection and terminal-device variable diagram No An Bit dwc.chi.Outof 250 VAC max. No An Bit dwc.chi.Outof Connection name Signal dwc.chi.Outof Connection figure Signal dwc.chi.Outof Connection figure No An Bit dwc.chi.Outof Connection figure Signal dwc.chi.Outof Connection figure Signal dwc.chi.Outof Connection figure Signal dwc.chi.Outof Connection figure Signal dwc.chi.Outof Connection figure Signal dwc.chi.Outof Connection figure									
Fuese The fuse cannot be replaced by the user. Insulation Resistance 20 MG between the external terminals and the GR terminal (500 VDC) Delectric Strength 2:000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Vergint 150 g max. Gircuit Contiguration gignal Use of the terminal set of the terminal set the device variable names. The device variable names that use "Jxx" as the device name. External connection and terminal-device variable diagram No A0 B0 Jxx. Ch1_Out00 No A3 B3 Jxx. Ch1_Out03 Ch1_Out03 Ch1_Out03 Ch1_Out03 No A0 B0 Jxx. Ch1_Out03 Ch1_Out03 Ch1_Out03 Ch1_Out03 Ch1_Out03	Surge Protector								
Dielectric Strength 2.000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 220 mA max. 220 mA max. Weight 150 g max. Signal faither the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Circuit Configuration g g g g g g g Jox Ch1_Out00 Jox Ch1_Out00 Jox Ch1_Out00 NC A0 B0 Jox Ch1_Out00 Jox Ch1_Out00 NC A1 B1 Jox Ch1_Out00 Jox Ch1_Out00 <th>Fuses</th> <th></th>	Fuses								
Internal Current Consumption 220 mA max. Weight 150 g max. Circuit Configuration Image: Configuration Image: Circuit Configuration Image: Circuit Configuration Image: Circuit Configuration Image: Cir	Insulation Resistance	20 M Ω between the external terminals and the GR terminal (500 VDC)							
Consumption 220 mAx max. Weight 150 g max. Circuit Configuration Image: Consumption 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 NC NC A3 B3 Jxx. Ch1_Out00 Var. Ch1_Out02 Image: Connection of the terminal are the device variable names. The device variable names are the names that use "Jxx" as the device name.		2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.							
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Circuit Configuration Image: Circuit Configuration Image: Circuit Configuration Image: Circuit Configuration	Weight	150 g max.							
External connection and terminal-device variable diagram NC A5 B5 Jxx_Ch1_Out03 NC A5 B5 Jxx_Ch1_Out04 NC A5 B5 Jxx_Ch1_Out04 NC A5 B5 Jxx_Ch1_Out04 NC A5 B5 Jxx_Ch1_Out05 NC A5 B5 Jxx_Ch1_Out05 NC A5 B5 Jxx_Ch1_Out06 NC A5 B5 Jxx_Ch1_Out06 NC A5 B5 Jxx_Ch1_Out06 NC A5 B5 Jxx_Ch1_Out06 NC A5 B5 Jxx_Ch1_Out07 NC A6 B6 Jxx_Ch1_Out07 NC A7 B7 Jxx_Ch1_Out07 NC A8 B7 J	Circuit Configuration	• The signal names of the terminals are the device variable names.							
 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. 	and terminal-device	 tor pin * name NC A0 B0 Jxx_Ch1_Out00 L NC A2 B2 Jxx_Ch1_Out02 L NC A3 B3 Jxx_Ch1_Out03 L C A4 B4 Jxx_Ch1_Out04 L C A5 B5 Jxx_Ch1_Out06 L A6 B6 Jxx_Ch1_Out06 L NC A7 B7 COM • The signal names of the terminals are the device variable names.							

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units. Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.



CJ1W-OD201 Transistor Output Unit (8 Points)

* 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.

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 0.1 mA max. Leakage Current **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 100 mA max. Consumption Fuse None External Power 10.2 to 26.4 VDC, 20 mA min. Supply Weight 110 g max. Signal name Y Output indicator Internal circuits +V Jxx Ch1 Out00 Circuit Configuration to Jxx_Ch1_Out07 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 Connec Signal tor pin name L Jxx_Ch1_Out00 A0 Jxx_Ch1_Out01 BO A1 Jxx_Ch1_Out03 L Jxx_Ch1_Out04 B1 A2 Jxx_Ch1_Out05 _____Jxx_Ch1_Out06 B2 A3 Jxx_Ch1_Out07 ВЗ NC External connection A4 NC B4 and terminal-device NC A5 NC variable diagram B5 NC A6 NC NC B6 A7 12 to 24 VDC NC СОМ B7 A8 łŧ +\ В8 • 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)

the Units.

