CJ-series Mixed I/O Units

CJ1W-MD

CSM CJ1W-MD DS F 9 3

A Wide Range of Basic Mixed I/O Units for Different Applications and Wiring Methods

 One Mixed I/O Unit has connectors for both inputs and outputs. Use Mixed I/O Units to easily build space-saving systems.







CJ1W-MD231

CJ1W-MD261

CJ1W-MD563

Features

- Select the best interface for each application: Fujitsu connectors and MIL connectors.
- Select sinking outputs or sourcing outputs. The CJ1W-MD232 has load short-circuit protection.
- The ON and OFF response times can be set to between 0 and 32 ms in the Setup in the CPU Unit.
- Mixed I/O Units with 5-V TTL inputs are also available. *
- A wide variety of Connector-Terminal Block Conversion Units are available to allow you to easily wire external I/O devices.
- * Applies to the CJ1W-MD563.

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.

Mixed I/O Units

				Specification	ons			consu	rent mption A)		
Unit type	Product name	Output type	I/O points	Input voltage, Input current	Commons	External	No. of words	5 V	24 V	Model	Standards
			70 points	Maximum switching capacity		connection	allocated	3 V	24 V		
		Sinking	16 inputs	24 VDC, 7 mA	16 points, 1 common	Fujitsu	2 words	0.13	_	CJ1W-MD231	UC1, N,
	DC Input/ Transistor	Siriking	16 outputs	250 VAC/24 VDC, 0.5 A	16 points, 1 common	connector	2 words	0.13	_	CJ I W-WD23 I	CE
	Output Units	Sinking	16 inputs	24 VDC, 7 mA	16 points, 1 common	MIL	2 words	0.13	_	CJ1W-MD233	
		Siriking	16 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	connector	2 words	0.13	_	CJ I W-WD233	
		Sinking	32 inputs	24 VDC, 4.1 mA	16 points, 1 common	Fujitsu	4 words	0.14	_	CJ1W-MD261	UC1, N,
	3.50	Silking	32 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	connector	4 words	0.14	_	CJ I W-WD261	CE
CJ1 Basic		Sinking	32 inputs	24 VDC, 4.1 mA	16 points, 1 common	MIL connector	4 words	0.14		CJ1W-MD263	
I/O Units	9	Sinking	32 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common		4 words	0.14	_	CJ I W-IVID203	
	3.30	Sourcing	16 inputs	24 VDC, 7 mA	16 points, 1 common	MIL	2 words	0.13		CJ1W-MD232	UC1, N, L,
		Sourcing	16 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	connector	2 words	0.13	_	CJ I W-WD232	CE
	TTL I/O Units		32 inputs	5 VDC, 35 mA	16 points, 1 common	MIL			_		UC1, N,
			32 outputs	5 VDC, 35 mA	16 points, 1 common	connector	4 words	0.19		CJ1W-MD563	CE CE

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	
	Soldered	FCN-361J024-AU FCN-360C024-J2	Connector Connector Cover		C500-CE241	_
24-pin Connectors	Crimped	FCN-363J024 Socket FCN-363J-AU Contactor FCN-360C024-J2 Connector Cover elded FCN-367J024-AU/F		Fujitsu Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit	C500-CE242	
	Pressure welded				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 (32 inputs): 1 per Unit CJ1W-OD232/233 (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	0-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 20 for details.

Applicable Connector-Terminal Block Conversion Units

			Number	Terminal		Size		Моц	ınting	Common	Bleeder			
Туре	Series	I/O	of poles	type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws	terminals	resistance	Indicators	Model	Standards
			20				79						XW2D-20G6	
		I/O									No		XW2D-40G6	
Slim	XW2D		40	M3	39	40	149	Yes	s Yes	No		No	XW2R-J40G-T	
		Input	40				149				Built-in		XW2D-40G6-RF	
		only									Duit-iii		XW2D-40G6-RM	
				M3.5			112.5						XW2B-20G5	
Thursday	VIMOD	I/O	20	M3 (European type)	45	45.0	67.5	Yes	Yes	N	N-	N-	XW2B-20G4	
Through	XW2B	1/0		M3.5	45	45.3	202.5	res	res	No	No	No	XW2B-40G5	
			40	M3 (European type)	=	135						XW2B-40G4	_	
With		I/O	20	МЗ	39	40	149					No	XW2C-20G6-IO16	
common terminals	XW2C	Input only	20	M3.5	50	38	160	Yes	Yes	Yes	No	Yes	XW2C-20G5-IN16	
With common terminals, 3-tier	XW2E	Inputs only, 3 tiers	20	M3.5	50	53	149	Yes	Yes	Yes	No	No	XW2E-20G5-IN16	
Screwless clamp	XW2F	Input only	20	Clamp	50	40	95.5	Yes	Yes	Yes	No	No	XW2F-20G7-IN16	
terminals	AVV2F	Outputs only	20	Clamp	50	40	95.5	Yes	Yes	Yes	No	No	XW2F-20G7-OUT16	
e-CON	XW2N	Input only	20	e-CON connector	50	40	95.5	Yes	Yes	Yes	No	No	XW2N-20G8-IN16	

