# CJ-series Input Units CJ1W-ID/IA

#### CSM\_CJ1W-ID\_IA\_DS\_E\_11\_6

# 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-ID212



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.

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# **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**

	Product		Sp	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		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	
	ARIU	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*.

# CJ1W-ID/IA

#### **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 Connect FCN-360C040-J2 Connect Cover		C500-CE404	
40-pin Connectors	Crimped	FCN-363J040 Housing FCN-363J-AU Contacto FCN-360C040-J2 Connect Cover		C500-CE405	
	Pressure welded	FCN-367J040-AU/F		C500-CE403	
	Soldered	FCN-361J024-AU Connect FCN-360C024-J2 Connect Cover		C500-CE241	
24-pin Connectors	Crimped	FCN-363J024 Socket FCN-363J-AU Contacto FCN-360C024-J2 Connect Cover		C500-CE242	
	Pressure welded	FCN-367J024-AU/F		C500-CE243	1

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

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

\* Crimp Contacts are also required. Refer to page 20 for details.

#### **Applicable Connector-Terminal Block Conversion Units**

		Numbor	Wiring	Terminal		Size		Mou	nting	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-ID231 CJ1W-ID261	XW2R-J34GD-C1	
				МЗ	50	48.05	130.7						CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-J34GD-C2	
			Slotted screw (rise up)	МЗ									CJ1W-ID231 CJ1W-ID261	XW2R-E34GD-C1	_
PLCs	XW2R	34		(European type)	50	44.81	98.5	Yes	No	No	No	110	CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-E34GD-C2	_
			Push-in spring										CJ1W-ID231 CJ1W-ID261	XW2R-P34GD-C1	
			4	Clamp	50	44.81	98.5						CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-P34GD-C2	

Note: For the combination of Input 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-DDPF		0.5	XW2Z-050PF
		1	XW2Z-100PF
	One 40 pin Evilian Connector to One 40 pin Mill Connector	1.5	XW2Z-150PF
	One 40-pin Fujitsu Connector to One 40-pin MIL Connector	2	XW2Z-200PF
		3	XW2Z-300PF
		5	XW2Z-500PF
W2Z-DDPM		0.5	XW2Z-050PM
		1	XW2Z-100PM
	One 40 pin MIL Connector to One 40 pin MIL Connector	1.5	XW2Z-150PM
	One 40-pin MIL Connector to One 40-pin MIL Connector	2	XW2Z-200PM
		3	XW2Z-300PM
		5	XW2Z-500PM