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

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. 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 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 Ĩ Output indicator Internal circuits +V Jxx Ch1 Out00 **Circuit Configuration** to Jxx_Ch1_Out15 сом • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name Connector pin * Signal name Signal name Jxx Ch1 Out00 A0 1 Jxx_Ch1_Out01 B0 - (f Jxx Ch1 Out02 A1 _Ch1_Out03 Β1 Jxx Ch1 Out04 A2 Jxx_Ch1_Out05 B2 Jxx_Ch1_Out06 ΈL. AЗ Jxx_Ch1_Out07 B3 Jxx Ch1 Out08 ī. A4 External connection Jxx_Ch1_Out09 B4 1 and terminal-device Jxx_Ch1_Out10 A5 variable diagram Jxx Ch1 Out11 B5 ΈL. Jxx_Ch1_Out12 Ĺ A6 Jxx Ch1 Out13 B6 1 Jxx_Ch1_Out14 ĩ Α7 Jxx_Ch1_Out15 B7 $(\mathbf{1})$ COM A8 +V B8 12 to 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

CJ1W-OD211 Transistor Output Unit (16 Points)

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

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 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** 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 5 VDC 150 mA max. Consumption Fuse None External Power 20.4 to 26.4 VDC, 55 mA min. Supply Weight 110 g max. Signal name τV Jxx_Ch1_Out00 to Internal circuits Jxx_Ch1_Out15 Circuit Configuration сом Output indicator • 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 Connec Signal Signal tor pin name name Jxx_Ch1_Out00 A0 L Jxx_Ch1_Out01 B0 Ē Jxx_Ch1_Out02 A1 Jxx Ch1 Out03 Β1 (L Jxx_Ch1_Out04 A2 Jxx Ch1 Out05 B2 Ω. Jxx_Ch1_Out06 AЗ Jxx Ch1 Out07 B3 ΈL. Jxx_Ch1_Out08 Δ4 External connection Ch1_Out09 Β4 Ω. Jxx Ch1 Out10 and terminal-device A5 variable diagram Jxx_Ch1_Out11 B5 Jxx Ch1 Out12 A6 T Ch1 _Out13 Jxx_ Ĺ B6 Jxx_Ch1_Out14 T Α7 Jxx_Ch1_Out15 B7 Æ СОМ A8 +\ B8 24 VDC • When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • The signal names of the terminals are the device variable names The device variable names are the names that use "Jxx" as the device name. Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on

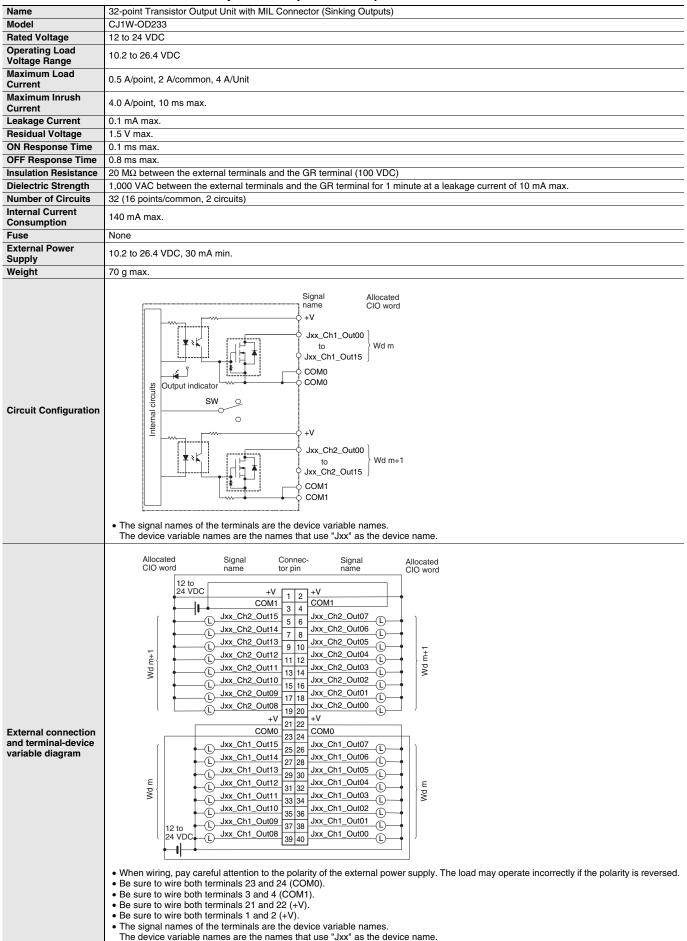
CJ1W-OD213 Transistor Output Unit (16 Points)

the Units.

