CJ-series Input Units

CJ1W-ID/IA

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

- Receive ON/OFF signals from external devices into the PLC System to update I/O memory in the CPU Unit.
- New high-speed input models CJ1W-ID212 and CJ1W-ID233 are now available. These units can help to increase system throughput.







CJ1W-ID233

Features

- High-speed input models are available, meeting versatile applications. ON Response Time: 15µs, OFF Response Time: 90µs
- Use 24-VDC, 100-VAC, and 200-VAC models to connect to devices with different types of outputs.
- The 24-VDC models can be connected to devices with either NPN or PNP outputs. There is no need to select the polarity. *1
- A digital filter in the Unit can be set from 0 to 32 ms to reduce the influence of external noise.
- Either a Fujitsu or MIL connector interface can be used. *2
- Several models of Terminal Block Conversion Units are available, making it easy to connect to external devices.
- *1. The same polarity is used for the same common.
- *2. For models with 32 or 64 inputs.

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.

Input Units

Unit torna	Product		Sį	pecifications		consu	rent mption A)	Model	Standards	
Unit type	name	I/O points	Input voltage and current	Commons	External connection	No. of words allocated	5 V	24 V	Model	Standards
		8 inputs	12 to 24 VDC, 10 mA	Independent contacts	Removable terminal block	1 word	0.09	-	CJ1W-ID201	UC1, N, L,
	DC Input Units	16 inputs	24 VDC, 7 mA	16 points, 1 common	Removable terminal block	1 word	0.08	_	CJ1W-ID211	CE
		16 inputs (High speed)	24 VDC, 7 mA	16 points, 1 common	Removable terminal block	1 word	0.13	_	CJ1W-ID212	N, L, CE
		32 inputs	24 VDC, 4.1 mA	16 points, 1 common	Fujitsu connector	2 words	0.09	-	CJ1W-ID231	UC1, N, L,
		32 inputs	24 VDC, 4.1 mA	16 points, 1 common	MIL connector	2 words	0.09	-	CJ1W-ID232	CE
CJ1 Basic I/O Units	35.0	32 inputs (High speed)	24 VDC, 4.1 mA	16 points, 1 common	MIL connector	2 words	0.20	-	CJ1W-ID233	N, L, CE
		64 inputs	24 VDC, 4.1 mA	16 points, 1 common	Fujitsu connector	4 words	0.09	-	CJ1W-ID261	
	AN	64 inputs	24 VDC, 4.1 mA	16 points, 1 common	MIL connector	4 words	0.09	_	CJ1W-ID262	
	AC Input Units	8 inputs	200 to 24 VAC, 10 mA (200 V, 50 Hz)	8 points, 1 common	Removable Terminal Block	1 words	0.08	_	CJ1W-IA201	UC1, N, L, CE
		16 inputs	100 to 120 VAC, 7 mA (100 V, 50 Hz)	16 points, 1 common	Removable Terminal Block	1 words	0.09	-	CJ1W-IA111	

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

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 20 for details.

Applicable Connector-Terminal Block Conversion Units

		Number of	Number of	Wiring	Terminal		Size		Mou	nting	Common					
Туре	Series	connector poles	terminal block poles	method	type	Depth (mm)		Width (mm)		Screws	terminals	I/O Units	Model *	Standards		
				Push-In Plus								CJ1W-ID231 CJ1W-ID261	XW2K-40G-O32A			
	XW2K	40	36		Spring	75	39	40.8				CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2K-40G-O32C			
	AVV2K			Push-In Plus							Yes	CJ1W-ID231 CJ1W-ID261	XW2K-40G-O32A-IN			
		40	102		Spring	124	52.7	40.8				CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2K-40G-O32C-IN			
PLCs				Phillips screw						Yes	Yes	-		CJ1W-ID231 CJ1W-ID261	XW2R-J34GD-C1	_
		40	34		M3	130.7	50	48.05					CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-J34GD-C2		
	XW2R			Slotted screw (rise up)	M3								No	CJ1W-ID231 CJ1W-ID261	XW2R-E34GD-C1	
		40	34		(European type)	98.5	50	44.81						CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-E34GD-C2	

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

Connecting Cables for Connector-Terminal Block Conversion Units

Appearance	Connectors	Cable lenght [m]	Model
XW2Z-□□□B		0.5	XW2Z-050B
		1	XW2Z-100B
	One 40 pin Fuilten Connector to One 40 pin MII. Connector	1.5	XW2Z-150B
	One 40-pin Fujitsu Connector to One 40-pin MIL Connector	2	XW2Z-200B
		3	XW2Z-300B
		5	XW2Z-500B
(W2Z-□□□K		0.5	XW2Z-C50K
		1	XW2Z-100K
	One 40 pin MIL Connector to One 40 pin MIL Connector	1.5	XW2Z-150K
	One 40-pin MIL Connector to One 40-pin MIL Connector	2	XW2Z-200K
		3	XW2Z-300K
		5	XW2Z-500K

^{*} Representative models only. For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R series catalog (Cat. No. G077).

