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

#### CSM\_CJ1W-OUTPUT\_DS\_E\_8\_5

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

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



CJ1W-OD213



CJ1W-OD234

# Features

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

# **Ordering Information**

#### International Standards

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

#### **Output Units**

Unit type	Product			Specifications			No. of words	consu	rrent Imption A)	Model	Standards
	name	Output type	I/O points	Maximum switching capacity	Commons	External connection	allocated	5 V	24 V		
	Relay Contact Output Units	_	8 outputs	250 VAC/24 VDC, 2 A	Independen t contacts	Removable terminal block	1 words	0.09	0.048 max.	CJ1W-OC201	
		_	16 outputs	250 VAC/24 VDC, 2 A	16 points, 1 common	Removable terminal block	1 words	0.11	0.096 max.	CJ1W-OC211	
	Triac Output Unit	_	8 outputs	250 VAC, 0.6 A	8 points, 1 common	Removable terminal block	1 words	0.22	_	CJ1W-OA201	UC1, N, L, CE
		Sinking	8 outputs	12 to 24 VDC, 2 A	4 points, 1 common	Removable terminal block	1 words	0.09	_	CJ1W-OD201	
		Sinking	8 outputs	12 to 24 VDC, 0.5 A	8 points, 1 common	Removable terminal block	1 words	0.10	_	CJ1W-OD203	1
		Sinking	16 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.10	-	CJ1W-OD211	
CJ1 Basic I/O Units	Transistor Output Units	Sinking	16 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.15	_	CJ1W-OD213	N, L, CE
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Fujitsu connector	2 words	0.14	-	CJ1W-OD231	UC1, N, L,
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.14	-	CJ1W-OD233	CE
		Sinking	32 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.22	_	CJ1W-OD234	N, L, CE
		Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	Fujitsu connector	4 words	0.17	-	CJ1W-OD261	
	<b>S</b>	Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	-	CJ1W-OD263	
		Sourcing	8 outputs	24 VDC, 2 A Short-circuit protection	4 points, 1 common	Removable terminal block	1 words	0.11	-	CJ1W-OD202	
		Sourcing	8 outputs	24 VDC, 0.5 A Short-circuit protection	8 points, 1 common	Removable terminal block	1 words	0.10	-	CJ1W-OD204	UC1, N, L, CE
		Sourcing	16 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	Removable terminal block	1 words	0.10	_	CJ1W-OD212	
		Sourcing	32 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	MIL connector	2 words	0.15	-	CJ1W-OD232	
		Sourcing	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	-	CJ1W-OD262	

#### Accessories

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

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

Name	Connection	Rem	arks	Applicable Units	Model	Standards
40-pin	Soldered	FCN-361J040-AUConnectorFCN-360C040-J2Connector Cover		Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit	C500-CE404	
	Crimped	FCN-363J040 FCN-363J-AU FCN-360C040-J2	Housing Contactor Connector Cover	CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit	C500-CE405	
	Pressure welded	FCN-367J040-AU/F		CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE403	
24-pin Connectors	Soldered	FCN-361J024-AU FCN-360C024-J2	Connector Connector Cover		C500-CE241	
	Crimped	nped 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	

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

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

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

#### Applicable Connector-Terminal Block Conversion Units

		Number	Wiring	ing Terminal Size Mounting Common Bleeder											
Туре	Series	Number of poles	method	type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws	terminals		Indicators	I/O Units	Model *	Standards
			Phillips screw										CJ1W-OD231 CJ1W-OD261	XW2R-J34GD-C3	
			Sector Se	МЗ	50	48.05	130.7						CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-J34GD-C4	
			Slotted screw (rise up)										CJ1W-OD231 CJ1W-OD261	XW2R-E34GD-C3	
PLCs	XW2R		(Inserup) (European type) M3 (European type) 50 44.81 98.5 Yes No No No	No	lo No	CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-E34GD-C4	_							
			Push-in spring										CJ1W-OD231 CJ1W-OD261	XW2R-P34GD-C3	
				Clamp	50	44.81	98.5						CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263	XW2R-P34GD-C4	

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

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

#### **Connecting Cables for Connector-Terminal Block Conversion Units**

Appearance	Connectors	Cable lenght [m]	Model
XW2Z-		0.5	XW2Z-050PF
		1	XW2Z-100PF
	One 40-pin Fujitsu Connector to One 40-pin MIL Connector	1.5	XW2Z-150PF
	One 40-pin Pujitsu Connector to One 40-pin Mill Connector	2	XW2Z-200PF
		3	XW2Z-300PF
		5	XW2Z-500PF
XW2Z-□□□PM		0.5	XW2Z-050PM
		1	XW2Z-100PM
		1.5	XW2Z-150PM
	One 40-pin MIL Connector to One 40-pin MIL Connector	2	XW2Z-200PM
		3	XW2Z-300PM
		5	XW2Z-500PM