Applicable I/O Relay Terminals

						Specific	ations				(horizon ounting)		Mou	inting		
Туре	Type Series		Classification		Polarity	Number of points	Rated ON current at contacts	Operation indicators	Terminal block for power supply wiring	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standards
		Vertical		Relay outputs		16	5A or 3A								G70D-VSOC16	11.0
		type G70D-V		MOSFET relay outputs	NPN	(SPST- NO × 16)	0.3A	Yes	Expandable	135	46	81	Yes	Yes	G70D-VFOM16	U, C, CE
						8 (SPST- NO × 8)	5A			68	93	44			G70D-SOC08	_
Space- saving	G70D	Flat	Outputs	Relay outputs	NPN	16 (SPST- NO × 16)	3A				56 51 39			G70D-SOC16		
		type G70D			PNP	16 (SPST- NO × 16)	3A	Yes	-	156		39	Yes	Yes	G70D-SOC16-1	
				MOSFET relay	NPN	16 (SPST-	0.3A								G70D-FOM16	_
				outputs	PNP	NO × 16)	0.57							G70D-FOM16-1		
High- capacity, space- saving	G70R		Outputs	Relay outputs	NPN	8 (SPST- NO × 8)	10A	Yes	_	136	93	55	Yes	Yes	G70R-SOC08	-
				AC inputs	NIDAL	16	4.0			100				6 -	G7TC-IA16	
			Inputs	DC inputs	NPN	(SPST- NO × 16)	1A			182					G7TC-ID16	
Standard	G7TC					8 (SPST- NO × 8)		Yes	_	102	85	68	Yes		G7TC-OC08	U, C
Claridara	a, ro		Outputs	Relay outputs	NPN	16 (SPST- NO × 16)	5A	100		182	00	00	100		G7TC-OC16	
					PNP	16 (SPST- NO × 16)				102					G7TC-OC16-1	-
High-	G70A		0.11-	Relay	NPN	16 (SPDT× 16	10 A (Terminal	N		004		0.4			G70A-ZOC16-3 (Socket only) + Relay/SSR/ MOSFET Relay/ Timer	U, C,
socket	capacity (Sock		Outputs Helay output		PNP	possible with G2R Relays)	block allowable current)	No	_	234	75	64	Yes	_	G70A-ZOC16-4 (Socket only) + Relay/SSR/ MOSFET Relay/ Timer	CE

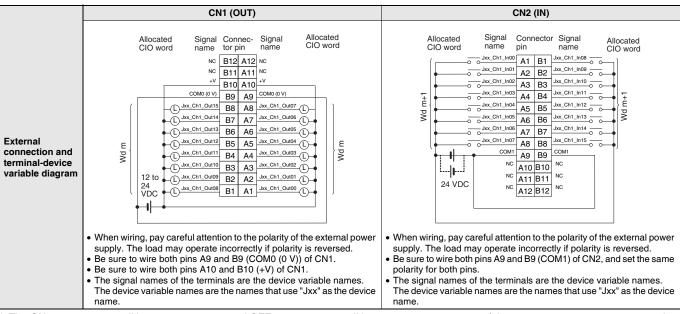
Mountable Racks

	NJ system		CJ system (CJ1, CJ2)		CP1H system	NSJ system	
Model	CPU Rack	Expansion Rack	CPU Rack	Expansion Backplane	CP1H PLC	NSJ Controller	Expansion Backplane
CJ1W-MD231							
CJ1W-MD232	- 10 Units		10 Units	10 Units (Per Expansion Backplane)	Not supported	Not supported	10 Units (Per Expansion Backplane)
CJ1W-MD233		10 Units					
CJ1W-MD261		(Per Expansion Rack)					
CJ1W-MD263							
CJ1W-MD563							

Specifications

CJ1W-MD231 DC Input/Transistor Output Unit (24 VDC, 16 Inputs/16 Outputs)

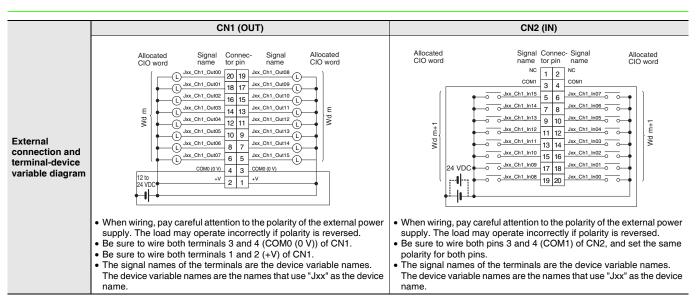
Name	16-point DC Input/16-point Transistor Output Unit with Fujitsu Connecto	ors (Sinking Outputs)					
Model	CJ1W-MD231						
Output section (C	N1)	Input section (CN2)					
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC				
Operating Load Voltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC				
Maximum Load Current	0.5 A/point, 2.0 A/Unit	Input Impedance	3.3 kΩ				
Maximum Inrush Current	4.0 A/point, 10 ms max.	Input Current	7 mA typical (at 24 VDC)				
Leakage Current	0.1 mA max.	ON Voltage/ON Current	14.4 VDC min./3 mA min.				
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.				
ON Response Time	0.1 ms max.	ON Pagnance Time	8.0 ms max. (Can be set to between 0 and 32 in				
OFF Response Time	0.8 ms max.	ON Response Time	the Setup.) *				
No. of Circuits	16 (16 points/common, 1 circuit)	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in				
Fuse	None	Time	the Setup.) *				
External Power Supply	12 to 24 VDC, 20 mA min.	No. of Circuits Number of Simultaneously ON Points	16 (16 points/common, 1 circuit) 75% (at 24 VDC)				
Insulation Resistance	20 M Ω min. between the external terminals and the GR terminal (at 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.						
Internal Current Consumption	5 VDC 130 mA max.						
Weight	90 g max.						
Accessories	None						
Circuit Configuration	Signal name Allocated CIO word +V Jxx_Ch1_Out00 to Jxx_Ch1_Out07 Wd m Connect or row A Connect or row B Connect or row B	Ambien 16 po NO Aismoeurantamus po 10 18 14 15 16 10 10 10 10 10 10 10	CN2 (IN) Signal name Jxx_Ch1_In00 3.3 kΩ Input indicator Jxx_Ch1_In07 COM1 Input indicator Jxx_Ch1_In15 COM1 Input indicator Jxx_Ch1_In15 COM1 Input voltage: 24 VDC Input voltage: 24 VDC Input voltage: 26 4 VDC 12 points at 55°C 9 points at 55°C				
	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.	The signal names of	Ambient Temperature of the terminals are the device variable names. names are the names that use "Jxx" as the device				



 $^{^*}$ The ON response time will be 20 μ s maximum and OFF response time will be 400 μ s maximum even if the response times are set to 0 ms due to internal element delays.