				S	pecifications	5		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 mA							G70V-SID16P-1 *4	
Push-In	G70V	inputs	inputs	NPN	(SPSTNO × 16)	50 IIIA							G70V-SID16P-C16 *5	]
Plus	ALL DOT DOT DOT DOT DO			PNP			24 VDC	143	90	56	Yes	Yes	G70V-SID16P-1-C16 *5	UC, CE (TÜV
terminal block				NPN	-		2						G70V-SOC16P *4	certified)
biook		Outputs	Relay	PNP	16	6 A/point, 10 A/							G70V-SOC16P-1 *4	_
		ouputo	outputs	NPN	(SPDT × 16)	common							G70V-SOC16P-C4 *6	-
				PNP									G70V-SOC16P-1-C4 *6	
			AC				100/(110) VAC	-					G7TC-IA16 AC100/110	_
			inputs		16		200/(220) VAC	-					G7TC-IA16 AC200/220	
		Inputs	DC	NPN	(SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12	-
	G7TC		inputs				24 VDC	_					G7TC-ID16 DC24	-
Oton doud	tandard Out						100/110 VDC		05	<u></u>	¥	NIE	G7TC-ID16 DC100/110	
Standard					8 (SPSTNO × 8)		12 VDC 24 VDC	102	85	68	Yes	No	G7TC-OC08 DC12 G7TC-OC08 DC24	U, C
				NPN	, ,	-	24 VDC 12 VDC		-				G7TC-OC08 DC24	-
		Outputs	Relay outputs		16 (SPSTNO × 16)	5A	12 VDC 24 VDC	-					G7TC-OC16 DC12	-
			ouputo		, ,	-	12 VDC	182					G7TC-OC16-1 DC12	-
				PNP	16 (SPSTNO × 16)		12 VDC 24 VDC	-					G7TC-OC16-1 DC12	-
					(,		110 VDC						0710-0010-1 2024	
	G70A *1 (Socket only)	Inputs	Relay	NPN/		100 mA	max., 240						G70A-ZOC16-5	
High-	(econor enily)	inputs	inputs	PNP	16	100 111	VAC max. *2						070A-20010-3	U, C, CE
capacity					(SPDT × 16 possible with	10 A (Ter-	2	234	75	64	Yes	No		(VDE
socket	1000		Relay	NPN	G2R Relays)	minal							G70A-ZOC16-3	certified)
	1	Outputs	outputs	PNP		block al-	24 VDC						G70A-ZOC16-4	-
				FINF		lowable							G70A-20C16-4	
	Vertical type G70D-V		Relay			5 A							G70D-VSOC16	
	1. A		outputs	-	10	or 3 A *3	-							U, C, CE
	Contraction of the local division of the loc		MOSFET	NPN	16 (SPSTNO × 16)			135	46	81	Yes	Yes		(VDE
	And and and the owner of the owner owner owner owner owner		relay outputs			0.3 A							G70D-VFOM16	certified)
	- may		ouipuis											
Space-	Flat type G70D				8 (SPSTNO × 8)	5 A		68	93	44			G70D-SOC08	
saving	GIOD	Outputs	Relay	NPN	(SPSTNO × 8) 16		24 VDC				-			-
	- Middler		outputs		(SPSTNO × 16)	3 A							G70D-SOC16	
	and a			PNP	16 (SPSTNO × 16)	3 A	-	156	51	39	Yes	Yes	G70D-SOC16-1	_
	-		MOSFET	NPN	16		_	150	51	39			G70D-FOM16	
	0		relay outputs	PNP	(SPSTNO × 16)	0.3 A							G70D-FOM16-1	-
	C70P		ouipuio										2.02.00.00.00	
High- capacity, space-	G70R	Outputs	Relay outputs	NPN	8 (SPSTNO × 8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08 *7	-

#### Applicable I/O Relay Terminals

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

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

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

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

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

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

\*7. Product no longer available to order.

saving

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		2,000		XW2Z-R200C
	XW2Z-R□C			3,0	000	XW2Z-R300C
			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
Fujitsu connectors (40 pins)		32 input points	Device end I/O Relay Terminal	(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
	XW2Z-RI□C-□			(A) 1,000	(B) 750	XW2Z-RO100C-75
	XW2Z-RO□C-□		(120)	(A) 1,500	(B) 1,250	XW2Z-RO150C-125
		32 output points	(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	2	50	XW2Z-RI25C
<b>///</b>	(1:1) XW2Z-RI□C		Device end I/O Relay Terminal	50	00	XW2Z-RI50C
MIL connectors (20 pins)		16 I/O points		2	50	XW2Z-RO25C
	XW2Z-RO□C			50	00	XW2Z-RO50C
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-R075-50-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
All connectors (40 pipe)	(1:2)	22 1/O pointo		(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
IIL connectors (40 pins)	XW2Z-RO□-□-D1,	32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
	XW2Z-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 s	ystem
Model	CPU Rack	Expansion Rack	CPU Rack	Expansion Backplane	CP1H PLC	NSJ Controller	Expansion Backplane
CJ1W-ID201							
CJ1W-ID211		10 Units (per Expansion Rack)	10 Units	10 Units (per Expansion Backplane)	Not supported	Not supported	10 Units (per Expansion Backplane)
CJ1W-ID212							
CJ1W-ID231							
CJ1W-ID232	40 11-11-						
CJ1W-ID233	10 Units						
CJ1W-ID261							
CJ1W-ID262	1						
CJ1W-IA201							
CJ1W-IA111							

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# **Specifications**

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

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 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       2.4 kΩ         Jxx_Ch1_In00
External connection and terminal-device variable diagram	<ul> <li>Polarity of the input power supply can be connected in either direction.</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> <li>me 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</li> </ul>

\*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.