Applicable I/O Relay Terminals

				S	pecifications	3		Size (hor	izontal m	ounting)	Mou	nting					
Туре	Series	Class	ification	Polarity	Number of points	Rated ON current at contacts	Rated voltage	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standards			
				NPN									G70V-SID16P *4				
		Inputs	DC	PNP	16	50 m A							G70V-SID16P-1 *4				
Push-In	G70V		Inputs	Inputs	inputs	NPN	(SPSTNO × 16)	50 mA							G70V-SID16P-C16 *5	-	
Plus				PNP		24 VDC	143	90	56	Yes	Yes	G70V-SID16P-1-C16 *5	UC, CE (TÜV				
terminal		1		NPN			24 VDC	143	90	56	165	165	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		40		200/(220) VAC						G7TC-IA16 AC200/220				
		Inputs	DO	NPN	16 (SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12				
	G7TC						DC inputs		(6. 66 × 10)		24 VDC						G7TC-ID16 DC24
	0/10						100/110 VDC						G7TC-ID16 DC100/110				
Standard	Children .				8		12 VDC	102	85	68	Yes	No	G7TC-OC08 DC12	U, C			
	The same				NPN	(SPSTNO × 8)		24 VDC	102					G7TC-OC08 DC24			
		Outputs	Relay	INI IN	16	5A	12 VDC						G7TC-OC16 DC12				
		Outputs	outputs		(SPSTNO × 16)	JA	24 VDC	182					G7TC-OC16 DC24	1			
				PNP	16 (CDCTNO40)	2	12 VDC	102					G7TC-OC16-1 DC12				
				1 111	(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	10		Outpute	Relay	NPN	possible with G2R Relays)	10 A (Ter- minal	0.1.1/2.0	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)		
	1	Outputs	outputs	PNP		block al- lowable	24 VDC						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-	Flat type G70D	Outputs		NDN	8 (SPSTNO×8)	5 A	24 VDC	68	93	44			G70D-SOC08				
saving	Miller	·	Relay outputs	NPN	16 (SPSTNO × 16)	3 A							G70D-SOC16				
	5			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	-			
			MOSFET relay	NPN	16	0.3 A				33			G70D-FOM16				
	0700		outputs	PNP	(SPSTNO × 16)								G70D-FOM16-1 *7				
High- capacity, space- saving	G70R	Outputs	Relay outputs	NPN	8 (SPSTNO×8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08 *7	_			

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

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

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

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

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

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

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

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

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

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

Cables for I/O Relay Terminals

Туре	Name	I/O Classification	Appearance	Cable leng	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
Fujitsu connectors (24 pins)	(1:1)	16 I/O points		2,0	000	XW2Z-R200C
	XW2Z-R□C			3,0	000	XW2Z-R300C
			L — L — →	5,0	000	XW2Z-R500C
				(A) 1,000	(B) 750	XW2Z-RI100C-75
			A side B side	(A) 1,500	(B) 1,250	XW2Z-RI150C-125
		32 input points	Device end I/O Relay Terminal (A) →	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors		(A) 1	(A) 3,000	(B) 2,750	XW2Z-RI300C-275
Fujitsu connectors (40 pins)	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
rujusu connectors (40 pins)	XW2Z-RI□C-□			(A) 1,000	(B) 750	XW2Z-RO100C-75
	XW2Z-RO□C-□	32 output points	(120)	(A) 1,500	(B) 1,250	XW2Z-RO150C-125
			(B)	(A) 2,000	(B) 1,750	XW2Z-RO200C-175
			Straight length (without bends)	(A) 3,000	(B) 2,750	XW2Z-RO300C-275
				(A) 5,000	(B) 4,750	XW2Z-RO500C-475
	Cables with Connectors		A side B side	25	50	XW2Z-RI25C
MII (00 ')	(1:1)	10.1/0	Device end I/O Relay Terminal	50	00	XW2Z-RI50C
MIL connectors (20 pins)	XW2Z-RI□C	16 I/O points		25	50	XW2Z-RO25C
	XW2Z-RO□C		L	50	00	XW2Z-RO50C
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-RO75-50-D1
				(A) 1,000	(B) 750	XW2Z-RO100-75-D1
			A side B side	(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1
			Device end I/O Relay Terminal	(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
	Cables with Connectors		(A)	(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
MIL connectors (40 pine)	(1:2)	22.1/O mainta		(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
MIL connectors (40 pins)	XW2Z-RO□-□-D1,	32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
	XW2Z-RI□-□-D1		(120)	(A) 750	(B) 500	XW2Z-RI75-50-D1
			(B)	(A) 1,000	(B) 750	XW2Z-RI100-75-D1
			Straight length (without bends)	(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
				(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	ystem	CJ system	(CJ1, CJ2)	CP1H system	NSJ system *	
Model	CPU Rack	Expansion Rack	CPU Rack	Expansion Backplane	CP1H PLC	NSJ Controller	Expansion Backplane
CJ1W-ID201							
CJ1W-ID211			10 Units	10 Units (per Expansion Backplane)	Not supported	Not supported	10 Units
CJ1W-ID212							
CJ1W-ID231							
CJ1W-ID232	10 Units	10 Units					
CJ1W-ID233	10 Units	(per Expansion Rack)					(per Expansion Backplane)
CJ1W-ID261				. ,			. ,
CJ1W-ID262							
CJ1W-IA201							İ
CJ1W-IA111							

^{*} Product no longer available to order.