CJ1W-MD233 DC Input/Transistor Output Unit (24 VDC, 16 Inputs/16 Outputs)

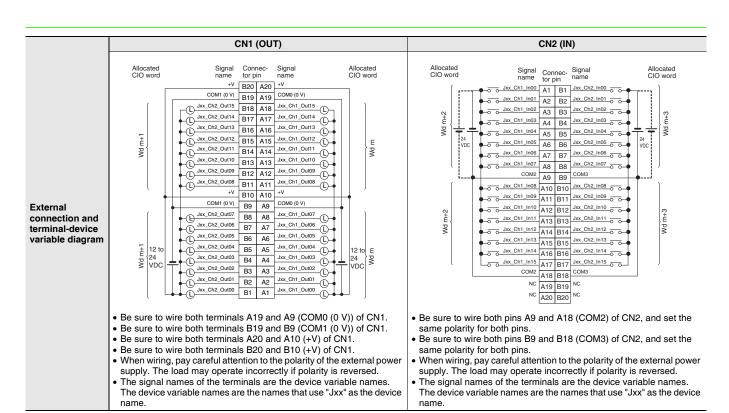
Madal	O MANA MEDODO					
Model	CJ1W-MD233	(2)(2)				
Output section (C	N1)	Input section (CN2)				
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC			
Operating Load Voltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC			
Maximum Load Current	0.5 A/point, 2.0 A/Unit	Input Impedance	3.3 kΩ			
Maximum Inrush Current	4.0 A/point, 10 ms max.	Input Current	7 mA typical (at 24 VDC)			
Leakage Current	0.1 mA max.	ON Voltage/ON Current	14.4 VDC min./3 mA min.			
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.			
ON Response Time	0.1 ms max.	ON Page Time	8.0 ms max. (Can be set to between 0 and 32 in			
OFF Response Time	0.8 ms max.	ON Response Time	the Setup.) *			
No. of Circuits	16 (16 points/common, 1 circuit)	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in			
Fuse	None	Time	the Setup.) *			
		No. of Circuits	16 (16 points/common, 1 circuit)			
External Power Supply	12 to 24 VDC, 20 mA min.	Number of Simultaneously ON Points	75% (at 24 VDC)			
Insulation Resistance	20 MΩ min. between the external terminals and the GR terminal (at 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.					
Internal Current Consumption	5 VDC 130 mA max.					
Weight	90 g max.					
Accessories	None					
	CN1 (OUT)		CN2 (IN)			
Circuit Configuration	Signal name Allocated CIO word +V Jxx_Ch1_Out00 to Jxx_Ch1_Out07 Wd m Jxx_Ch1_Out08 to Jxx_Ch1_Out18 Wd m COM0	CIO word	gnal name Ch1_In00 Ch1_In07 COM1 Input indicator Ch1_In08 Ch1_In15 COM1 COM			
		Ambient Ter	isimultaneously ON Points vs. mperature Characteristic ts at 33°C 16 points at 45°C Input voltage: 24 VDC Input voltage: 26.4 VDC 12 points at 55°C 9 points at 55°C Ambient Temperature			
	The signal names of the terminals are the device variable names.	The signal names of	of the terminals are the device variable names.			



The ON response time will be 20 μ s maximum and OFF response time will be 400 μ s maximum even if the response times are set to 0 ms due to internal element delays.

CJ1W-MD261 DC Input/Transistor Output Unit (24 VDC 32 Inputs/32 Outputs)

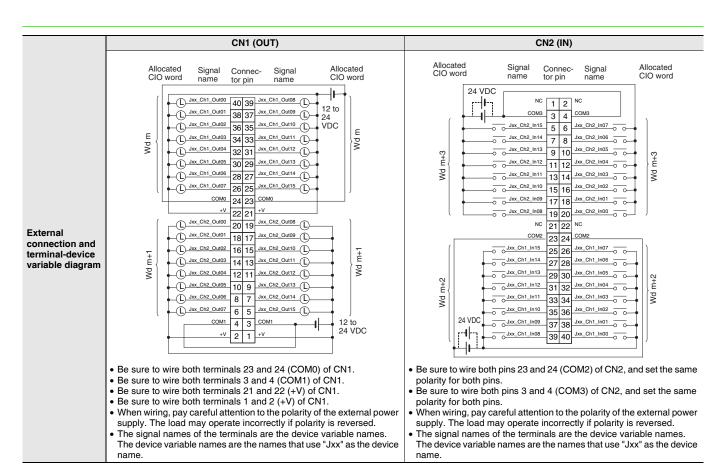
Name	32-point DC Input/32-point Transistor Output Unit with Fujitsu Connecto	rs (Sinking Outputs)					
Model	CJ1W-MD261	I (ONO)					
Output section (C	N1)	Input section (CN2)					
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC				
Operating Load Voltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC				
Maximum Load Current	0.3 A/point, 1.6 A/common, 3.2 A/Unit	Input Impedance	5.6 kΩ				
Maximum Inrush Current	3.0 A/point, 10 ms max.	Input Current	4.1 mA typical (at 24 VDC)				
Leakage Current	0.1 mA max.	ON Voltage/ON Current	19.0 VDC min./3 mA min. *2				
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.				
ON Response Time	0.5 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in				
OFF Response Time	1.0 ms max.	ON Heaponse Time	the Setup.) *1				
No. of Circuits	32 (16 points/common, 2 circuits)	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in				
Fuse	None	Time	the Setup.) *1				
		No. of Circuits	32 (16 points/common, 2 circuits)				
External Power Supply	12 to 24 VDC, 30 mA min.	Number of Simultaneously ON Points	75% (24 points) (at 24 VDC)				
Insulation Resistance	20 M Ω min. between the external terminals and the GR terminal (at 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.						
Internal Current Consumption	5 VDC 140 mA max.						
Weight	110 g max.						
Accessories	None	-					
Circuit Configuration	Signal name CIO word Nov. Ch1_0u100 Nov. Ch2_0u100 Nov. Ch2		COM2 Indicator switch o Input indicator 5.6 kΩ Jox_Ch2_Ino0 1.00 1.				
	Number of Simultaneo Ambient Temperature (32 points at 38°C) 35 36 NO 26 no 20 20 Ambient Temperature (32 points at 38°C) 35 o 20 Ambient Temperature (34 points at 38°C) 35 o 20 Ambient Temperature (36 points at 38°C)	Characteristic 32 points at 44°C Input voltage: 24 VDC Input voltage: 26.4 VDC 12 points/ common at 55°C 8 points/ common at 55°C 40°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C 1					



- *1. The ON response time will be 120 μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.
- *2. Observe the following restrictions when connecting to a 2-wire sensor.
 - Make sure the input power supply voltage is larger than the ON voltage (19 V) plus the residual voltage of the sensor (approx. 3 V).
 - Use a sensor with a minimum load current of 3 mA min.
 - Connect bleeder resistance if you connect a sensor with a minimum load current of 5 mA or higher.