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)

Name	16-point DC Input Unit with Terminal Block								
Model	CJ1W-ID211								
Rated Input Voltage	24 VDC								
Rated Input Voltage Range	20.4 to 26.4 VDC								
nput Impedance	3.3 kΩ								
nput Current	mA typical (at 24 VDC)								
N Voltage/ON Current	14.4 VDC min./3 mA min.								
DFF Voltage/OFF Current	5 VDC max./1 mA max.								
ON Response Time	.0 ms max. Can be set to between 0 and 32 ms in the Setup.) *1								
OFF Response Time	3.0 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	00% simultaneously ON (at 24 VDC) Refer to the following illustration.)								
nsulation Resistance	20 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.								
nternal Current Consumption	0 mA max.								
Veight	110 g max.								
Circuit Configuration	<ul> <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	Signal <u>pin +2</u> Signal <u>name</u> Signal <u>pin +2</u> Signal <u>name</u> Image: Signal <u>pin +2</u> Signal <u>name</u> Image: Signal <u>name</u> Signal <u>name</u> Image: Signal <u>name</u> Signal name       Image: Signal name         Signal name       Image: Signal name								

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)

D212 26.4 VDC pical (at 24 VDC) C min./3 mA min. max./1 mA max. max. rest to between 0 and 32 ms in the Setup.) *1 max. rest to between 0 and 32 ms in the Setup.) *1 max. rest to between 0 and 32 ms in the Setup.) *1 pical (at 24 VDC) to between 0 and 32 ms in the Setup.) *1 pical (at 24 VDC) to between 0 and 32 ms in the Setup.) *1 pical (at 24 VDC) to the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max. pical (at 24 VDC) at 470 Ω at 470
26.4 VDC pical (at 24 VDC) C min./3 mA min. nax./1 mA max. max. set to between 0 and 32 ms in the Setup.) *1 soints/common, 1 circuit) imultaneously ON (at 24 VDC) to the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max. max. max.
pical (at 24 VDC) CC min./3 mA min. max./1 mA max. max. set to between 0 and 32 ms in the Setup.) *1 max. set to between 0 and 32 ms in the Setup.) *1 moints/common, 1 circuit) imultaneously ON (at 24 VDC) to the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max. max. max.
C min./3 mA min.         max./1 mA max.         max.         is set to between 0 and 32 ms in the Setup.) *1         max.         is set to between 0 and 32 ms in the Setup.) *1         points/common, 1 circuit)         imultaneously ON (at 24 VDC)         o the following illustration.)         min. between external terminals and the GR terminal (100 VDC)         AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.         max.         max.         max.         signal
C min./3 mA min.         max./1 mA max.         max.         is set to between 0 and 32 ms in the Setup.) *1         max.         is set to between 0 and 32 ms in the Setup.) *1         points/common, 1 circuit)         imultaneously ON (at 24 VDC)         o the following illustration.)         min. between external terminals and the GR terminal (100 VDC)         AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
max./1 mA max. max. e set to between 0 and 32 ms in the Setup.) *1 max. e set to between 0 and 32 ms in the Setup.) *1 points/common, 1 circuit) imultaneously ON (at 24 VDC) o the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max. max. max.
max. e set to between 0 and 32 ms in the Setup.) *1 max. e set to between 0 and 32 ms in the Setup.) *1 points/common, 1 circuit) imultaneously ON (at 24 VDC) o the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max. max. isignal
es set to between 0 and 32 ms in the Setup.) *1 max. es set to between 0 and 32 ms in the Setup.) *1 boints/common, 1 circuit) imultaneously ON (at 24 VDC) o the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max. signal
set to between 0 and 32 ms in the Setup.) *1 points/common, 1 circuit) points/common, 1 circuit) points/common, 1 circuit) points/common, 1 circuit points/common, 1 circui
imultaneously ON (at 24 VDC) o the following illustration.) min. between external terminals and the GR terminal (100 VDC) AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. max.
be the following illustration.)  min. between external terminals and the GR terminal (100 VDC)  AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.  max.  Nax.  Signal  Temperature characteristics
AC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. max. signal
max. iax. Signal
max. iax. Signal
Signal
Signal for simultaneously ON points at 45°C.
The first of the terminals are the device variable names. Evice variable names are the names that use "Jxx" as the device name.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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							
Vodel	CJ1W-ID231							
Rated Input Voltage	24 VDC							
Rated Input Voltage Range	20.4 to 26.4 VDC							
nput Impedance	5.6 kΩ							
nput Current	4.1 mA typical (at 24 VDC)							
ON Voltage/ON Current	19.0 VDC min./3 mA min.							
OFF Voltage/OFF Current	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 DN Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)							
nsulation Resistance	20 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.							
nternal Current Consumption	0 mA max.							
Weight	70 g max.							
Accessories	None							
Circuit Configuration	Connector row A Connector Connector Wd m Connector wd d Connector wd d Connector Connector wd d Connector Co							
External connection and terminal-device variable diagram	Allocated Cl0 word       Signal Connec- Signal name       Allocated Cl0 word       Allocated Cl0 word         Wd m       Image: Connect Signal name       Jusc Ch2_In00_o       Image: Ch2_In00_o       Image: Ch2_In00_o         Wd m       Image: Ch1_In01_A       Allocated Cl0 word       Jusc Ch2_In00_o       Image: Ch2_In00_o       Image							