Specifications

CJ1W-ID201 DC Input Unit (12 to 24-VDC, 8 Points)

	bullet of the Cart
Name	8-point DC Input Unit with Terminal Block
Model	CJ1W-ID201
Rated Input Voltage	12 to 24 VDC
Rated Input Voltage Range	10.2 to 26.4 VDC
Input Impedance	2.4 kΩ
Input Current	10 mA typical (at 24 VDC)
ON Voltage/ON Current	8.8 VDC min./3 mA min.
OFF Voltage/OFF Current	3 VDC max./1 mA max.
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1
Number of Circuits	8 independent circuits
Number of Simultaneously ON Points	100% simultaneously ON
Insulation Resistance	$20~\text{M}\Omega$ min. between 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.
Internal Current Consumption	80 mA max.
Weight	110 g max.
Circuit Configuration	Signal name Jxx_Ch1_In00 COM0 Louis Input indicator Jxx_Ch1_In07 COM7 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 pin '2' Signal pin

^{*1.} The ON response time will be 20 µs maximum and OFF response time will be 400 µs maximum even if the response time are set to 0 ms due

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

^{*2.} 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-ID211 DC Input Unit (24 VDC, 16 Points)

	C input Unit (24 VDC, 16 Points)						
	16-point DC Input Unit with Terminal Block						
	CJ1W-ID211						
	24 VDC						
Range	20.4 to 26.4 VDC						
	3.3 kΩ						
	7 mA typical (at 24 VDC)						
	14.4 VDC min./3 mA min.						
Current	5 VDC max./1 mA max.						
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1						
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1						
	16 (16 points/common, 1 circuit)						
	100% simultaneously ON (at 24 VDC) (Refer to the following illustration.)						
Insulation Resistance	$20~\text{M}\Omega$ min. between 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.						
Internal Current Consumption	80 mA max.						
Weight	110 g max.						
Circuit Configuration	Signal name Jxx_Ch1_In00 Jxx_Ch1_In15 COM Input indicator Input indicator Input 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.						
External connection and terminal-device variable diagram	Signal name Connector Signal name Jxx_Ch1_In00 A0 B0 Jxx_Ch1_In01 O Jxx_Ch1_In02 A1 B1 Jxx_Ch1_In03 O Jxx_Ch1_In04 A2 B2 Jxx_Ch1_In05 O Jxx_Ch1_In08 A4 B4 Jxx_Ch1_In07 O Jxx_Ch1_In10 A5 B5 Jxx_Ch1_In11 O Jxx_Ch1_In11 A6 B6 Jxx_Ch1_In11 O Jxx_Ch1_In12 A6 B7 Jxx_Ch1_In15 O Polarity of the input power supply can be connected in either direction. Polarity of the input power supply can be connected in either direction.						

^{*1.} The ON response time will be 20 μs maximum and OFF response time will be 400 μs maximum even if the response time are set to 0 ms due to internal element delays.
*2. 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-ID212 DC Input Unit (24 VDC, 16 Points)

	C input Unit (24 VDC, 16 Points)
Name	16-point DC Input Unit with Terminal Block
Model	CJ1W-ID212
Rated Input Voltage	24 VDC
Rated Input Voltage Range	20.4 to 26.4 VDC
Input Impedance	3.3 kΩ
Input Current	7 mA typical (at 24 VDC)
ON Voltage/ON Current	14.4 VDC min./3 mA min.
OFF Voltage/OFF Current	5 VDC max./1 mA max.
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1
Number of Circuits	16 (16 points/common, 1 circuit)
Number of Simultaneously ON Points	100% simultaneously ON (at 24 VDC) (Refer to the following illustration.)
Insulation Resistance	20 MΩ min. between 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.
Internal Current Consumption	130 mA max.
Weight	110 g max.
Circuit Configuration	Signal name 3.3 kΩ 470 Ω Jxx_Ch1_In00 Jxx_Ch1_In15 COM Input indicator Input indicator Input 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.
External connection and terminal-device variable diagram	Signal name Connector Signal name Signal name

^{*1.} The ON response time will be 15 μs maximum and OFF response time will be 90 μs maximum even if the response time are set to 0 ms due

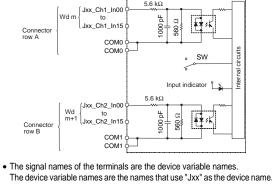
to internal element delays.