CJ1W-MD263 DC Input/Transistor Output Unit (24 VDC 32 Inputs/32 Outputs)

Name	32-point DC Input/32-point Transistor Output Unit with MIL Connectors	(Sinking Outputs)					
Model	CJ1W-MD263	(Citting Catputo)					
Output section (C		Input section (CN2)					
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC				
Operating Load Voltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC				
Maximum Load Current	0.3 A/point, 1.6 A/common, 3.2 A/Unit	Input Impedance	5.6 kΩ				
Maximum Inrush Current	3.0 A/point, 10 ms max.	Input Current	4.1 mA typical (at 24 VDC)				
Leakage Current	0.1 mA max.	ON Voltage/ON Current	19.0 VDC min./3 mA min. *2				
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.				
ON Response Time	0.5 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in				
OFF Response Time	1.0 ms max.	ON Hesponse Time	the Setup.) *1				
No. of Circuits	32 (16 points/common, 2 circuits)	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in				
Fuse	None	Time	the Setup.) *1				
		No. of Circuits	32 (16 points/common, 2 circuits)				
External Power Supply	12 to 24 VDC, 30 mA min.	Number of Simultaneously ON Points	75% (24 points) (at 24 VDC)				
Insulation Resistance	$20~\text{M}\Omega$ min. between the external terminals and the GR terminal (at 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.						
Internal Current Consumption	5 VDC 140 mA max.						
Weight	110 g max.						
Accessories	None						
Circuit Configuration	omultaneously ON pc 92 92 92 92 92 92 92 92 92 92 92 92 92	Wd m+2 Jxx_C Wd m+3 Jxx_C The signal names of The device variable name.	Signal name h1_In10				
	Number of State of St	common at 55°C					

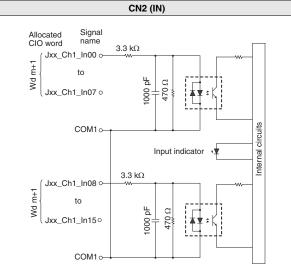


- *1. The ON response time will be 120 μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.
- *2. Observe the following restrictions when connecting to a 2-wire sensor.
 - Make sure the input power supply voltage is larger than the ON voltage (19 V) plus the residual voltage of the sensor (approx. 3 V).
 - Use a sensor with a minimum load current of 3 mA min.
 - Connect bleeder resistance if you connect a sensor with a minimum load current of 5 mA or higher.

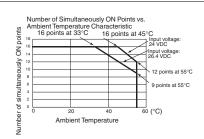
CJ1W-MD232 DC Input/Transistor Output Unit (24 VDC, 16 inputs/16 Outputs)

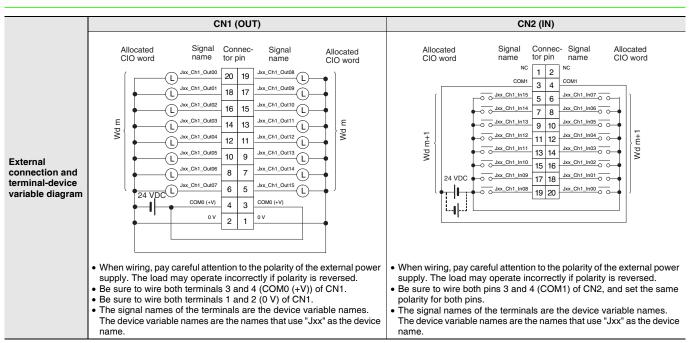
Name	16-point DC Input/16-point Transistor Output Unit with MIL Connectors (Sourcing Outputs)							
Model	CJ1W-MD232							
Output section (C	N1)	Input section (CN2)						
Rated Voltage	24 VDC	Rated Input Voltage	24 VDC					
Operating Load Voltage Range	20.4 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC					
Maximum Load Current	0.5 A/point, 2.0 A/Unit	Input Impedance	3.3 kΩ					
Leakage Current	0.1 mA max.	Input Current	7 mA typical (at 24 VDC)					
Residual Voltage	1.5 V max.	ON Voltage/ON Current	14.4 VDC min./3 mA min.					
ON Response Time	0.5 ms max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.					
OFF Response Time	1.0 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *					
Load Short- circuit Protection	Detection current: 0.7 to 2.5 A min. Automatic restart after error clearance.	OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *					
No. of Circuits	16 (16 points/common, 1 circuit)	No. of Circuits	16 (16 points/common, 1 circuit)					
External Power Supply	20.4 to 26.4 VDC, 40 mA min.	Number of Simultaneously ON Points	75% (at 24 VDC)					
Insulation Resistance	$20~\text{M}\Omega$ min. between the external terminals and the GR terminal (at 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.							
Internal Current Consumption	5 VDC 130 mA max.							
Weight	100 g max.							
Accessories	None							

Circuit Configuration Circuit Configuration



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

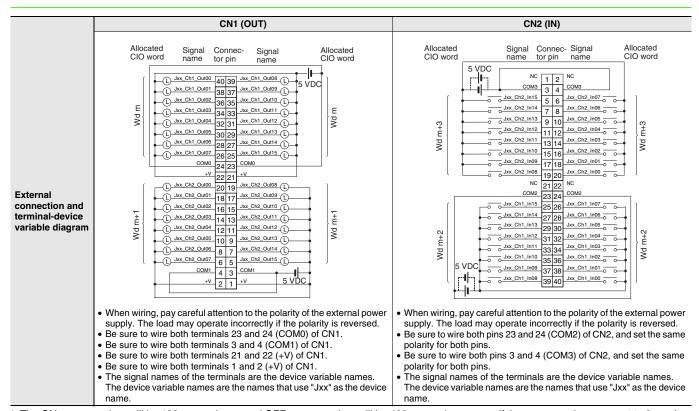




^{*} The ON response time will be 20 μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.