# CJ1W-OC/OA/OD

		Specifications							izontal m	ounting)	Mou	Inting				
Туре	Series	Classi	Classification		Number of points	Rated ON current at contacts	Rated voltage	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standards		
				NPN								1	G70V-SID16P *4			
		la su da	DC	PNP	16	50 m A							G70V-SID16P-1 *4	-		
Push-In	G70V	Inputs	inputs	NPN	(SPSTNO × 16)	50 mA					Yes		G70V-SID16P-C16 *5	-		
Plus				PNP	-			143	90	50		Vee	G70V-SID16P-1-C16 *5	UC, CE (TÜV		
terminal				NPN			24 VDC	143	30	56		Yes	G70V-SOC16P *4	certified)		
block		Outputs	Relay	PNP	16	6 A/point, 10 A/							G70V-SOC16P-1 *4			
		Outputs	outputs	NPN	(SPDT × 16)	common							G70V-SOC16P-C4 *6			
				PNP									G70V-SOC16P-1-C4 *6	-		
			AC				100/(110) VAC						G7TC-IA16 AC100/110			
			inputs		10		200/(220) VAC						G7TC-IA16 AC200/220			
		Inputs	DC	NPN	16 (SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12			
	G7TC		DC inputs				24 VDC						G7TC-ID16 DC24			
							100/110 VDC						G7TC-ID16 DC100/110			
Standard	Contraction	Outputs			8		12 VDC	102	85	68	Yes	No	G7TC-OC08 DC12	U, C		
	Annun annun			NPN	$(SPSTNO \times 8)$		24 VDC	102					G7TC-OC08 DC24			
	-		Relay		16	5A	12 VDC						G7TC-OC16 DC12			
		Outputo	outputs		(SPSTNO × 16)		24 VDC	182					G7TC-OC16 DC24			
				PNP	16		12 VDC	102					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 outputs	NPN	nossiblewith	10 A (Ter- minal block al-	24 VDC	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)		
		Outputo		PNP		lowable	24 000						G70A-ZOC16-4			
	Vertical type G70D-V		Relay outputs			5 A or 3 A *3							G70D-VSOC16			
			MOSFET relay outputs	NPN	16 (SPSTNO × 16)	0.3 A		135	46	81	Yes	Yes	G70D-VFOM16	U, C, CE (VDE certified)		
Space- saving	Flat type G70D	Outputs		NPN	8 (SPSTNO × 8)	5 A	24 VDC	68	93	44			G70D-SOC08			
Saving	g		Relay outputs	INFIN	16 (SPSTNO × 16)	3 A							G70D-SOC16			
mme	annut .			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	-		
		THINKHING			MOSFET	NPN	16	+							G70D-FOM16	
	THILING IN		relay outputs	PNP	16 (SPSTNO × 16)	0.3 A							G70D-FOM16-1	-		
	G70R															
High- capacity, space- saving		Outputs	Relay outputs	NPN	8 (SPSTNO×8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08	-		

#### 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.

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

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

#### Cables for I/O Relay Terminals

Туре	Name	I/O Classification	Appearance	Cable leng	gth L (mm)	Models
			A side B side	1,0	000	XW2Z-R100C
	Cables with Connectors		Device end I/O Relay Terminal	1,5	500	XW2Z-R150C
ujitsu connectors (24 pins)	(1:1)	16 I/O points		2,0	000	XW2Z-R200C
	XW2Z-R□C			3,0	000	XW2Z-R300C
			L	5,0	000	XW2Z-R500C
			A side D side	(A) 1,000	(B) 750	XW2Z-RI100C-75
			A side B side . Device end I/O Relay Terminal	(A) 1,500	(B) 1,250	XW2Z-RI150C-125
Fujitsu connectors (40 pins)		32 input points	→── (A) →	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
	(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		(A) 2,000	(B) 1,750	XW2Z-RO200C-175
		on output pointo	(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	2	50	XW2Z-RI25C
	(1:1)		Device end I/O Relay Terminal	50	00	XW2Z-RI50C
IIL connectors (20 pins)	XW2Z-RI□C XW2Z-RO□C	16 I/O points		25	50	XW2Z-RO25C
				50	00	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) →	(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
III. aannaatara (40 mir -)	(1:2)	32 I/O points		(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
IL connectors (40 pins)	XW2Z-RO□-□-D1.	32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
	XW2Z-RID-D-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)	(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
				(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
				(A) 5,000	(B) 4,750	XW2Z-RI500-475-D1

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

# **Mountable Racks**

	NJ s	system	CJ system	n (CJ1, CJ2)	CP1H system	NSJ s	ystem
Model	CPU Rack	Expansion Rack	CPU Rack	Expansion Backplane	CP1H PLC	NSJ Controller	Expansion Backplane
CJ1W-OC201							
CJ1W-0C211							
CJ1W-OA201							
CJ1W-OD201							
CJ1W-OD203							
CJ1W-OD211							
CJ1W-OD213							
CJ1W-OD231		10 Units		10 Units			10 Units
CJ1W-OD233	10 Units	(Per Expansion	10 Units	(Per Expansion	Not Supported	Not Supported	(Per Expansion
CJ1W-OD234		Rack)		Backplane)			Backplane)
CJ1W-OD261							
CJ1W-OD263							
CJ1W-OD202							
CJ1W-OD204							
CJ1W-OD212							
CJ1W-OD232							
CJ1W-OD262							