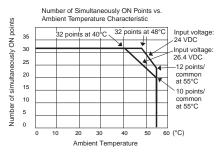
*2. Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

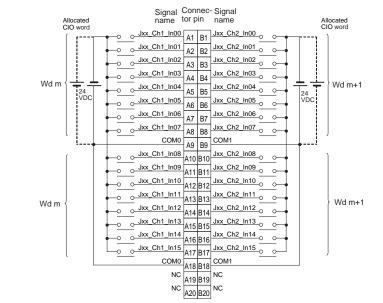
CJ1W-ID231 DC Input Unit (24 VDC, 32 Points)

Name	32-point DC Input Unit with Fujitsu Connector					
Model	CJ1W-ID231					
Rated Input Voltage	24 VDC					
Rated Input Voltage Range	20.4 to 26.4 VDC					
Input Impedance	$5.6~\mathrm{k}\Omega$					
Input Current	4.1 mA typical (at 24 VDC)					
ON Voltage/ON Current	19.0 VDC min./3 mA min.					
OFF Voltage/OFF Current	5 VDC max./1 mA max.					
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *					
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *					
Number of Circuits	32 (16 points/common, 2 circuits)					
Number of Simultaneously ON Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)					
Insulation Resistance	$20~\text{M}\Omega$ min. between 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.					
Internal Current Consumption	90 mA max.					
Weight	70 g max.					
Accessories	None					
	Allocated Signal CIO word name Number of Simultaneously ON Points vs. 5.6 kΩ Ambient Temperature Characteristic					

Circuit Configuration







- **External connection** and terminal-device variable diagram
- The input power polarity can be connected in either direction.
 Be sure to wire both pins A9 and A18 (COM0), and set the same polarity for both pins.
- Be sure to wire both pins B9 and B18 (COM1), and set the same polarity for both pins.
- The signal names of the terminals are the device variable names.
 The device variable names are the names that use "Jxx" as the device name.

Note: 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.

^{*} 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-ID232 DC Input Unit (24 VDC, 32 Points)

	C input Onit (24 VDC, 32 Points)	
Name	32-point DC Input Unit with MIL Connector	
Model	CJ1W-ID232	
Rated Input Voltage	24 VDC	
Rated Input Voltage Range	20.4 to 26.4 VDC	
Input Impedance	5.6 kΩ	
Input Current	4.1 mA typical (at 24 VDC)	
ON Voltage/ON Current	19.0 VDC min./3 mA min.	
OFF Voltage/OFF Current	5 VDC max./1 mA max.	
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *	
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *	
Number of Circuits	32 (16 points/common, 2 circuits)	
Number of Simultaneously ON Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)	
Insulation Resistance	20 MΩ min. between 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.	
Internal Current Consumption	90 mA max.	
Weight	70 g max.	
Accessories	None	
Circuit Configuration	Connector row A Connector row B Number of Simultaneously ON Points vs. Ambient Temperature Characteristic Input voltage: 24 VDC Input voltage: 24 VDC Input voltage: 24 VDC Input voltage: 24 VDC Input voltage: 26 VDC In	
External connection and terminal-device variable diagram	Allocated CIO word Signal Connec Signal name Cir pin name	
	Be sure to wire both pins 3 and 4 (COM1), and set the same polarity for both pins. 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.

Note: 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-ID233 DC Input Unit (24 VDC, 32 Points)

	ic input Unit (24 VDC, 32 Points)	
Name	32-point DC Input Unit with MIL Connector	
Model	CJ1W-ID233	
Rated Input Voltage	24 VDC	
Rated Input Voltage Range	20.4 to 26.4 VDC	
Input Impedance	5.6 kΩ	
Input Current	4.1 mA typical (at 24 VDC)	
ON Voltage/ON Current	19.0 VDC min./3 mA min.	
OFF Voltage/OFF Current	5 VDC max./1 mA max.	
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *	
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *	
Number of Circuits	32 (16 points/common, 2 circuits)	
Number of Simultaneously ON Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)	
Insulation Resistance	20 M Ω min. between 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.	
Internal Current Consumption	200 mA max.	
Weight	70 g max.	
Accessories	None	
Circuit Configuration	Number of Simultaneously ON Points vs. Ambient Temperature Characteristic Upux voltage: 24 VDC Input voltage: 24 VDC Input voltage: 24 VDC Input voltage: 24 VDC Input voltage: 26 VDC Input voltage:	
External connection and terminal-device variable diagram	Allocated CIO word Signal Connector pin Signal CiO word	

^{*} The ON response time will be 15 μs maximum and OFF response time will be 90 μs maximum even if the response times are set to 0 ms due to internal element delays.