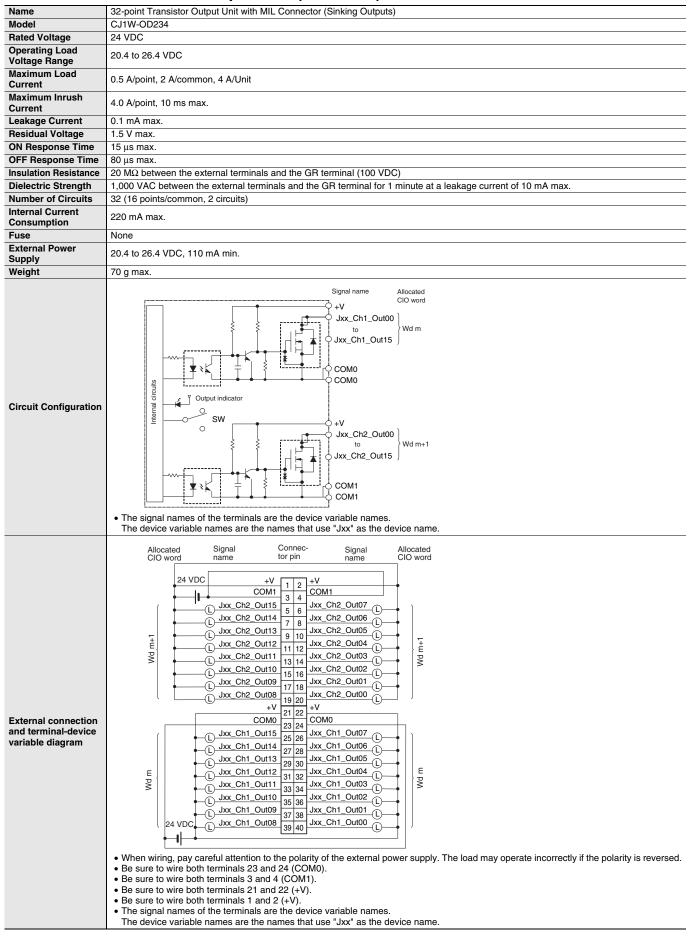
CJ1W-OD231 Transistor Output Unit (32 Points)

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	0.5 A/point, 2.0 A/common, 4.0 A/Unit
Current	
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 Dielectric Strength	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.
Number of Circuits	32 (16 points/common, 2 circuits)
Internal Current	5 VDC 140 mA max.
Consumption	
Fuse External Power	None
Supply	10.2 to 26.4 VDC, 30 mA min.
Weight	70 g max.
Accessories	None
Circuit Configuration	Signal Allocated CIO word +V Jxx_Ch1_Out00 to Uxx_Ch1_Out15 Wd m Connector row A Connector row A Connector row B Connector row B
External connection and terminal-device variable diagram	Allocated CIO word Wd m Wd m W
	 Be sure to wire both terminals B9 and B19 (COM1). Be sure to wire both terminals A10 and A20 (+V). Be sure to wire both terminals B10 and B20 (+V). The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD233 Transistor Output Unit (32 Points)



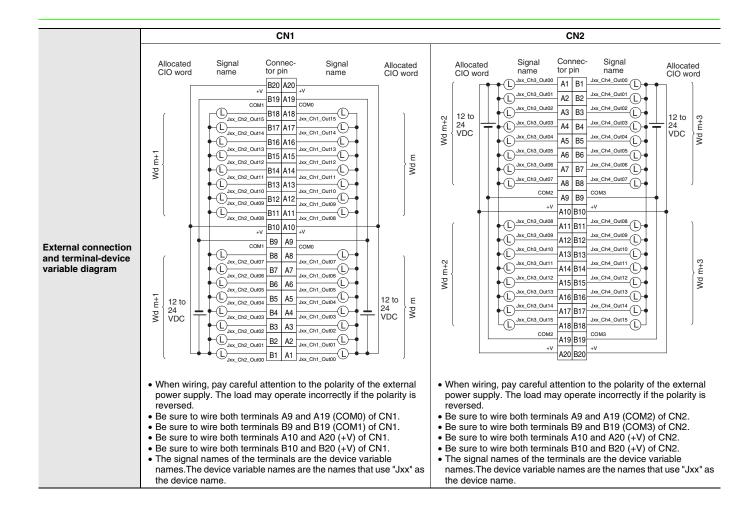
CJ1W-OD234 Transistor Output Unit (32 Points)



64-point Transistor Output Unit with Fujitsu Connectors (Sinking Outputs) Name Model CJ1W-OD261 **Rated Voltage** 12 to 24 VDC Operating Load Voltage Range 10.2 to 26.4 VDC Maximum Load 0.3 A/point, 1.6 A/common, 6.4 A/Unit Current Maximum Inrush 3.0 A/point, 10 ms max. Current 0.1 mA max. Leakage Current **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 5 VDC, 170 mA max. Consumption Fuse None **External Power** 10.2 to 26.4 VDC, 50 mA min. Supply Weight 110 g max. Accessories None Allocated CIO word Signal name +V Jxx_Ch1_Out00 Connector row A Wd m Jxx_Ch1_Out15 [↓]сомо CN1 ±ν Connector Jxx_Ch2_Out00 row B Internal circuits SW Wd m+1 Jxx_Ch2_Out15 í COM1 COM1 Output indicator **Circuit Configuration** Connector row A +V Jxx_Ch3_Out00 Wd m+2 Jxx_Ch3_Out15 COM2 Connector COM2 CN2 row B +V Jxx_Ch4_Out00 Wd m+3 Jxx_Ch4_Out15 COM3 COM3 • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name

CJ1W-OD261 Transistor Output Unit (64 Points)