CJ1W-MD563 TTL I/O Unit (32 Inputs/32 Outputs)

Name	32-point Input /32-point Output TTL I/O Unit with MIL Connectors				
Model	CJ1W-MD563				
Output section (C	N1)	Input section (CN2)			
Rated Voltage	5 VDC±10%	Rated Input Voltage	5 VDC±10%		
Operating Load Voltage Range	4.5 to 5.5 VDC	Input Impedance	1.1 kΩ		
Maximum Load Current	35 mA/point, 560 mA/common, 1.12 A/Unit	Input Current	Approx. 3.5 mA (at 5 VDC)		
Leakage Current	0.1 mA max.	ON Voltage	3.0 VDC min.		
Residual Voltage	0.4 V max.	OFF Voltage	1.0 VDC max.		
ON Response Time	0.2 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
OFF Response Time	0.3 ms max.	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
No. of Circuits	32 points (16 points/common, 2 circuits)		and Colupty		
Fuse	None	No. of Circuits	32 points (16 points/common, 2 circuits)		
External Power Supply	5 VDC±10%, 40 mA min. (1.2 mA × No. of ON points)	Number of Simultaneously ON Points	100% (16 points/common)		
Insulation Resistance	$20~\text{M}\Omega$ min. between the external terminals and the GR terminal (at 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.				
Internal Current Consumption	5 VDC 190 mA max.				
Weight	110 g max.				
Accessories	None				
	CN1 (OUT)		CN2 (IN)		
Circuit Configuration	* The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.		Signal name Ch1_In00 Ch1_In15 COM2 Ch2_In00 Ch2_In15 COM3 The terminals are the device variable names. names are the names that use "Jxx" as the device		



^t The ON response time will be 120 μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.

Bit Allocations for Mixed I/O Unit

32-point Mixed I/O Unit

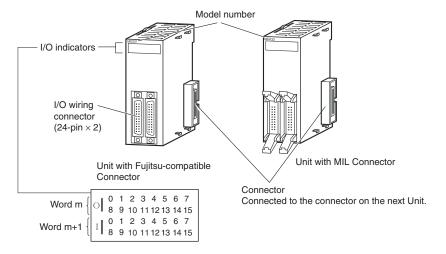
Allocated CIO word		Cinnal name (C I/N I)	
CIO	Bit	Signal name (CJ/NJ)	
	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	:	:	
(Output)	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
Wd m+1 (Input)	00	IN0/Jxx_Ch1_In00	
	01	IN1/Jxx_Ch1_In01	
	:	:	
	14	IN14/Jxx_Ch1_In14	
	15	IN15/Jxx_Ch1_In15	

64-point Mixed I/O Unit

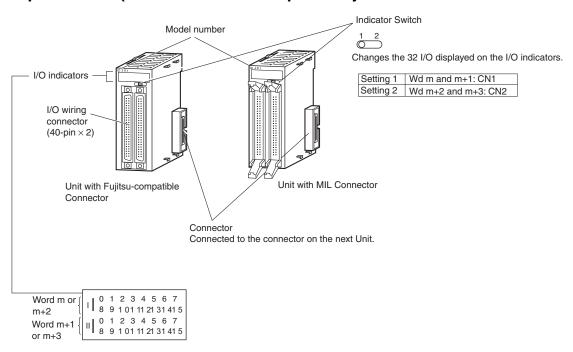
Allocated CIO word		0:	
CIO	Bit	Signal name (CJ/NJ)	
	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	:	:	
(Output)	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
	00	OUT0/Jxx_Ch2_Out00	
	01	OUT1/Jxx_Ch2_Out01	
Wd m+1 (Output)	:	:	
(Galpai)	14	OUT14/Jxx_Ch2_Out14	
	15	OUT15/Jxx_Ch2_Out15	
	00	IN0/Jxx_Ch1_In00	
	01	IN1/Jxx_Ch1_In01	
Wd m+2 (Input)	:	:	
(p)	14	IN14/Jxx_Ch1_In14	
	15	IN15/Jxx_Ch1_In15	
	00	IN0/Jxx_Ch2_In00	
	01	IN1/Jxx_Ch2_In01	
Wd m+3 (Input)	:	:	
(pat)	14	IN14/Jxx_Ch2_In14	
	15	IN15/Jxx_Ch2_In15	

External Interface

32-point Units (Model with 24-pin \times 2 Fujitsu Connectors or with 20-pin \times 2 MIL Connectors)



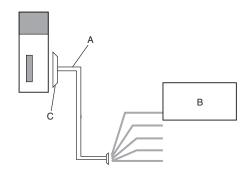
64-point Units (Models with Two 40-point Fujitsu Connectors or MIL Connector)



I/O Unit Wiring Methods

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

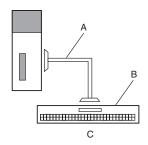
1. User-provided Cable An I/O Unit can be directly connected to an external device by using a connector.



Α	User-provided cable
В	External device
С	Connector

2. Connector-Terminal Block Conversion Unit

Use a Connecting Cable to connect to a Connector-Terminal Block Conversion Unit. Converting the I/O Unit connector to a screw terminal block makes it easy to connect external devices.

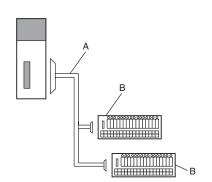


A	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2□
С	Conversion to a screw terminal block

3. I/O Relay Terminal

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

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



Α	G79 I/O Relay Terminal Connecting Cable
В	G7□□ I/O Relay Terminals 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-MD261	24-VDC Input/Transistor Output Units, 32 Inputs, 32 Outputs	40
CJ1W-MD231	24-VDC Input/Transistor Output Units, 16 Inputs, 16 Outputs	24

Applicable Cable-side Connectors

Connection	Pins	OMRON set	Fujitsu parts
40	40	C500-CE404	Socket: FCN-361J040-AU Connector cover: FCN-360C040-J2
Solder-type	24	C500-CE241	Socket: FCN-361J024-AU Connector cover: FCN-360C024-J2
40	C500-CE405	Socket: FCN-363J040 Connector cover: FCN-360C040-J2 Contacts: FCN-363J-AU	
Crimped	rimped 24	C500-CE242	Socket: FCN-363J024 Connector cover: FCN-360C024-J2 Contacts: FCN-363J-AU
Pressure-welded	40	C500-CE403	FCN-367J040-AU/F
	24	C500-CE243	FCN-367J024-AU/F

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

Model	Specifications	Pins
CJ1W-MD263	24-VDC Input/Transistor Output Units, 32 inputs, 32 outputs	40
CJ1W-MD563	TTL Input/TTL Output Units, 32 inputs, 32 outputs	40
CJ1W-MD232	24-VDC Input/Transistor Output Units, 16 inputs, 16 outputs	20
CJ1W-MD233	24-VDC Input/Transistor Output Units, 16 inputs, 16 outputs	20

Applicable Cable-side Connectors

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

^{*1.} Socket and Stain Relief set.