Note: 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-ID261 DC Input Unit (24 VDC, 64 Points)

	- p		
Name	64-point DC Input Unit with Fujitsu Connector		
Model	CJ1W-ID261		
Rated Input Voltage	4 VDC		
Rated Input Voltage Range	20.4 to 26.4 VDC		
Input Impedance	5.6 kΩ		
Input Current	4.1 mA typical (at 24 VDC)		
ON Voltage/ON Current			
OFF Voltage/OFF Current			
ON Response Time OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) * 8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
Number of Circuits	64 (16 points/common, 4 circuits)		
Number of Simultaneously ON Points		lustrations.)	
Insulation Resistance	20 MΩ min. between 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 le	eakage current of 10 mA max.	
Internal Current			
Consumption	90 mA max.		
Weight	110 g max.		
Accessories	None		
Circuit Configuration	Allocated Signal CIO word name 5.6 kΩ Connector m Jxx_Ch1_In50 COM0 Connector row A Conn	Number of Simultaneously ON Points vs. Ambient Temperature Characteristic 64 points at 35°C 64 points at 47°C Input voltage: 20.4 VDC 12 points/common (total: 45 points) at 55°C 8 points/common at 55°C 8 points/common (total: 26 points max.) at 55°C Ambient Temperature	
External connection and terminal-device variable diagram	Allocated CIO word Signal name Connector pin Signal name Allocated CIO word		
	The input power polarity can be connected in either direction. Be sure to wire both pins A9 and A18 (COM0) of CN1, and set the same polarity for both pins. Be sure to wire both pins B9 and B18 (COM1) of CN1, and set the same polarity for both pins. Be sure to wire both pins B9 and B18 (COM1) of CN1, and set the same polarity for both pins. The signal names of the terminals are the device variable names.	power polarity can be connected in either direction. wire both pins A9 and A18 (COM2) of CN2, and set the rity for both pins. wire both pins B9 and B18 (COM3) of CN2, and set the rity for both pins. ames of the terminals are the device variable names. rariable names are the names that use "Jxx" as the device name.	

The ON response time will be 120 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.

Note: 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-ID262 DC Input Unit (24 VDC, 64 Points)

Mana	OA - sint DO looset Heit with MIL Occasion		
Name	64-point DC Input Unit with MIL Connector		
Model	CJ1W-ID262		
Rated Input Voltage	24 VDC		
Rated Input Voltage	20.4 to 26.4 VDC		
Range			
Input Impedance	5.6 kΩ		
Input Current	4.1 mA typical (at 24 VDC)		
ON Voltage/ON Current	19.0 VDC min./3 mA min.		
OFF Voltage/OFF Current	5 VDC max./1 mA max.		
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
Number of Circuits	64 (16 points/common, 4 circuits)		
Number of Simultaneously ON Points	50% (8 points/common) simultaneously ON (at 24 VDC) (Refer to the	,	
Insulation Resistance	$20~\text{M}\Omega$ min. between external terminals and the GR terminal (100 VI	DC)	
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1	I minute at a leakage current of 10 mA max.	
Internal Current	90 mA max.		
Consumption			
Weight	110 g max.		
Accessories	None		
Circuit Configuration	Allocated Signal CIO word name Wd m Jxx_Ch1_In00 Jxx_Ch1_In15 SW SW Switching circuit Switchi	Number of Simultaneously ON Points vs. Ambient Temperature Characteristic 80 70 64 points at 25°C 64 points at 35°C 64 points at 47°C Input voltage: 20.4 VDC 12 points/common (total: 45 points) 150°C 12 points/common (total: 45 points) 150°C 12 points/common (total: 45 points) 150°C 150	
External connection and terminal-device variable diagram	Allocated CIO word aname tor pin name CIO word cIO word name tor pin name CIO word nam	Allocated CIO word Signal Connector pin Signal Allocated CIO word 24 VDC NC 1 2 NC COM3 3 4 Jox.Ch4_ino17 O Jox.Ch4_ino13 O Jox.Ch4_ino13 O Jox.Ch4_ino13 O Jox.Ch4_ino13 O Jox.Ch4_ino1 O Jox.Ch4_ino1 I I I I I I I I I I I I I I I I I I I	
. = 0.11	The device variable names are the names that use "Jxx" as the device name.	The device variable names are the names that use "Jxx" as the device name.	
* The ON response time	e will be 120 μ s maximum and OFF response time will be 400	μs maximum even if the response times are set to 0 ms due	

^{*} 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.

Note: 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-IA201 AC Input Unit (200 VAC, 8 Points)

Name	8-point AC Input Unit with Terminal Block	
Model	CJ1W-IA201	
Rated Input Voltage	200 to 240 VAC 50/60 Hz	
Rated Input Voltage Range	170 to 264 VAC	
Input Impedance	21 kΩ (50 Hz), 18 kΩ (60 Hz)	
Input Current	9 mA typical (at 200 VAC, 50 Hz), 11 mA typical (at 200 VAC, 60 Hz)	
ON Voltage/ON Current	120 VAC min./4 mA min.	
OFF Voltage/OFF Current	40 VAC max./2 mA max.	
ON Response Time	18.0 ms max. (default setting: 8 ms) *1	
OFF Response Time	48.0 ms max. (default setting: 8 ms) *1	
Number of Circuits	8 (8 points/common, 1 circuit)	
Number of Simultaneously ON Points	100% (8 points/common) simultaneously ON	
Insulation Resistance	20 MΩ min. 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	80 mA max.	
Weight	130 g max.	
Accessories	None	
Circuit Configuration	Signal name Input indicator	
External connection and terminal-device variable diagram	Connector pin 2 Signal name NC A0 B0 Jxx_Ch1_In00	
	NC A8 COM	

^{*1.} Can be set to 0 ms, 0.5 ms, 1 ms, 2 ms, 4 ms, 8 ms, 16 ms, or 32ms in the settings. When the response times have been set to 0 ms, the ON response time will be 10 ms maximum and the OFF response time will be 55 ms maximum due to internal element delays.