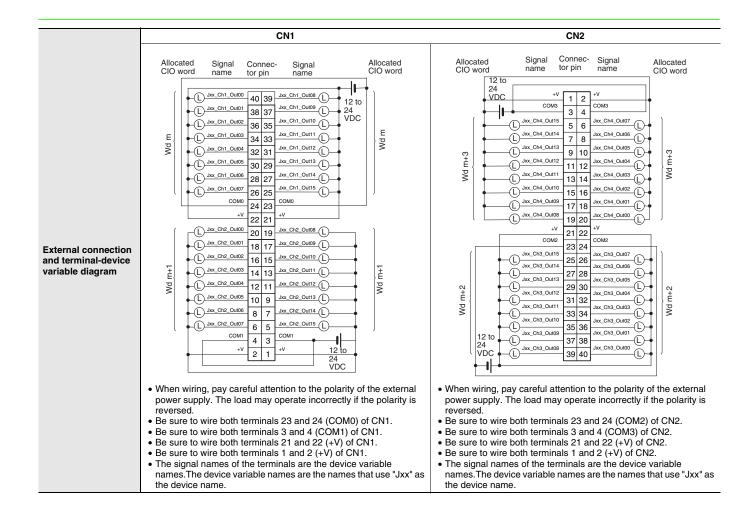
CJ1W-OC/OA/OD



CJ1W-OD263 Transistor Output Unit (64 Points)

Name	64-point Transistor Output Unit with MIL Connectors (Sinking Outputs)					
Model	CJ1W-OD263					
Rated Voltage	12 to 24 VDC					
Operating Load Voltage Range	10.2 to 26.4 VDC					
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit					
Maximum Inrush Current	3.0 A/point, 10 ms max.					
Leakage Current	0.1 mA max.					
Residual Voltage	1.5 V max.					
ON Response Time	0.5 ms max.					
OFF Response Time	1.0 ms max.					
Insulation Resistance	20 M Ω between the external terminals and the GR terminal (100 VDC)					
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.					
Number of Circuits	64 (16 points/common, 4 circuits)					
Internal Current Consumption	170 mA max.					
Fuse	None					
External Power Supply	10.2 to 26.4 VDC, 50 mA min.					
Weight	110 g max.					
Circuit Configuration	Signal Allocated name ClO word +V Jxx_Ch1_Out00 Jxx_Ch1_Out15 Wd m COM0 COM0 COM0 Uxx_Ch2_Out15 Wd m+1 COM1 Uutput indicator COM1 COM1 COM1 COM1 COM1 COM1 COM1 COM1					

CJ1W-OC/OA/OD



Model CJ1W-OD202 24 VDC **Rated Voltage** Operating Load Voltage Range 20.4 to 26.4 VDC Maximum Load 2 A/point, 8 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: 6 A min. Protection Automatic restart after error clearance Line Disconnection Detection current: 200 mA Detection 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 110 mA max. Consumption Fuse None External Power 20.4 to 26.4 VDC, 50 mA min. Supply Weight 120 g max. Signal name COM0 (+V) ¥* ⊣⊌ Jxx_Ch1_Out00 oroted Jxx_Ch1_Out03 0 \ circuits Output indicator COM1 (+V) Internal Circuit Configuration Jxx Ch1 Out04 Jxx_Ch1_Out07 \$ o v 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 Signal name Connec Signal name tor pin' Jxx_Ch1_Out00 A0 Π. Jxx_Ch1_Out01 B0 1 Jxx_Ch1_Out02 A1 ĺΓ. Jxx Ch1 Out03 B1 (1 NC A2 NC B2 24 VDC 0 V A3 COM0 (+V) B3 NC A4 External connection NC Β4 and terminal-device Jxx_Ch1_Out04 A5 variable diagram L Jxx Ch1 Out05 Β5 Ĺ Jxx_Ch1_Out06 A6 Т Jxx_Ch1_Out07 B6 NC Α7 NC B7 0 V 24 VDC A8 COM1 (+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.

CJ1W-OD202 Transistor Output Unit (8 Points)

Name

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

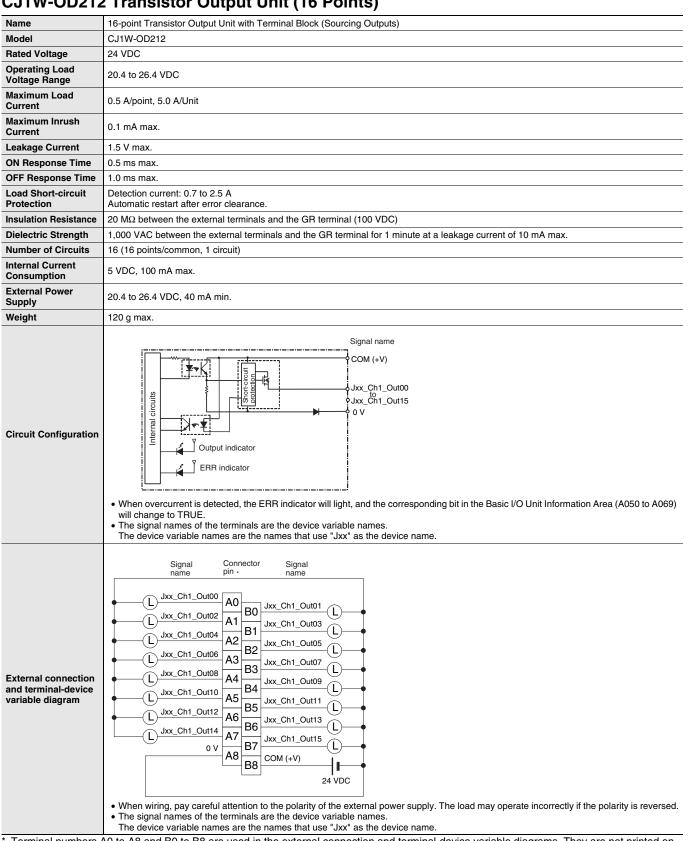
* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