Wire Size

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

Crimping Tools

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

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

Tools for Pressure-welded Connectors (Fujitsu Component)

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

The following models are recommended for tools for OMRON MIL connectors. Tools for Pressure-welded Connectors (OMRON)

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

Tools for Crimped Connectors (OMRON)

Product Name	Model			
Manual Crimping Tool	XY2B-7007			

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

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

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units

Pattern	Configuration	Number of connectors	Branching
С	Connecting Cable Connector-Terminal Block Conversion Unit 20 terminals Connector-Terminal 20 terminals		None
D	Connecting Cable Connector-Terminal Block Conversion Unit 40 or 60 terminals Connector-Terminal Block Conversion Unit	2	Note
F	Connecting Cable with two branches Connector-Terminal Block Conversion Unit 20 terminals 20 terminals 20 terminals		2 branches

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

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern *1	Number of branches	Connecting Cable	Connector-Terminal Block Conversion Unit	Common terminal
				С	None	XW2Z-□□□A	XW2D-20G6	None
				С	None	XW2Z-□□□A	XW2B-20G5	None
				С	None	XW2Z-□□□A	XW2B-20G4	None
	16 innute	1 Fujitsu	NPN/PNP	С	None	XW2Z-□□□A	XW2C-20G6-IO16	Yes
	16 inputs	connector	INPIN/PINP	С	None	XW2Z-□□□A	XW2C-20G5-IN16 *2	Yes
				С	None	XW2Z-□□□A	XW2E-20G5-IN16 *2	Yes
CJ1W-MD231				С	None	XW2Z-□□□A	XW2F-20G7-IN16 *2	Yes
				С	None	XW2Z-□□□A	XW2N-20G8-IN16 *2	Yes
				С	None	XW2Z-□□□A	XW2D-20G6	None
		1 Fujitsu connector	NPN	С	None	XW2Z-□□□A	XW2B-20G5	None
	16 outputs			С	None	XW2Z-□□□A	XW2B-20G4	None
				С	None	XW2Z-□□□A	XW2C-20G6-IO16	Yes
				С	None	XW2Z-□□□A	XW2F-20G7-OUT16	Yes
				С	None	XW2Z-□□□X	XW2D-20G6	None
	16 inputs	1 MIL connector	NPN/PNP	С	None	XW2Z-□□□X	XW2B-20G5	None
CJ1W-MD232				С	None	XW2Z-□□□X	XW2B-20G4	None
CJ I W-MD232				С	None	XW2Z-□□□X	XW2D-20G6	None
	16 outputs	1 MIL connector	PNP	С	None	XW2Z-□□□X	XW2B-20G5	None
		Connector		С	None	XW2Z-□□□X	XW2B-20G4	None
				С	None	XW2Z-□□□X	XW2D-20G6	None
	16 inputs	1 MIL connector	NPN/PNP	С	None	XW2Z-□□□X	XW2B-20G5	None
CJ1W-MD233		5511166161		С	None	XW2Z-□□□X	XW2B-20G4	None
CJ I VV-IVID233				С	None	XW2Z-□□□X	XW2D-20G6	None
	16 outputs	1 MIL connector	NPN	С	None	XW2Z-□□□X	XW2B-20G5	None
		COMINCOLO		С	None	XW2Z-□□□X	XW2B-20G4	None

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern *1	Number of branches	Connecting Cable	Connector-Terminal Block Conversion Unit	Commo termina
				D	None	XW2Z-□□□B	XW2D-40G6	None
				D	None	XW2Z-□□□B	XW2D-40G6-RF *3	None
				D	None	XW2Z-□□□B	XW2B-40G5	None
				D	None	XW2Z-□□□B	XW2B-40G4	None
				D	None	XW2Z-□□□BU	XW2R-J40G-T	None
				F	2	XW2Z-□□□D	XW2D-20G6 (2 Units)	None
	32 inputs	1 Fujitsu connector	NPN/PNP	F	2	XW2Z-□□□D	XW2B-20G5 (2 Units)	None
		Connector		F	2	XW2Z-□□□D	XW2B-20G4 (2 Units)	None
				F	2	XW2Z-□□□D	XW2C-20G6-IO16 (2 Units)	Yes
				F	2	XW2Z-□□□D	XW2C-20G5-IN16 (2 Units) *2	Yes
				F	2	XW2Z-□□□D	XW2E-20G5-IN16 (2 Units) *2	Yes
J1W-MD261				F	2	XW2Z-□□□D	XW2F-20G7-IN16 (2 Units) *2	Yes
				F	2	XW2Z-□□□D	XW2N-20G8-IN16 (2 Units) *2	Yes
				D	None	XW2Z-□□□B	XW2D-40G6	None
				D	None	XW2Z-□□□B	XW2B-40G5	None
				D	None	XW2Z-□□□B	XW2B-40G4	None
				D	None	XW2Z-□□□BU	XW2R-J40G-T	None
	20 autouta	1 Fujitsu	NIDNI	F		XW2Z-□□□L		
	32 outputs	connector	NPN		2		XW2D-20G6 (2 Units)	None
				F	2	XW2Z-□□□L	XW2B-20G5 (2 Units)	None
				F	2	XW2Z-□□□L	XW2B-20G4 (2 Units)	None
				F	2	XW2Z-□□□L	XW2C-20G6-IO16 (2 Units)	Yes
				F	2	XW2Z-□□□L	XW2F-20G7-OUT16 (2 Units)	Yes
				D	None	XW2Z-□□□K	XW2D-40G6	None
				D	None	XW2Z-□□□K	XW2D-40G6-RM *3	None
				D	None	XW2Z-□□□K	XW2B-40G5	None
				D	None	XW2Z-□□□K	XW2B-40G4	None
				F	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
	32 inputs	1 MIL	NPN/PNP	F	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
	oz inputs	connector	INI IN/I INI	F	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
				F	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
				F	2	XW2Z-□□□N	XW2C-20G5-IN16 (2 Units) *2	Yes
NAME AND SOCI				F	2	XW2Z-□□□N	XW2E-20G5-IN16 (2 Units) *2	Yes
CJ1W-MD263				F	2	XW2Z-□□□N	XW2F-20G7-IN16 (2 Units) *2	Yes
				F	2	XW2Z-□□□N	XW2N-20G8-IN16 (2 Units) *2	Yes
				D	None	XW2Z-□□□K	XW2D-40G6	None
				D	None	XW2Z-□□□K	XW2B-40G5	None
				D	None	XW2Z-□□□K	XW2B-40G4	None
		1 MIL		F	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
	32 outputs	connector	NPN	F	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
		Connector		F	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
				F	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
				F	2	XW2Z-DDN	XW2F-20G7-OUT16 (2 Units)	Yes
				D	None	XW2Z-DDK	XW2D-40G6	None
				D	None	XW2Z-□□□K	XW2D-40G6-RM *3	None
	00.	1 MIL	NDN/Str	D	None	XW2Z-□□□K	XW2B-40G5	None
	32 inputs	connector	NPN/PNP	D	None	XW2Z-□□□K	XW2B-40G4	None
				F	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
				F	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
J1W-MD563				F	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
				D	None	XW2Z-□□□K	XW2D-40G6	None
				D	None	XW2Z-□□□K	XW2B-40G5	None
	20 custousta	1 MIL	NDN	D	None	XW2Z-□□□K	XW2B-40G4	None
	32 outputs	connector	NPN	F	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
				F	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
	I .			F	2	1	. ,	ļ