# **Specifications**

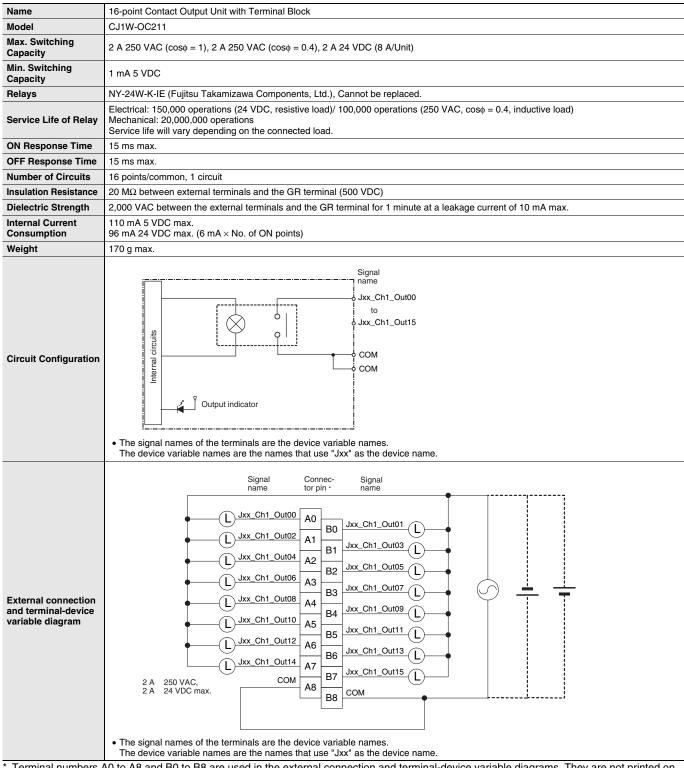
# CJ1W-OC201 Contact Output Unit (Independent Relays, 8 Points)

Name	8-point Contact Output Unit with Terminal Block (Independent Relays)								
Model	CJ1W-OC201								
Max. Switching Capacity	2 A 250 VAC (cosφ = 1), 2 A 250 VAC (cosφ = 0.4), 2 A 24 VDC (16 A/Unit)								
Min. Switching Capacity	nA 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	5 ms max.								
OFF Response Time	ns max.								
Number of Circuits	dependent contacts								
Insulation Resistance	$0 \text{ M}\Omega$ between external terminals and the GR terminal (500 VDC)								
Dielectric Strength	2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.								
Internal Current Consumption	e mA 5 VDC max. B 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       Connec-tor pin*       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								

\* 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)