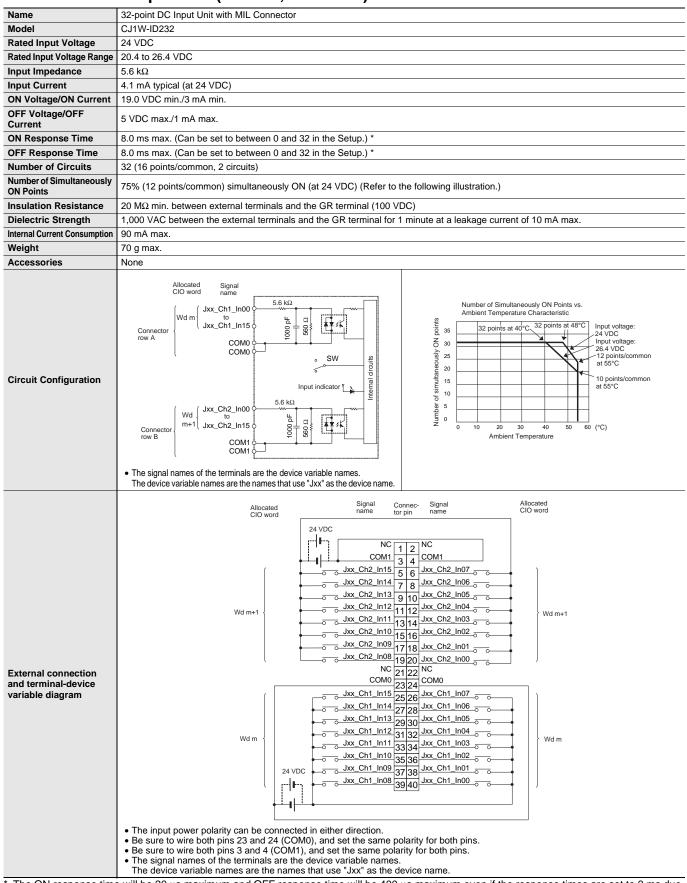
μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.

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-ID232 DC Input Unit (24 VDC, 32 Points)



\* 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.

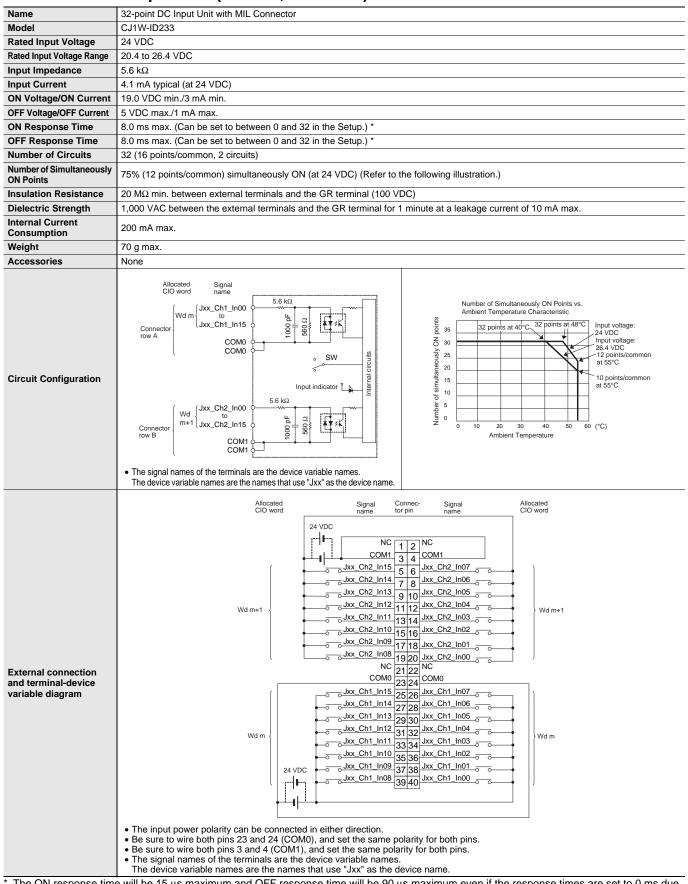
Note: Observe the following restrictions when connecting to a 2-wire sensor.