^{*1.} For Units with both inputs and outputs, refer to the connection patterns for both input and output connections.
*2. The inputs are NPN. For PNP inputs, reverse the polarity of the external power supply connections to the power supply terminals on the Connector-Terminal Block Conversion Unit.
*3. Bleeder resistance (5.6 kΩ) is built in.

Types of connecting cables

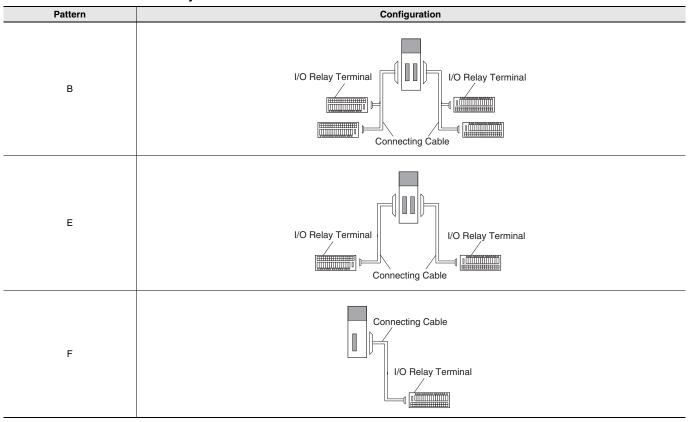
Cable length	XW2Z-□□A	XW2Z-□□B	XW2Z-□□BU	XW2Z-□□D	XW2Z-□□L	XW2Z-□□X	XW2Z-□□□K
0.25m	-	-	-	-	-	-	XW2Z-C25K
0.5m	XW2Z-050A	XW2Z-050B	XW2Z-050BU	-	-	XW2Z-C50X	XW2Z-C50K
1.0m	XW2Z-100A	XW2Z-100B	XW2Z-100BU	XW2Z-100D	XW2Z-100L	XW2Z-100X	XW2Z-100K
1.5m	XW2Z-150A	XW2Z-150B	XW2Z-150BU	XW2Z-150D	XW2Z-150L	-	XW2Z-150K
2.0m	XW2Z-200A	XW2Z-200B	XW2Z-200BU	XW2Z-200D	XW2Z-200L	XW2Z-200X	XW2Z-200K
3.0m	XW2Z-300A	XW2Z-300B	XW2Z-300BU	XW2Z-300D	XW2Z-300L	XW2Z-300X	XW2Z-300K
5.0m	XW2Z-500A	XW2Z-500B	XW2Z-500BU	XW2Z-500D	XW2Z-500L	XW2Z-500X	XW2Z-500K
10.0m	XW2Z-010A	XW2Z-010B	_	XW2Z-010D	XW2Z-010L	XW2Z-010X	-
15.0m	XW2Z-15MA	XW2Z-15MB	_	XW2Z-15MD	XW2Z-15ML	-	-
20.0m	XW2Z-20MA	XW2Z-20MB	_	XW2Z-20MD	XW2Z-20ML	-	-

Cab	Cable length					
Α	В	XW2Z-□□□N				
1.0m	0.75m	XW2Z-100N				
1.5m	1.25m	XW2Z-150N				
2.0m	1.75m	XW2Z-200N				
3.0m	2.75m	XW2Z-300N				
5.0m	4.75m	XW2Z-500N				
10.0m	9.75m	XW2Z-010N				
15.0m	14.75m	XW2Z-15MN				
20.0m	19.75m	XW2Z-20MN				

For details on Connecting Cables and Terminal Block Conversion Units, refer to your OMRON website.