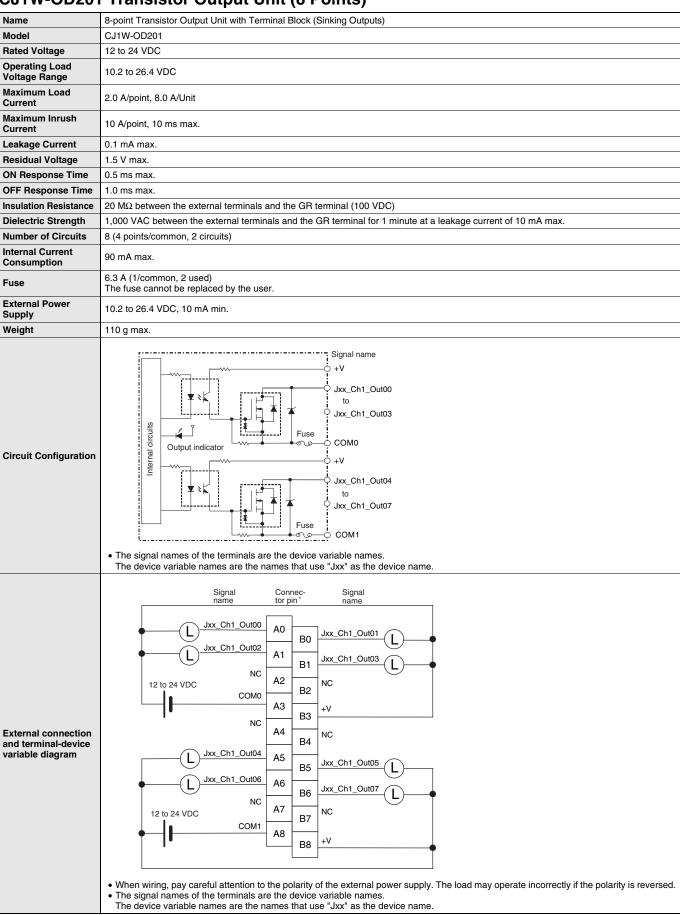


Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

# CJ1W-OA201 Triac Output Unit (8 Points)

Name         By point Trace Output Unit with Terminal Block           Model         CUIV-0/A01           Max. Switching Capacity         04 A 250 VAC, 5080 Hz (24 AUnit)           Max. Intrush Current         15 A (200 VAC)           Max. Switching Capacity         50 m / 75 VAC           Leakage Current         15 A (200 VAC)           Max. Switching Capacity         15 m (200 VAC)           Max. Switching Capacity         15 m (200 VAC)           Number of Circuits         8 (8 points/common, 1 use)           The size and the common to a set         0           OFF Response Time         1/2 of load frequency + 1 ms or less.           Number of Circuits         8 (8 points/common, 1 use)           The use cance be repleaded by the user.           Fuses         15 A (1/00mmon, 1 use)           The use cance be repleaded by the user.           Internal Current         220 WA to between the external terminals and the GR terminal (500 VDC)           Dielectric Strong         220 WA max.           Veight         150 g max.           Circuit Configuration         150 g max.           Veight         150 g max.           External connection and terminal-divice variable manes at the terminals are the divice variable manes. The divice variable manes are the names that use "xot" as the divice name.										
Nax. Switching copacity       0.6 A 280 VAC. 50(60 Hz (2:4 AUnit)         Max. Inrush Current       15 A (pulse width: 10 ms max.)         Solution       50 m A 75 VAC         Leakage Current       1.5 m (200 VAC) max.         Besidual Voltage Control       1.6 VAC max.         ON Response Tume       1 ms max.         ON Response Tume       1 ms max.         Surge Protector       C.R Abacher - Surge Abacher         Fuses       5 A (Longe Abacher         Total Use Control to 400 ms (1 used)       16 Use Control to 400 ms (1 used)         Dielectick Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Dielectick Strength       2.000 VAC between the external terminals (500 VDC)         Dielectick Strength       2.000 VAC between the external terminals (500 VDC)         Dielectick Strength       2.000 VAC between the external terminals (500 VDC)         Circuit Configuration       150 g max.         External connections       20 m A max.         Velight       150 g max.         External connections       Same         No       Ad fight         No       Ad fight         Signal names of the terminals are the device variable names.         The device variable mames are the names that use 'Loc' external terminal.	Name	8-point Triac Output Unit with Terminal Block								
Capacity       00 A 250 VAC, 5300 PAC, 24 NUMB         Max. Invasi Current       15 A Que with: 10 ms max.         Max. Suitching       50 mA 75 VAC         Leakage Current       1.5 mA (200 VAC) max.         Residual Voltage       1.5 mA (200 VAC) max.         Residual Residence       8.8 pointscommon, 1 stach         Staf (10 common, 1 stach)       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 (500 VDC)         Delectric Strength       2.000 VAC between the external terminals (500 VDC)         Delectric Strength       1.000 VAC between the external terminals (500 VDC)         Delectric Strength       1.000 VAC between the external terminals (500 VDC)         Delectric Strength       1.000 VAC between the		CJ1W-OA201								
Instruction       50 mA 75 VAC         Leakage Current       1.5 mA (200 VAC) max.         Residual Voltage       1.6 VAC max.         ON Response Time       115 max.         OFF Response Time       12 of load frequency + 1 ms or less.         Number of Circuits       8 (8 points/common, 1 clicuit)         Surge Protector       C.R Absorber + Surge Absorber         Fuses       5.4 (1/common, 1 used)         The Use carnot be replaced by the user.       10 Miz between the external terminals and the GR terminal (500 VDC)         Delectric Stream to replace by the user.       200 MA max.         Insulation Resistance       20 Miz between the external terminals and the GR terminal (500 VDC)         Delectric Stream to replace by the user.       200 mA max.         Veight       150 g max.         Veight       150 g max.         Circuit Configuration       Image: Stream to replace the terminals and the GR terminal connect.         The device variable names of the terminals as at the device name.       The device variable names are the names that use "Jac" as the device name.         External connection and terminals are the form of the user stream terminal terminal device variable name.       No         No       A at bio dispace to the user stream terminal termi		0.6 A 250 VAC, 50/60 Hz (2.4 A/Unit)								
Capacity       UMA / 5 VAC         Leskage Current       15 m (200 VAC) max.         Residual Voltage       16 VAC max.         ON Response Time       1 m s max.         OFF Response Time       120 VAC max.         Number of Circuite       8 (8 points/common, 1 circuit)         Surge Protector       C.R Absorber + Surge Absorber         Fuses       5 A (1 Common, 1 sicol)         Insulation Residence       20 MA brownen 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       12:00 max.         Veight       150 g max.         Circuit Configuration       15:00 max.         External connection and max and the GR terminal for 1 minute at a leakage current of 10 mA max.         Impaint Amax and the GR terminal for 1 minute at a leakage current of 10 mA max.         Internal Current Configuration       15 gingal         Internal current Configuration       10 gingal         Internal current Configuration       10 gingal         No	Max. Inrush Current	A (pulse width: 10 ms max.)								
Residual Voitage       1.6 VAC max.         ON Response Time       1/2 of lead frequency + 1 ms or less.         Number of Circuits       8 (# pointscommon, 1 circuit)         Surge Protector       C.R Absorber + Surge Absorber         Fuses       5 A (Licommon, 1 used) The luse cannot be replaced by the user.         Insultation Resistance       20 ML between the external terminals and the GR terminal (500 VDC)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Circuit Configuration       150 g max.         Weight       150 g max.         Circuit Configuration       150 g max.         No       A         No       A         No       A         No       A         No       A         No       A      <		mA 75 VAC								