• 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)



\* 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)

Name	64-point DC Input Unit with Fujitsu Connector		
Model	CJ1W-ID261		
Rated Input Voltage			
Rated Input Voltage Range	20.4 to 26.4 VDC		
nput Impedance	5.6 kΩ 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)		
Iumber of Simultaneously DN Points	50% (16 points/common) simultaneously ON (at 24 VDC) (Refer to the	he following illustrations.)	
nsulation Resistance	$20\ \text{M}\Omega$ min. between external terminals and the GR terminal (100 VE	DC)	
ielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1	minute at a leakage current of 10 mA max.	
nternal Current Consumption	90 mA max.		
Veight	110 g max.		
ccessories	None		
Circuit Configuration	$CN1 \begin{cases} Connector \\ row A \\ CN1 \\ Connector \\ row B \\ CN2 \\ $	study to the second se	
	The device variable names are the names that use "Jxx" as the device name. CN1	CN2	
External connection and terminal-device variable diagram	Allocated CIO word NC RC HIPAT9 NC RC HIPAT9 NC HIBATA NC HIBATA NC HIBATA HAT HAT HAT HAT HAT HAT HAT HAT HAT	Allocated CIO word Allocated CIO word Allocated	

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)

Name Model	64-point DC Input Unit with MIL Connector CJ1W-ID262		
Rated Input Voltage	24 VDC		
Rated Input Voltage	20.4 to 26.4 VDC		
lange nput Impedance	5.6 kΩ		
put Current	4.1 mA typical (at 24 VDC)		
N Voltage/ON Current	19.0 VDC min./3 mA min.		
FF Voltage/OFF Current	5 VDC max./1 mA max.		
N Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
FF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *		
lumber of Circuits	64 (16 points/common, 4 circuits)		
lumber of Simultaneously DN Points	50% (8 points/common) simultaneously ON (at 24 VDC) (Refer to th	e following illustrations.)	
sulation Resistance	20 M $\Omega$ min. between external terminals and the GR terminal (100 V	DC)	
ielectric Strength	1,000 VAC between the external terminals and the GR terminal for 7	I minute at a leakage current of 10 mA max.	
nternal Current Consumption	90 mA max.		
/eight	110 g max.		
ccessories	None		
Circuit Configuration	$CN1 \begin{cases} Wd m \begin{cases} Jxx_Ch1_{100} & 5.6 k\Omega \\ Jxx_Ch1_{105} & 0 & 0 \\ Jxx_Ch1_{105} & 0 & 0 \\ COM0 & 0 & 0 \\ COM0 & 0 & 0 \\ Wd m+1 \end{cases} \begin{cases} yx_Ch2_{105} & yx_{100} \\ Jxx_Ch2_{1015} & 0 \\ Jxx_Ch2_{1015} & 0 \\ COM1 & 0 \\ Jxx_Ch2_{1015} & 0 \\ COM1 & 0 \\ Jxx_{105} & 0 \\ COM2 & 0 \\ COM2 & 0 \\ Jxx_{105} & 0 \\ COM2 & 0 \\ COM2 & 0 \\ Jxx_{105} & 0 \\ COM2 & 0 \\ COM2 & 0 \\ Jxx_{105} & 0 \\ COM2 & 0 \\ COM3 & 0 \\ COM2 & 0 \\ C$	Number of Simultaneously ON Points vs. Ambient Temperature Characteristic 64 points at 25°C 64 points at 35°C 64 Input voltage: 12 points/common (total: 26 points max.) Ambient Temperature	
	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. CN1	CN2	
External connection and terminal-device variable diagram	Allocated CIO word name tor pin - Signal Allocated CIO word 0	CIO word name tor pin name CIO word 24 VDC COM3 3 4 COM3 0 COM3 0 COM2 0 COM	
	<ul> <li>The input power polarity can be connected in either direction.</li> <li>Be sure to wire both pins 23 and 24 (COM1) of CN1, and set the same polarity for both pins.</li> <li>Be sure to wire both pins 3 and 4 (COM1) of CN1, and set the same polarity for both pins.</li> </ul>	<ul> <li>The input power polarity can be connected in either direction.</li> <li>Be sure to wire both pins 23 and 24 (COM2) of CN2, and set the same polarity for both pins.</li> <li>Be sure to wire both pins 3 and 4 (COM3) of CN2, and set the same polarity for both pins.</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 names.</li> </ul>	