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

CJ1W-OD204 Transistor Output Unit (8 Points)

Name	8-point Transistor Output Unit with Terminal Block (Sourcing Outputs)		
Model	CJ1W-OD204		
Rated Voltage	24 VDC		
Operating Load Voltage Range	20.4 to 26.4 VDC		
Maximum Load Current	0.5 A/point, 4.0 A/Unit		
Leakage Current	0.1 mA max.		
Residual Voltage	1.5 V max.		
ON Response Time	0.5 ms max.		
OFF Response Time	1.0 ms max.		
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.		
Insulation Resistance	20 M Ω between the external terminals and the GR terminal (100 VDC)		
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		
Number of Circuits	8 (8 points/common, 1 circuit)		
Internal Current Consumption	5 VDC, 100 mA max.		
Fuse	None		
External Power Supply	20.4 to 26.4 VDC, 40 mA min.		
Weight	120 g max.		
Circuit Configuration	 Signal name COM (+V) Jxx_Ch1_Out00 Jxx_Ch1_Out07 V When overcurrent is detected, the ERR indicator will light, and the corresponding bit in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. 		
External connection and terminal-device variable diagram	 Signal connectory Signal name Jxx_Ch1_Out00 Jxx_Ch1_Out01 Jxx_Ch1_Out02 A1 B0 Jxx_Ch1_Out03 Jxx_Ch1_Out04 AB Jxx_Ch1_Out05 Jxx_Ch1_Out06 A3 B2 Jxx_Ch1_Out07 Jxx_Ch1_Out06 A3 B3 NC NC A5 B5 NC NC A5 B5 NC NC A6 B6 NC NC A7 B7 COM (+V) 24 VDC • When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.		

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units. Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.



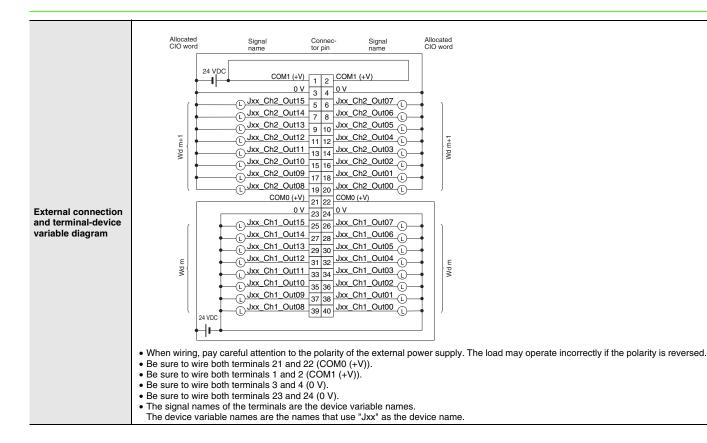
CJ1W-OD212 Transistor Output Unit (16 Points)

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	4 VDC		
Operating Load Voltage Range	20.4 to 26.4 VDC		
Maximum Load Current	0.5 A/point, 2.0 A/common, 4.0 A/Unit		
Leakage Current	0.1 mA max.		
Residual Voltage	1.5 V max.		
ON Response Time	0.5 ms max.		
OFF Response Time	1.0 ms max.		
Load Short-circuit Protection	Detection current: 0.7 to 2.5 A Automatic restart after error clearance.		
Insulation Resistance	20 M Ω between the external terminals and the GR terminal (100 VDC)		
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		
Number of Circuits	32 (16 points/common, 2 circuits)		
Internal Current Consumption	5 VDC 150 mA max.		
External Power Supply	20.4 to 26.4 VDC, 70 mA min.		
Weight	80 g max.		
Accessories	None		
Circuit Configuration	 Signal name Allocated CIO word CIO word CIO word COM (+V) Jxr_Ch1_Out00 Jxr_Ch1_Out15 Wd m W d m V V		