ON Response Time       1 ms max.         OFF Response Time       1/2 of load frequency + 1 ms or less.         Number of Circuit       8 (B 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 (500 VDC)         Deflective Stream       200 MC 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 of the terminals are the device variable names. The device variable names are the names that use "Just" as the device name.         External connection and terminal-device variable diagram       Image of the terminals are the device variable names. The device variable names are the names that use "Just" as the device name.	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 circuit)         Surge Protector       C.R.Alsorber - Surge Absorber         Fuses       5.4 (1/common, 1 used)         Insulation Resistance       20 MG 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.         Weight       150 g max.         Circuit Configuration       Image of the terminal search the device variable names. The device variable mames and the GR terminal search of evice on ame.         External connection and terminal-device variable diagram       Image of the terminals are the device variable names. The device variable mames are the names that use 'Jox' as the device name.	Residual Voltage	1.6 VAC max.								
Number of Circuits       8 (8 points/common, 1 circuit)         Surge Protector       C.R Absorber + Surge Absorber         Fuese       S.A (frommon, 1 used) The fuse cannot be replaced by the user.         Insulation Resistance       20 M2 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)         Dielectric Strength       2.000 VAC between the external terminals and the GR terminal (500 VDC)         Oriental Current Consumption       220 mA max.         Veight       150 g max.         Circuit Configuration	ON Response Time	1 ms max.								
Surge Protector       C.R. Absorber + Surge Absorber         Fuses       5.4 (//common, 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 (500 VDC)         Internal Current       220 mA max.         Weight       150 g max.         Circuit Configuration       Image: Common terminal state and the GR terminal for 1 minute at a leakage current of 10 mA max.         Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration <th>OFF Response Time</th> <th>1/2 of load frequency + 1 ms or less.</th>	OFF Response Time	1/2 of load frequency + 1 ms or less.								
Fuses       5 A (1/common, 1 used) The tuse 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 (600 VDC)         20 main       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       2:00 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       Image: Compare terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.         Use for the signal names 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       NC       Al Bu Jox Cht Out00       Image Jox Cht Out02       Zo VAC max.         NC       Al Bu Jox Cht Out00       Image Jox Cht Out02       Zo VAC max.       Al Bu Jox Cht Out02       Zo VAC max.         NC       Al Bu Jox Cht Out03       Image Jox Cht Out03       Zo VAC max.       Al Bu Jox Cht Out03       Zo VAC max.	Number of Circuits									
Process       The fuse cannot be replaced by the user.         Insulation Resistance       20 MΩ 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.         Internal Current Consumption       220 mA max.         Weight       150 g max.         Circuit Configuration       Image: Consumption of the terminals are the device variable names. The device variable names that use "Jxx" as the device name.         Fuse       Connection and terminals are the device variable names. The device variable names that use "Jxx" as the device name.         External connection and terminal-device variable names that use "Jxx" as the device name.       Connection and terminals are the device variable names. The device variable names that use "Jxx" as the device name.         External connection and terminal-device variable names that use "Jxx" as the device name.       Connection and terminals are the device variable names. The device variable diagram         No       A0       B0       Jxx Ch1 Out00       Ch1 Out00       Ch1 Out00       Ch1 Out00         No       A1       B1       Jxx Ch1 Out00       Ch1 Out00       Ch1 Out00       Ch1 Out00       Ch1 Out00         No       A5       B3       Jxx Ch1 Out00	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 mane         Gircuit 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 variable diagram       NC       Ad       Bo       Jxx_Ch1_Out00       Umax       250 VAC max.         NC       Ad       Bo       Jxx_Ch1_Out00       Umax       250 VAC max.       250 VAC max.         NC       Ad       Bo       Jxx_Ch1_Out00       Umax       250 VAC max.       350 VAC max.	Fuses									
Internal Current Consumption       220 mA max.         Weight       150 g max.         Circuit Configuration       Image: Configuration         Image: Circuit Configuration       Image: Circuit Circu	Insulation Resistance	20 M $\Omega$ between the external terminals and the GR terminal (500 VDC)								
Consumption       220 ThA Hax.         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 names. The device variable names are the names that use "Jxx" as the device name.       Image: Connec- tor pint         NC       A0       B0       Jxx. Ch1_Out00         NC       A1       B1       Jxx. Ch1_Out02         NC       A3       B3       Jxx. Ch1_Out02         NC       A5       B5       Jxx. Ch1_Out02         NC       A5       B4       Jxx. Ch1_Out02         NC       A5       B5       Jxx. Ch1_Out02         NC       A5       B7       Connec         NC       A7       B7       Connec		2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.								
Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit		220 mA max.								
Circuit Configuration       Image: Circuit Configuration         Image: Circuit Configuration       Image: Circuit Configuration	Weight	150 g max.								
External connection and terminal-device variable diagram NC A0 B0 Jxx_Ch1_Out01 $L$ NC A1 B1 Jxx_Ch1_Out01 $L$ NC A2 B2 Jxx_Ch1_Out02 $L$ NC A3 B3 Jxx_Ch1_Out02 $L$ NC A4 B4 Jxx_Ch1_Out04 $L$ NC A5 B5 Jxx_Ch1_Out05 $L$ NC A6 B6 Jxx_Ch1_Out05 $L$ NC A7 B7 COM	Circuit Configuration	• The signal names of the terminals are the device variable names.								
<ul> <li>The signal names of the terminals are the device variable names.</li> <li>The device variable names are the names that use "Jxx" as the device name.</li> </ul>	and terminal-device	<ul> <li>tor pin* name</li> <li>NC</li> <li>A0</li> <li>B0</li> <li>Jxx_Ch1_Out00</li> <li>L</li> <li>NC</li> <li>A2</li> <li>B2</li> <li>Jxx_Ch1_Out02</li> <li>L</li> <li>NC</li> <li>A3</li> <li>B3</li> <li>Jxx_Ch1_Out03</li> <li>L</li> <li>C</li> <li>A4</li> <li>B4</li> <li>Jxx_Ch1_Out04</li> <li>L</li> <li>C</li> <li>A5</li> <li>B5</li> <li>Jxx_Ch1_Out06</li> <li>L</li> <li>NC</li> <li>A6</li> <li>B6</li> <li>Jxx_Ch1_Out06</li> <li>L</li> <li>NC</li> <li>A7</li> <li>B7</li> <li>COM</li> </ul> • 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)