3. Connecting I/O Relay Terminals

Connection Patterns for I/O Relay Terminals



Combination of I/O Units with I/O Relay Terminals

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern *	Number of branches	Connecting Cable	I/O Relay Terminal
	16 innute	1 Fuilteu connector	NPN	F	None	G79-□C	G7TC-ID16
	16 inputs	1 Fujitsu connector	INPIN	F	None	G79-□C	G7TC-IA16
				F	None	G79-□C	G7TC-OC16
				F	None	G79-□C	G7TC-OC08
				F	None	G79-□C	G70D-SOC16
CJ1W-MD231				F	None	G79-□C	G70D-FOM16
	16 outputs	1 Fujitsu connector	NPN	F	None	G79-□C	G70D-VSOC16
				F	None	G79-□C	G70D-VFOM16
				F	None	G79-□C	G70A-ZOC16-3 and Relay
				F	None	G79-□C	G70R-SOC08
				F	None	G79-□C	G70D-SOC08
		1 MIL connector	PNP	F	None	G79-O□C	G7TC-OC16-1
CJ1W-MD232	10			F	None	G79-I□C	G70D-SOC16-1
CJ I W-MD232	16 outputs			F	None	G79-I□C	G70D-FOM16-1
				F	None	G79-I□C	G70A-ZOC16-4 and Relay
	1C innute	1 MIL composter	NDN	Е	None	G79-O□C	G7TC-ID16
	16 inputs	1 MIL connector	NPN	E	None	G79-O□C	G7TC-IA16
				Е	None	G79-O□C	G7TC-OC16
				Е	None	G79-O□C	G7TC-OC08
				E	None	G79-O□C	G70D-SOC16
CJ1W-MD233				Е	None	G79-O□C	G70D-FOM16
	16 outputs	1 MIL connector	NPN	E	None	G79-O□C	G70D-VSOC16
				Е	None	G79-O□C	G70D-VFOM16
				Е	None	G79-O□C	G70A-ZOC16-3 and Relay
				E	None	G79-O□C	G70R-SOC08
				E	None	G79-O□C	G70D-SOC08

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern *	Number of branches	Connecting Cable	I/O Relay Terminal
	32 inputs 1 Fujitsu connector	1 Fullton connector	NPN	В	2	G79-I□C-□	G7TC-ID16
		INPIN	В	2	G79-I□C-□	G7TC-IA16	
				В	2	G79-O□C-□	G7TC-OC16
				В	2	G79O□C-□	G7TC-OC08
				В	2	G79-O□C-□	G70D-SOC16
CJ1W-MD261				В	2	G79-O□C-□	G70D-FOM16
	32 outputs	1 Fujitsu connector	NPN	В	2	G79-O□C-□	G70D-VSOC16
				В	2	G79-O□C-□	G70D-VFOM16
				В	2	G79O□C-□	G70A-ZOC16-3 and Relay
				В	2	G79-O□C-□	G70R-SOC08
				В	2	G79-O□C-□	G70D-SOC08
	20 innute	4.8411	NIDAL	В	2	G79-O□-□-D1	G7TC-ID16
	32 inputs	1 MIL connector	NPN	В	2	G79-O□-□-D1	G7TC-IA16
				В	2	G79-O□-□-D1	G7TC-OC16
				В	2	G79-O□-□-D1	G7TC-OC08
				В	2	G79-O□-□-D1	G70D-SOC16
CJ1W-MD263				В	2	G79-O□-□-D1	G70D-FOM16
	32 outputs	1 MIL connector	NPN	В	2	G79-O□-□-D1	G70D-VSOC16
				В	2	G79-O□-□-D1	G70D-VFOM16
				В	2	G79-O□-□-D1	G70A-ZOC16-3 and Relay
				В	2	G79-O□-□-D1	G70R-SOC08
				В	2	G79-O□-□-D1	G70D-SOC08

^{*} For Units with both inputs and outputs, refer to the connection patterns for both input and output connections.

Types of connecting cables

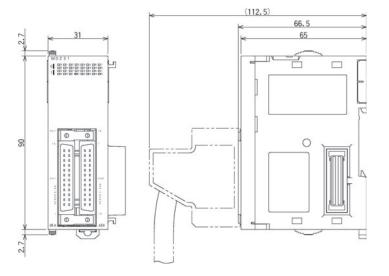
Cable length	G79-⊟C	G79-I□C	G79-I□C-□	G79-O□C	G79-O□C-□	G79-O□-□-D1
0.25m	-	G79-I25C	_	G79-O25C	_	-
0.5m	-	G79-I50C	-	G79-O50C	-	G79-O50-25-D1
1.0m	G79-100C		G79-I100C-75		G79-O100C-75	G79-O75-50-D1
1.5m	G79-150C	-	G79-I150C-125	_	G79-O150C-125	-
2.0m	G79-200C		G79-I200C-175		G79-O200C-175	-
3.0m	G79-300C		G79-I300C-275		G79-O300C-275	-
5.0m	G79-500C	-	G79-I500C-475	-	G79-O500C-475	_

Dimensions (Unit: mm)

32-point Units (Mixed I/O Units)

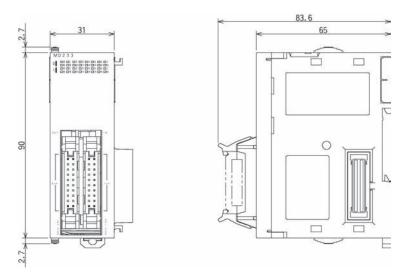
With Fujitsu-compatible connector (24-pin \times 2) CJ1W-MD231





With MIL connector (20-pin \times 2) CJ1W-MD232 CJ1W-MD233

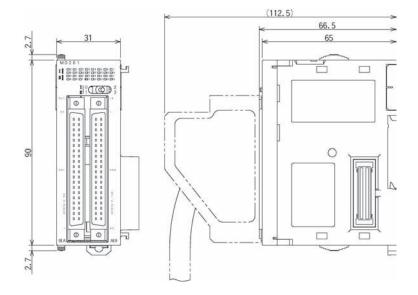




64-point Units (Mixed I/O Units)

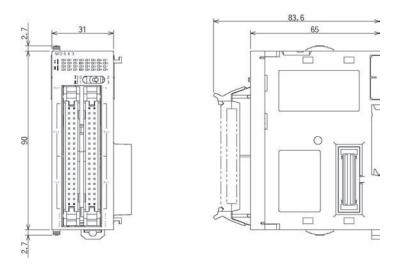
With Fujitsu-compatible connector (40-pin \times 2) CJ1W-MD261





With MIL connector (40-pin \times 2) CJ1W-MD263 CJ1W-MD563





Related Manuals

Name	Cat. No.	Contents
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).
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.
CJ-series CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□ CJ2 CPU Unit Hardware User's Manual	W472	Describes the following for CJ2 CPU Units: Overview and features Basic system configuration Part nomenclature and functions Mounting and setting procedure Remedies for errors Also refer to the Software User's Manual (W473).

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