B8

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

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

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

^{*2.} 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-IA111 AC Input Unit (100 VAC, 16 points)

Name	16-point AC Input Unit with Terminal Block		
Model	CJ1W-IA111		
Rated input voltage	100 to 120 VAC 50/60 Hz *2		
Rated Input Voltage Range	85 to 132 VAC		
Input Impedance	14.5 kΩ (50 Hz), 12 kΩ (60 Hz)		
Input Current	7 mA typical (at 100 VAC, 50 Hz), 8 mA typical (at 100 VAC, 60 Hz)		
ON Voltage/ON Current	70 VAC min./4 mA min		
OFF Voltage/OFF Current	20 VAC max./2 mA max		
ON Response Time	18 ms max. (default setting: 8 ms) *1		
OFF Response Time	48 ms max. (default setting: 8 ms) *1		
Number of Circuits	16 (16 points/common, 1 circuit)		
Number of Inputs ON Simultaneously	100% simultaneously ON (16 points/common)		
Insulation Resistance	20 M Ω min. 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	90 mA max.		
Weight	130 g max.		
Accessories	None		
Circuit Layout	Signal name Jxx_Ch1_In00 Jxx_Ch1_In15 O 0.22 μF 270 Ω 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 Signal name		

- 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.
- *1. Can be set to 0 ms, 0.5 ms, 1 ms, 2 ms, 4 ms, 8 ms, 16 ms, or 32ms in the settings. When the response times have been set to 0 ms, the ON response time will be 10 ms maximum and the OFF response time will be 55 ms maximum due to internal element delays.

Α8

COM

В6

В7

В8

Jxx_Ch1_In15

СОМ

- *2. Use an input voltage of 90 VAC or higher when connecting 2-wire sensors.
- *3. 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.

Bit Allocations for Input Unit

8-point Input Unit

Allocated CIO word		Signal name (C I/N I)
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
	:	:
	06	IN6/Jxx_Ch1_In06
Wd m	07	IN7/Jxx_Ch1_In07
(Input)	08	_
	09	_
	:	:
	14	_
	15	_

16-point Input Unit

Allocated CIO word		Signal name (C I/N I)
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(mpat)	14	IN14/Jxx_Ch1_ln14
	15	IN15/Jxx_Ch1_In15

32-point Input Unit

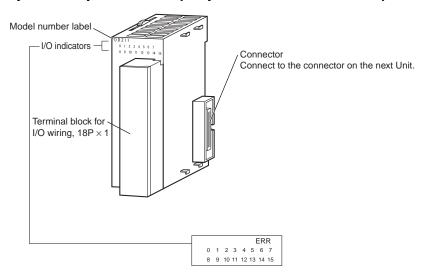
Allocated CIO word		Signal name (C I/N I)
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(p.u.)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15
Wd m+1 (Input)	00	IN0/Jxx_Ch2_In00
	01	IN1/Jxx_Ch2_In01
	:	:
(par)	14	IN14/Jxx_Ch2_In14
	15	IN15/Jxx_Ch2_In15

64-point Input Unit

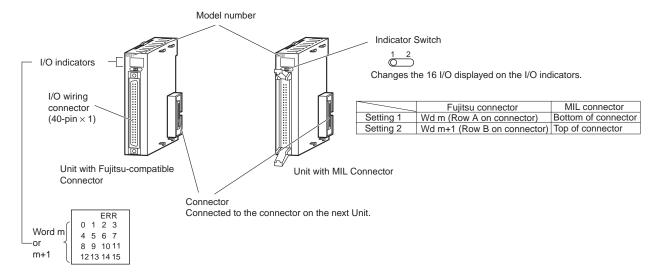
Allocated CIO word		0:
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(p.s.t)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15
	00	IN0/Jxx_Ch2_In00
	01	IN1/Jxx_Ch2_In01
Wd m+1 (Input)	:	:
(14	IN14/Jxx_Ch2_In14
	15	IN15/Jxx_Ch2_In15
-	00	IN0/Jxx_Ch3_In00
14/1	01	IN1/Jxx_Ch3_In01
Wd m+2 (Input)	:	:
(mpat)	14	IN14/Jxx_Ch3_In14
	15	IN15/Jxx_Ch3_In15
	00	IN0/Jxx_Ch4_In00
	01	IN1/Jxx_Ch4_In01
Wd m+3 (Input)	:	:
(iiiput)	14	IN14/Jxx_Ch4_In14
	15	IN15/Jxx_Ch4_In15