<sup>7</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.

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 $\Omega$ 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 (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 $\Omega$ between the external terminals and the GR terminal (100 VDC) **Dielectric Strength** 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Number of Circuits 16 (16 points/common, 1 circuit) Internal Current 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 -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 $\Omega$ between the external terminals and the GR terminal (100 VDC) **Dielectric Strength** 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. Number of Circuits 16 (16 points/common, 1 circuit) Internal Current 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

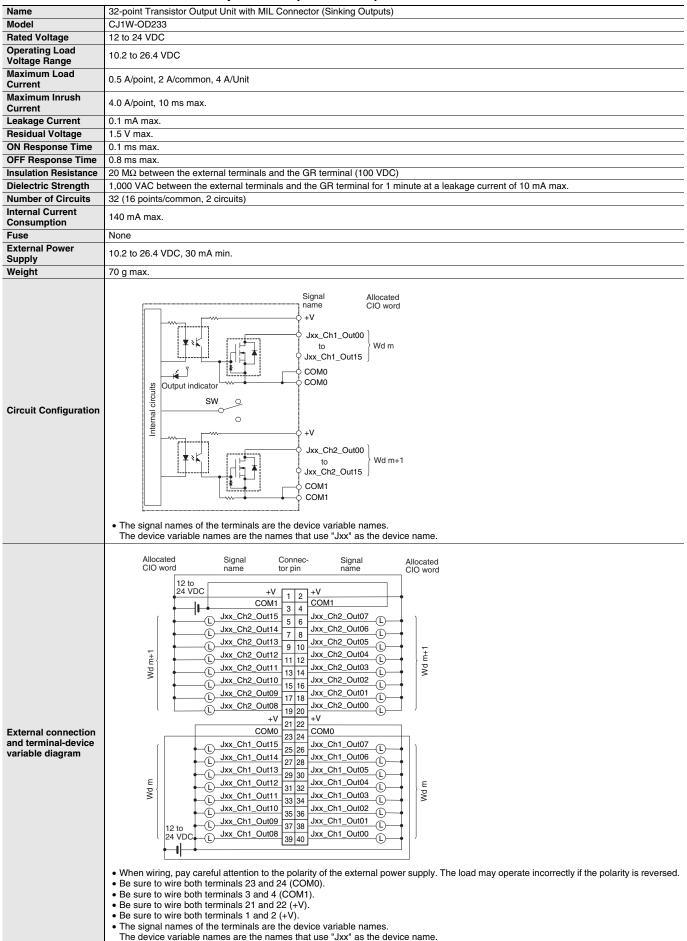
### CJ1W-OD213 Transistor Output Unit (16 Points)

the Units.

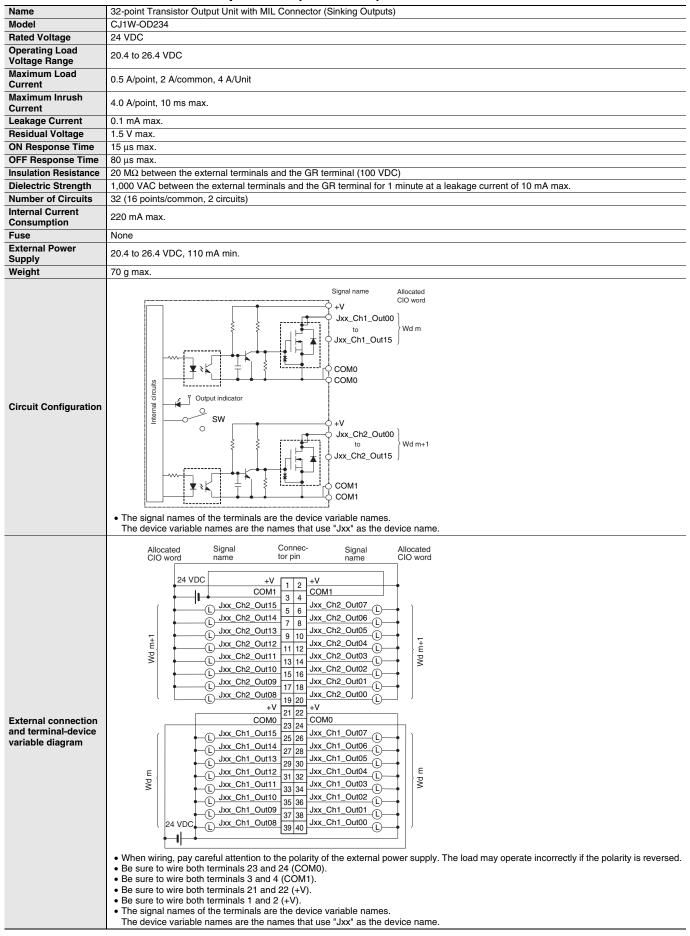
## CJ1W-OD231 Transistor Output Unit (32 Points)