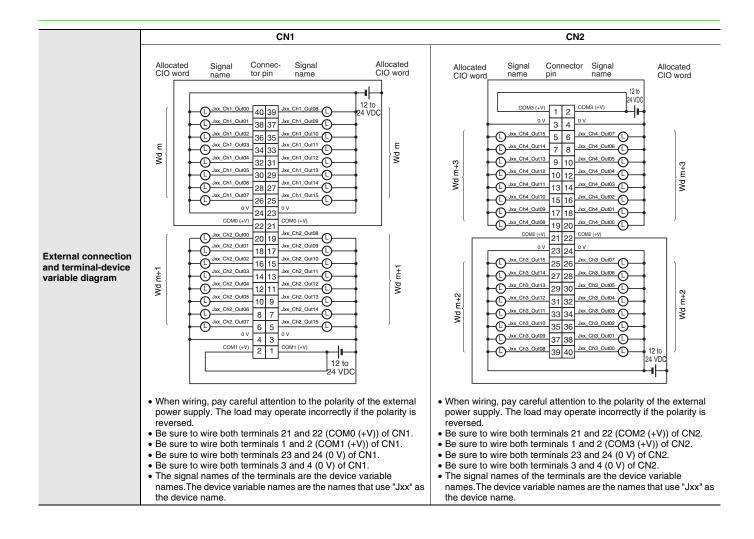
CJ1W-OC/OA/OD



CJ1W-OD262 Transistor Output Unit (64 Points)

Name	64-point Transistor Output Unit with MIL Connectors (Sourcing Outputs)		
Model	CJ1W-OD262		
Rated Voltage	2 to 24 VDC		
Operating Load Voltage Range	0.2 to 26.4 VDC		
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit		
Maximum Inrush Current	3.0 A/point, 10 ms max.		
Leakage Current	0.1 mA max.		
Residual Voltage	1.5 V max.		
ON Response Time	0.5 ms max.		
OFF Response Time	1.0 ms max.		
Insulation Resistance	20 M Ω between the external terminals and the GR terminal (100 VDC)		
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		
Number of Circuits	64 (16 points/common, 4 circuits)		
Internal Current Consumption	170 mA max. (5 VDC)		
Fuse	None		
External Power Supply	10.2 to 26.4 VDC, 50 mA min.		
Weight	110 g max.		
Accessories	None		
Circuit Configuration	 Signal Allocated Cloword COM0 COM0 Como Jxx_Ch1_Outo0 Jxx_Ch1_Outo15 Wd m CN1 (OUT) COM1 COM1 Jxx_Ch2_Outo0 Jxx_Ch2_Outo15 Wd m+1 CN2 (OUT) COM2 COM3 Jxx_Ch4_Outo0 Jxx_Ch4_Outo0 Jxx_Ch4_Outo0 Wd m+3 CN2 (OUT) 		

CJ1W-OC/OA/OD



Bit Allocations for Output Unit

8-point Output Unit

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

16-point Output Unit

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

64-point Output Unit

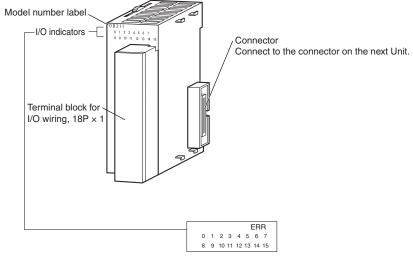
Allocate	Allocated CIO word		
CIO	Bit	Signal name (CJ/NJ)	
	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	:	:	
(output)	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
	00	OUT0/Jxx_Ch2_Out00	
	01	OUT1/Jxx_Ch2_Out01	
Wd m+1 (Output)	:	:	
(Output)	14	OUT14/Jxx_Ch2_Out14	
	15	OUT15/Jxx_Ch2_Out15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

32-point Output Unit

Allocated			
CIO	Bit	Signal name (CJ/NJ)	
	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	:	:	
(0 4 4 4 4 7	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
	00	OUT0/Jxx_Ch2_Out00	
	01	OUT1/Jxx_Ch2_Out01	
Wd m+1 (Output)	:	:	
(Calput)	14	OUT14/Jxx_Ch2_Out14	
	15	OUT15/Jxx_Ch2_Out15	

External Interface

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



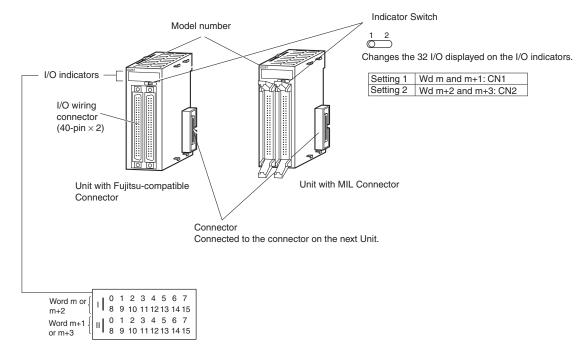
Note: The CJ1W-OD202, CJ1W-OD204, and CJ1W-OD212 also have an ERR indicator for the load short-circuit alarm.

Model number Indicator Switch \bigcirc^{1} I/O indicators Changes the 16 I/O displayed on the I/O indicators. I/O wiring connector Fujitsu connector MIL connector Wd m (Row A on connector) Bottom of connector Wd m+1 (Row B on connector) Top of connector Setting 1 $(40\text{-pin} \times 1)$ Setting 2 Unit with Fujitsu-compatible Unit with MIL Connector Connector Connector Connected to the connector on the next Unit. ERR 0 1 2 3 4 5 6 7 8 9 1011 Word m or m+1 12 13 14 15

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.

CJ1W-OC/OA/OD



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

Wiring Basic I/O Units with Terminal Blocks

Electric Wires

The following wire gauges are recommended.