External Interface

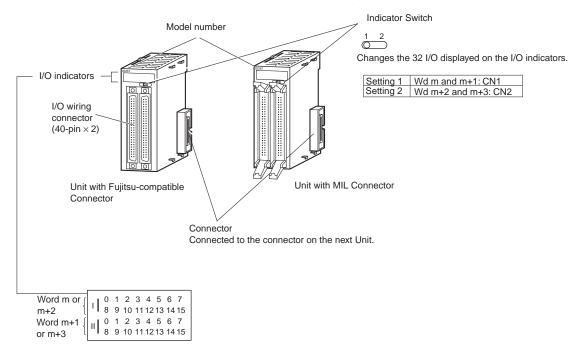
8-point/16-point Units (18-point Terminal Blocks)



32-point Units (Models with 40-point Fujitsu Connector or MIL Connector)



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



Wiring Basic I/O Units with Terminal Blocks

Electric Wires

The following wire gauges are recommended.

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

Crimp terminals

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

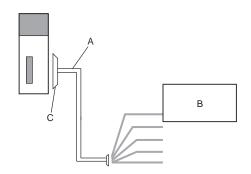


I/O Unit Wiring Methods

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

1. User-provided Cable

An I/O Unit can be directly connected to an external device by using a connector.

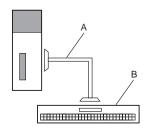


Α	User-provided cable	
В	External device	
С	Connector	

2. Connector-Terminal Block Conversion Unit

Use a Connecting Cable to connect to a Connector-Terminal Block Conversion Unit.

Converting the I/O Unit connector to a screw terminal block or push-in terminal block makes it easy to connect external devices.

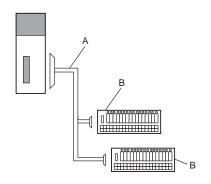


Α	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2□

3. I/O Relay Terminal

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

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



Α	Connecting Cable for I/O Relay Terminals XW2Z-R
В	I/O Relay Terminals G70V, G7TC Relay Terminals G70D, G70R I/O Terminal Socket G70A Or, conversion to relay outputs and AC inputs.

1. Using User-made Cables with Connector

Available Connectors

Use the following connectors when assembling a connector and cable.

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

Model	Specifications	Pins
CJ1W-ID231	Input Unit, 24 VDC, 32 inputs	40
CJ1W-ID261	Input Unit, 24 VDC, 64 inputs	40

Applicable Cable-side Connectors

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

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

Model	Specifications	Pins
CJ1W-ID232 CJ1W-ID233	Input Unit, 24 VDC, 32 inputs	40
CJ1W-ID262	Input Unit, 24 VDC, 64 inputs	

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)

Tools for Grimped Gormeotors (GimeOrly)				
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

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units

Pattern	Configuration				
А	Connecting Cable Connector-Terminal Block Conversion Unit				
В	Connecting Cable Connector-Terminal Block Conversion Unit				

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

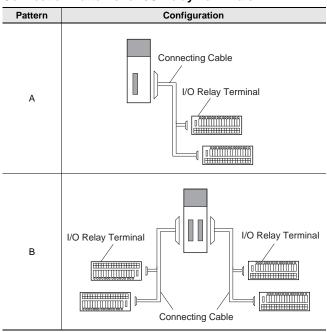
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals
		1 Fujitsu connector	NPN/PNP	A	XW2Z-□□□B	XW2K-40G-O32A	Push-In Plus	No
C 14W 1D224						XW2K-40G-O32A-IN	Push-In Plus	Yes
CJ1W-ID231	32 inputs					XW2R-J34GD-C1	Phillips screw	No
						XW2R-E34GD-C1	Slotted screw (rise up)	No
			NPN/PNP	A		XW2K-40G-O32C	Push-In Plus	No
CJ1W-ID232	22 innute	1 MIL			VW27 □□□K	XW2K-40G-O32C-IN	Push-In Plus	Yes
CJ I W-ID232	32 inputs	connector			XW2Z-□□□K	XW2R-J34GD-C2	Phillips screw	No
						XW2R-E34GD-C2	Slotted screw (rise up)	No
	32 inputs	1 MIL connector	NPN/PNP	A	XW2Z-□□□K	XW2K-40G-O32C	Push-In Plus	No
CJ1W-ID233						XW2K-40G-O32C-IN	Push-In Plus	Yes
C31W-ID233						XW2R-J34GD-C2	Phillips screw	No
						XW2R-E34GD-C2	Slotted screw (rise up)	No
	64 inputs	2 Fujitsu connectors	NPN/PNP	В	XW2Z-□□□B (2 pcs)	XW2K-40G-O32A (2 Units)	Push-In Plus	No
CJ1W-ID261						XW2K-40G-O32A-IN (2 Units)	Push-In Plus	Yes
C31W-ID261						XW2R-J34GD-C1 (2 Units)	Phillips screw	No
						XW2R-E34GD-C1 (2 Units)	Slotted screw (rise up)	No
CJ1W-ID262		outs 2 MIL connectors	NPN/PNP			XW2K-40G-O32C (2 Units)	Push-In Plus	No
	64 inputs			В	(2 pcs)	XW2K-40G-O32C-IN (2 Units)	Push-In Plus	Yes
	64 inputs					XW2R-J34GD-C2 (2 Units)	Phillips screw	No
						XW2R-E34GD-C2 (2 Units)	Slotted screw (rise up)	No

* The box \square is replaced by the cable length.