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	.5 A/point, 2.0 A/common, 4.0 A/ont								
Maximum Inrush Current	0 A/point, 10 ms max.								
Leakage Current	1 mA max.								
Residual Voltage	1.5 V max.								
ON Response Time	0.1 ms max.								
OFF Response Time Insulation Resistance	0.8 ms max. 20 MΩ between the external terminals and the GR terminal (100 VDC)								
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.								
Number of Circuits	32 (16 points/common, 2 circuits)								
Internal Current	5 VDC 140 mA max.								
Consumption									
Fuse External Power									
Supply	.2 to 26.4 VDC, 30 mA min.								
Weight	70 g max.								
Accessories	None								
Circuit Configuration	Signal Allocated name CiO word +V Jxx_Ch1_Out00 to Jxx_Ch1_Out15 Wd m Connector row A Connector row A Connector row A 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								
	<ul> <li>Be sure to wire both terminals B9 and B19 (COM1).</li> <li>Be sure to wire both terminals A10 and A20 (+V).</li> <li>Be sure to wire both terminals B10 and B20 (+V).</li> <li>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.</li> </ul>								

## CJ1W-OD233 Transistor Output Unit (32 Points)



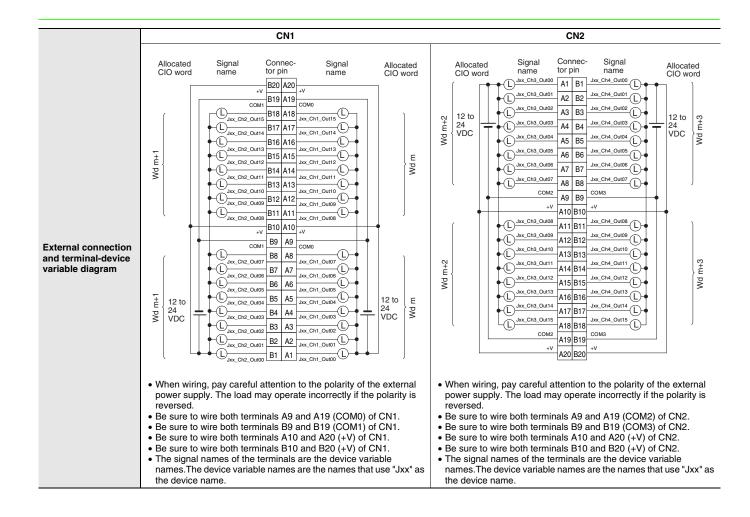
## CJ1W-OD234 Transistor Output Unit (32 Points)



#### 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 $\Omega$ 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 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 <sup>↓</sup>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)

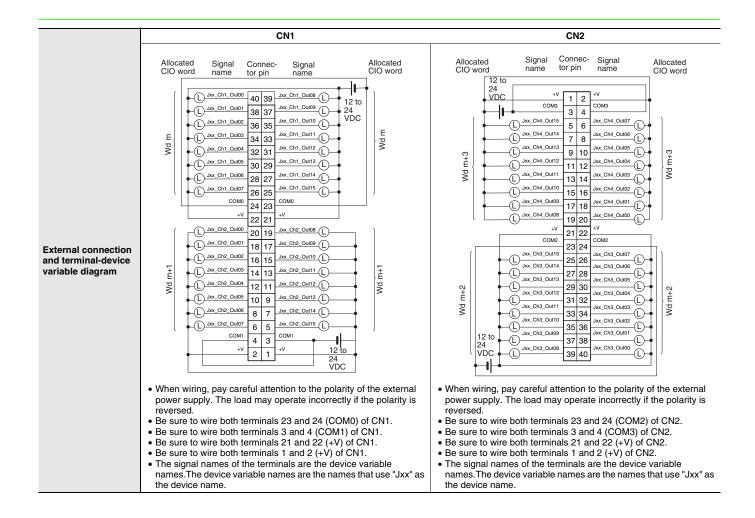
# CJ1W-OC/OA/OD



# 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 $\Omega$ 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	64 (16 points/common, 4 circuits)					
Internal Current Consumption	70 mA max.					
Fuse	None					
External Power Supply	10.2 to 26.4 VDC, 50 mA min.					
Weight	110 g max.					
Circuit Configuration	Signal name ClO word Clo wo					

# 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 $\Omega$ 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 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 Í. Jxx Ch1 Out03 Β1 (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)