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

Crimp terminals

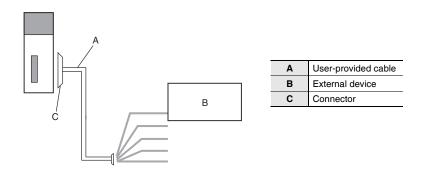
Use crimp terminals (M3) having the dimensions shown below.



I/O Unit Wiring Methods

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

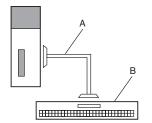
- 1. User-provided Cable
- An I/O Unit can be directly connected to an external device by using a connector.



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.

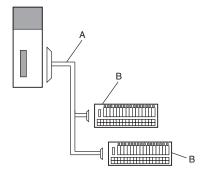


Connecting Cable for Connector-Terminal Block Conversion Unit KW2Z
Connector-Terminal Block Conversion Unit KW2

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-compatible Connectors

Applicable Units

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

Applicable Cable-side Connectors

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

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

Applicable Units

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

Applicable Cable-side Connectors

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

*1. Socket and Stain Relief set.

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

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

Wire Size

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

Crimping Tools

The following models are recommended for crimping tools and pressure-welding tools for Fujitsu connectors. Tools for Crimped Connectors (Fujitsu Component)

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

Tools for Pressure-welded Connectors (Fujitsu Component)

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

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

Tools for Pressure-welded Connectors (OMRON)

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

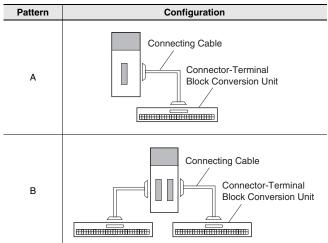
Tools for Crimped Connectors (OMRON)

Product Name	Model				
Manual Crimping Tool	XY2B-7007				

CJ1W-OC/OA/OD

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units



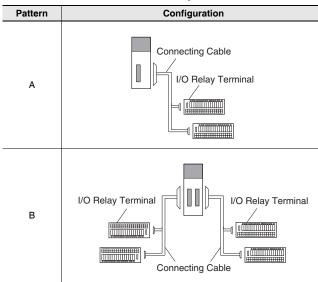
Combination of I/O Units with Connector-Terminal Block Conversion Units

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals
			NPN	A	XW2Z-DDB	XW2K-40G-O32B	Push-In Plus	No
CJ1W-OD231	00	1 Fujitsu				XW2K-40G-O32B-OUT	Push-In Plus	Yes
CJ1W-OD231	32 outputs	connector				XW2R-J34GD-C3	Phillips screw	No
						XW2R-E34GD-C3	Slotted screw (rise up)	No
						XW2K-40G-O32C	Push-In Plus	No
	00	1 MIL	PNP			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
CJ1W-OD233 32 outputs	1 MIL				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
CJ1W-OD234 32 outputs					XW2K-40G-O32C	Push-In Plus	No	
		1 MIL connector	NPN	A	XW2Z-□□□K	XW2K-40G-O32C-OUT	Push-In Plus	Yes
	32 outputs					XW2R-J34GD-C4	Phillips screw	No
					XW2R-E34GD-C4	Slotted screw (rise up)	No	
						XW2K-40G-O32B (2 pcs)	Push-In Plus	No
	2 Fujitsu	NDN	_	XW2Z-DDB	XW2K-40G-O32B-OUT (2 pcs)	Push-In Plus	No	
CJ1W-OD261	64 outputs	connectors	NPN	В	(2 pcs)	XW2R-J34GD-C3 (2 pcs)	Phillips screw	Yes
						XW2R-E34GD-C3 (2 pcs)	Slotted screw (rise up)	No
		outputs 2 MIL connectors			XW2Z-DDDK	XW2K-40G-O32C (2 pcs)	Push-In Plus	No
CJ1W-OD262	C1 outputo		PNP			XW2K-40G-O32C-OUT (2 pcs)	Push-In Plus	No
CJ1W-OD262	64 outputs		PNP	В	(2 pcs)	XW2R-J34GD-C4 (2 pcs)	Phillips screw	Yes
						XW2R-E34GD-C4 (2 pcs)	Slotted screw (rise up)	No
						XW2K-40G-O32C (2 pcs)	Push-In Plus	No
CJ1W-OD263	64 outputs	2 MIL connectors	NPN	В	XW2Z-□□□K (2 pcs)	XW2K-40G-O32C-OUT (2 pcs)	Push-In Plus	Yes
00100-00263	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 series catalog (Cat. No. G077).