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 M $\Omega$ 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	<ul> <li>Signal name</li> <li>Jxx_Ch1_In00</li> <li>Jxx_Ch1_In07</li> <li>0.15 µF</li> <li>220 Ω</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	• 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		

\*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.
\*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-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)		
nput 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 $\Omega$ 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	<ul> <li>name</li> <li>Input indicator</li> <li>Jxx_Ch1_In00</li> <li>470 Ω 1 MΩ</li> <li>Jxx_Ch1_In15</li> <li>0.22 μF 270 Ω</li> <li>COM</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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

\*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.

\*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 (CJ/NJ)
CIO	Bit	Signai 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 (CJ/NJ)
CIO	CIO Bit	
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(input)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15

#### 64-point Input Unit

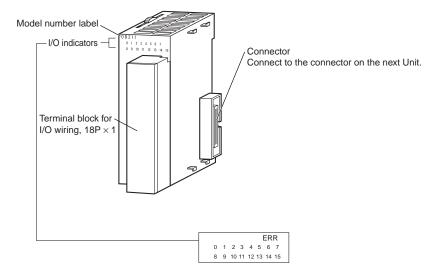
Allocated	Allocated CIO word	
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(input)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15
	00	IN0/Jxx_Ch2_In00
	01	IN1/Jxx_Ch2_In01
Wd m+1 (Input)	:	:
(input)	14	IN14/Jxx_Ch2_In14
	15	IN15/Jxx_Ch2_In15
	00	IN0/Jxx_Ch3_In00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

### 32-point Input Unit

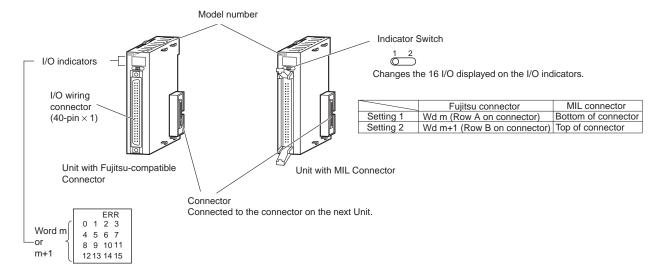
Allocated CIO word		Signal name (CJ/NJ)	
CIO Bit			
	00	IN0/Jxx_Ch1_In00	
	01	IN1/Jxx_Ch1_In01	
Wd m (Input)	:	:	
(input)	14	IN14/Jxx_Ch1_In14	
	15	IN15/Jxx_Ch1_In15	
	00	IN0/Jxx_Ch2_In00	
	01	IN1/Jxx_Ch2_In01	
Wd m+1 (Input)	:	:	
(	14	IN14/Jxx_Ch2_In14	
	15	IN15/Jxx_Ch2_In15	

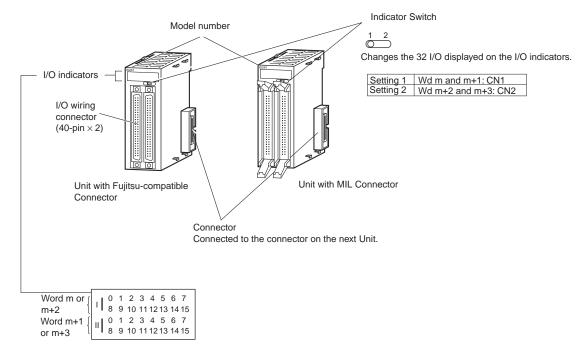
# **External Interface**

# 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 <sup>2</sup> )

#### **Crimp terminals**

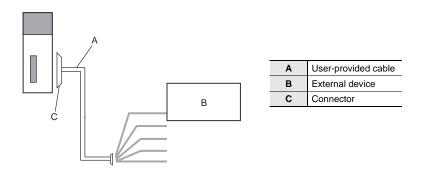
Use crimp terminals (M3) having the dimensions shown below.