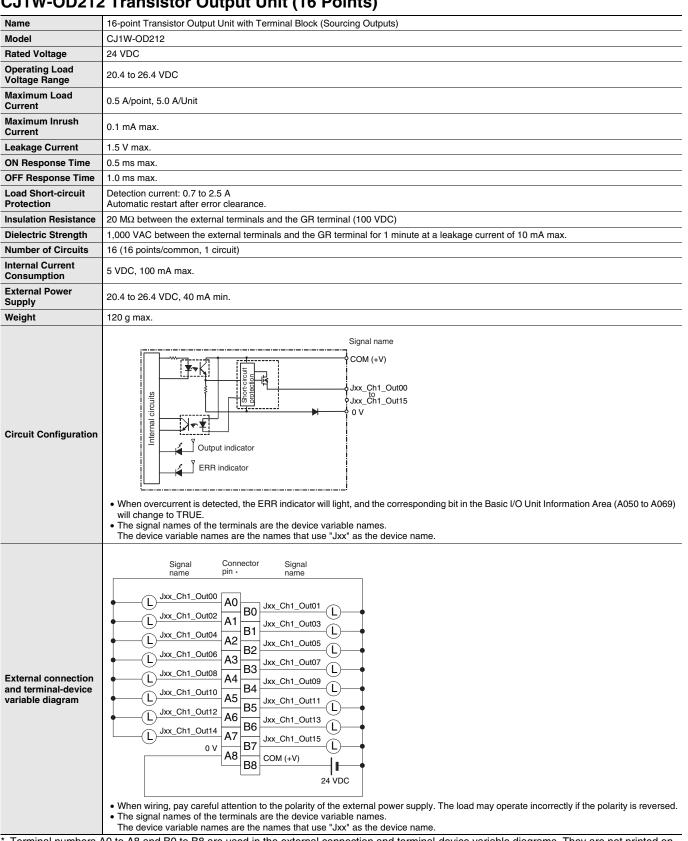
\* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

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 $\Omega$ 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 (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	<ul> <li>Signal name</li> <li>COM (+V)</li> <li>Jxx_Ch1_Out00</li> <li>Jxx_Ch1_Out07</li> <li>V</li> <li>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.</li> <li>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.</li> </ul>
External connection and terminal-device variable diagram	<ul> <li>Signal connector signal name tor pin signal name</li> <li>Jxx_Ch1_Out00</li> <li>Jxx_Ch1_Out01</li> <li>Jxx_Ch1_Out02</li> <li>A1 B0</li> <li>Jxx_Ch1_Out03</li> <li>Jxx_Ch1_Out04</li> <li>A2 B2</li> <li>Jxx_Ch1_Out05</li> <li>Jxx_Ch1_Out06</li> <li>A3 B3</li> <li>NC</li> <li>NC</li> <li>A5 B5</li> <li>NC</li> <li>NC</li> <li>A5 B5</li> <li>NC</li> <li>NC</li> <li>A5 B5</li> <li>NC</li> <li>NC</li> <li>A6 B4</li> <li>NC</li> <li>NC</li> <li>A5 B5</li> <li>NC</li> <li>NC</li> <li>A6 B6</li> <li>NC</li> <li>NC</li> <li>A7 B7</li> <li>COM (+V)</li> <li>Z4 VDC</li> <li>When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed</li> <li>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.</li> </ul>

\* 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.



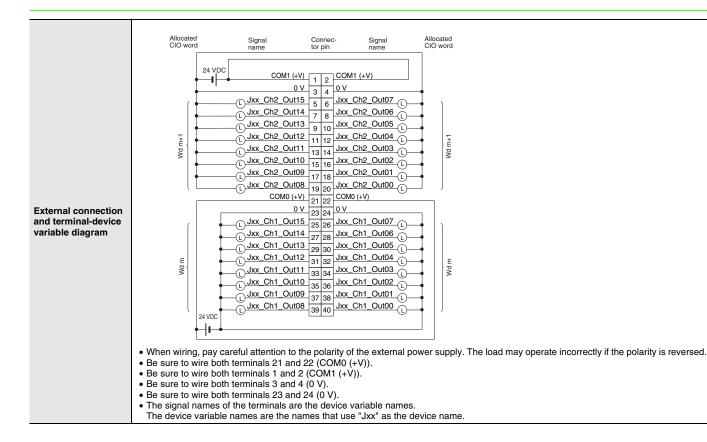
#### CJ1W-OD212 Transistor Output Unit (16 Points)

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)

32-point Transistor Output Unit with MIL Connector (Sourcing Outputs)	
CJ1W-OD232	
24 VDC	
20.4 to 26.4 VDC	
0.5 A/point, 2.0 A/common, 4.0 A/Unit	
0.1 mA max.	
1.5 V max.	
0.5 ms max.	
1.0 ms max.	
Detection current: 0.7 to 2.5 A Automatic restart after error clearance.	
20 M $\Omega$ 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.	
32 (16 points/common, 2 circuits)	
5 VDC 150 mA max.	
20.4 to 26.4 VDC, 70 mA min.	
80 g max.	
None	
<ul> <li>Signal name Allocated CIO word</li> <li>COM0 (+V)</li> <li>Jxx_Ch1_Out00 } Wd m</li> <li>V</li> <li>Output indicator</li> <li>COM1 (+V)</li> <li>C</li></ul>	

# 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	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 $\Omega$ 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	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	<ul> <li>Signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</li> </ul>