Note: For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R series catalog (Cat. No. G077).

3. Connecting I/O Relay Terminals

Connection Patterns for I/O Relay Terminals



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

I/O Units				0	Connecting Cables		I/O Relay Terminals			
Model	I/O capacity	External connectors	Polarity	Connection pattern	Model *1	Quantity required	Model	I/O points	Quantity required	Wiring method
CJ1W-ID231 32 i		1 Fujitsu connector (40 p)	Sinking/ Sourcing (NPN/PNP)	А	XW2Z-RI□C-□	1	G70V-SID16P(-1)(-C16) *2	16	2	Push-in spring
	32 inputs						G7TC-ID/IA16	16		Screw terminal
							G70A-ZIM16-5 *3	16		
CJ1W-ID232	32 inputs	1 MIL connector (40 p)	Sinking/ Sourcing (NPN/PNP)	A	XW2Z-RO□-□-D1	1	G70V-SID16P(-1)(-C16) *2	16	2	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
							G70A-ZIM16-5	16		
CJ1W-ID233	32 inputs	1 MIL connector (40 p)	Sinking/ Sourcing (NPN/PNP)	А	XW2Z-RO□-□-D1	1	G70V-SID16P(-1)(-C16) *2	16	2	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
							G70A-ZIM16-5*3	16		
CJ1W-ID261	64 inputs	2 Fujitsu connectors (40 p)	Sinking/ Sourcing (NPN/PNP)	В	XW2Z-RI□C-□	2	G70V-SID16P(-1)(-C16) *2	16	4	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
							G70A-ZIM16-5 *3	16		
CJ1W-ID262	64 inputs	2 MIL connectors (40 p)	Sinking/ Sourcing (NPN/PNP)	В	XW2Z-RO□-□-D1	2	G70V-SID16P(-1)(-C16) *2	16	4	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
							G70A-ZIM16-5 *3	16		

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

^{*2.} Either NPN inputs or PNP inputs can be used.

^{*3.} G70A-ZIM16-5 is a I/O terminal socket products. Relay is not provided with the socket. Be sure to order a relay, timer separetely. (with G2R Relays mounted: SPDT × 16)

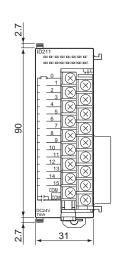
Dimensions (Unit: mm)

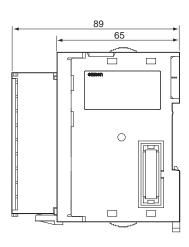
8-point/16-point Units (18-point Terminal Blocks)

CJ1W-ID201 CJ1W-ID211 CJ1W-ID212

CJ1W-IA201 CJ1W-IA111



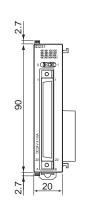


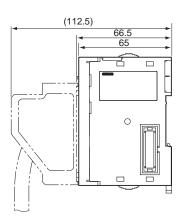


32-point Units (Input Units)

With Fujitsu-compatible Connector (40-pin \times 1) CJ1W-ID231

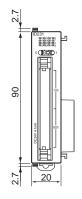


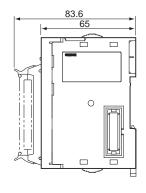




With MIL Connector (40-pin \times 1) CJ1W-ID232 CJ1W-ID233



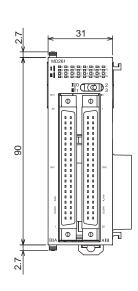


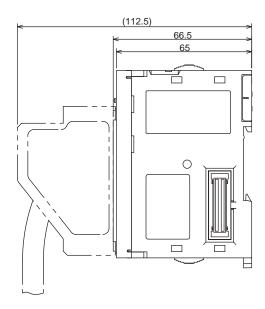


64-point Units (Input Units)

With Fujitsu-compatible Connector (40-pin \times 2) CJ1W-ID261

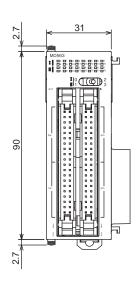


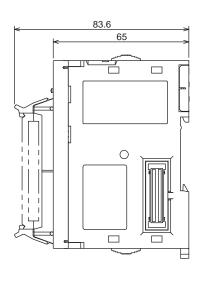




With MIL Connector (40-pin \times 2) CJ1W-ID262







Related Manuals

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

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