3. Connecting I/O Relay Terminals

Connection Patterns for I/O Relay Terminals



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

I/O Units			Connection	Connecting Cables		I/O Relay Terminals				
Model	I/O capacity	External connectors	Polarity	pattern	Model *1	Quantity required	Model	I/O points	Quantity required	Wiring method
						G70V-SOC16P(-C4)	16		Push-in spring	
		1 Fujitsu	Oim bin a	A	XW2Z-RO□C-□	1	G7TC-OC16	16	2	Screw terminal
CJ1W-OD231	32 outputs	connector	Sinking (NPN)				G70D-SOC/FOM16	16		
		(40 p)	(G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *2	16		
		1 MIL	Sourcing		XW2Z-RO□-□-D1	1	G70A-ZOC16-4 *2	16		
CJ1W-OD232	32 outputs	connector	(PNP)	А		1	G70D-SOC/FOM16-1	16	2	Screw terminal
		(40 p)	(111)		XW2Z-RI	1	G7TC-OC16-1	16	Ī	
							G70V-SOC16P(-C4)	16		Push-in spring
		1 MIL	Oim bin a				G7TC-OC16	16		Screw terminal
CJ1W-OD233	32 outputs	connector	Sinking (NPN)	А	XW2Z-RO -D1	1	G70D-SOC/FOM16	16	2	
		(40 p)	(INFIN)				G70D-VSOC16/VFOM16	16	-	
							G70A-ZOC16-3 *2	16		
							G70V-SOC16P(-C4)	16		Push-in spring
CJ1W-OD234 32 outputs	1 MIL connector (40 p)	a	A	XW2Z-RO□C-□	1	G7TC-OC16	16	2	Screw terminal	
		Sinking (NPN)				G70D-SOC/FOM16	16			
						G70D-VSOC16/VFOM16	16			
						G70A-ZOC16-3 *2	16			
						G70V-SOC16P(-C4)	16		Push-in spring	
	2 Fuiitsu					G7TC-OC16	16	-		
CJ1W-OD261	64 outputs		Sinking (NPN)	В	XW2Z-RO□C-□	2	G70D-SOC/FOM16	16	4	Screw terminal
	-						G70D-VSOC16/VFOM16	16		
					÷	G70A-ZOC16-3 *2	16	1		
		2 MIL					G70V-SOC16P-1(-C4)	16		Push-in spring
			Sourcing		XW2Z-RO -D1	2	G70A-ZOC16-4 *2	16	-	
CJ1W-OD262 64 outputs	uts connectors (40 p)	(PNP)	В			G70D-SOC/FOM16-1	16	4	Screw terminal	
				XW2Z-RI	2	G7TC-OC16-1	16			
							G70V-SOC16P(-C4)	16	4	Push-in spring
		2 MIL				2	G7TC-OC16	16		Screw terminal
CJ1W-OD263	64 outputs		ors Sinking (NPN)				G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *2	16		

*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.

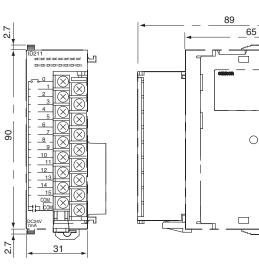
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Dimensions

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

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

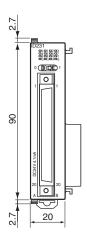


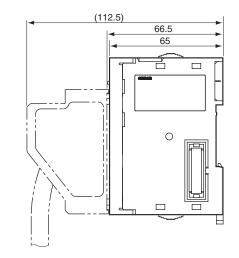


32-point Unit (Output Units)

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

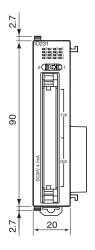


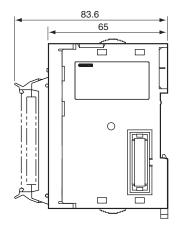




With MIL Connector (40-pin \times 1) CJ1W-OD232 / OD233 / OD234



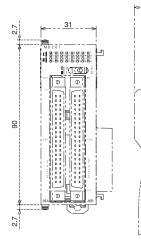


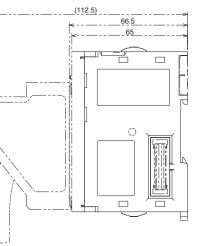


64-point Units (Output Units)

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

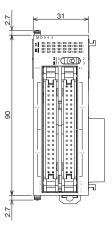


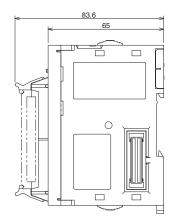




With MIL Connector (40-pin \times 2) CJ1W-OD262 / OD263







Related Manuals

Name	Cat. No.	Contents
CJ-series CJ2 CPU Unit Hardware User's Manual CJ2H-CPU6 CJ2H-CPU6 CJ2H-CPU6 CJ2M-CPU	W472	Describes the following for CJ2 CPU Units: • Overview and features • Basic system configuration • Part nomenclature and functions • Mounting and setting procedure • Remedies for errors • Also refer to the <i>Software User's Manual</i> (W473).
CJ Series CJ1H-CPU H-R, CJ1G/H-CPU H, CJ1G-CPU P, CJ1G-CPU CJ1M-CPU Programmable Controllers Operation Manual	W393	Provides an outlines of and describes the design, installation, maintenance, and other basic operations for the CJ-series PLCs.
NJ-series CPU Unit Hardware User's Manual NJ501	W500	An introduction to the entire NJ-series system is provided along with the following information on a Controller built with an NJ501 CPU Unit. • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Maintenance and inspection Use this manual together with the NJ-series CPU Unit Software User's Manual (Cat. No. W501).

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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 part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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

OMRON Corporation Industrial Automation Company