### I/O Unit Wiring Methods

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

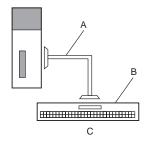
- 1. User-provided Cable
- An I/O Unit can be directly connected to an external device by using a connector.



2. Connector-Terminal Block Conversion Unit

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

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

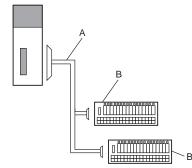


Α	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
в	Connector-Terminal Block Conversion Unit XW2R
С	Conversion to a screw terminal block

#### 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.



A	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.

\*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.

### Wire Size

We recommend using cable with wire gauges of AWG 28 to 24 (0.08 to 0.2 mm<sup>2</sup>). 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)** 

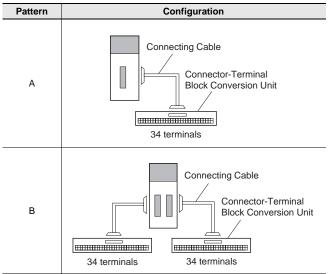
Product Name	Model
Pressure-welding Tool	XY2B-0002
Attachment	XY2B-1007

#### **Tools for Crimped Connectors (OMRON)**

Product Name	Model			
Manual Crimping Tool	XY2B-7007			

# 2. Connecting Connector-Terminal Block Conversion Units

#### **Connection Patterns for Connector-Terminal Block Conversion Units**



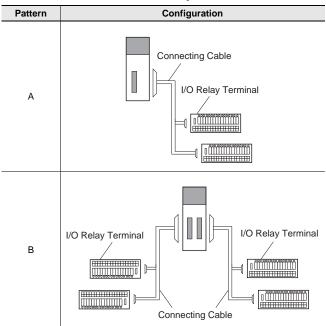
#### Combination of I/O Units with Connector-Terminal Block Conversion Units

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern         Connecting Cable *         Connector-Terminal Block Conversion Unit		Wiring method	Common terminals		
						XW2R-J34GD-C1	Phillips screw		
CJ1W-ID231	32 inputs	1 Fujitsu connector	NPN/PNP	А	XW2Z-DDDPF	XW2R-E34GD-C1	Slotted screw (rise up)	No	
						XW2R-P34GD-C1	Push-in spring		
				A		XW2R-J34GD-C2	Phillips screw		
CJ1W-ID232	32 inputs	1 MIL connector	NPN/PNP		XW2Z-□□□PM	XW2R-E34GD-C2	Slotted screw (rise up)	No	
						XW2R-P34GD-C2	Push-in spring		
	CJ1W-ID233 32 inputs 1 MIL				XW2Z-□□□PM	XW2R-J34GD-C2	Phillips screw		
CJ1W-ID233		1 MIL connector	NPN/PNP	A		XW2R-E34GD-C2	Slotted screw (rise up)	No	
Ĭ					XW2R-P34GD-C2	Push-in spring	1		
				N/PNP B		XW2R-J34GD-C1 (2 Units)	Phillips screw		
CJ1W-ID261	64 inputs	2 Fujitsu connectors			XW2Z-DDPF (2 pcs)	XW2R-E34GD-C1 (2 Units)	Slotted screw (rise up)	No	
				(2 000)	XW2R-P34GD-C1 (2 Units)	Push-in spring			
		4 inputs 2 MIL				XW2R-J34GD-C2 (2 Units)	Phillips screw		
CJ1W-ID262	64 inputs		nputs 2 MIL connectors NPN/F	NPN/PNP	в	XW2Z-□□□PM (2 pcs)	XW2R-E34GD-C2 (2 Units)	Slotted screw (rise up)	No
		(= poo)	XW2R-P34GD-C2 (2 Units)	Push-in spring	1				

\* The box  $\Box$  is replaced by the cable length. Note: For details, refer to the 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		Connecting Cab		ables	I/O Relay Terminals																					
Model	I/O capacity	External connectors	Polarity	pattern	Model *1	Quantity required	Model	I/O points	Quantity required	Wiring method																	
		1 Fujitsu	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring																	
CJ1W-ID231	32 inputs	connector	Sourcing	A	XW2Z-RI□C-□	1	G7TC-ID/IA16	16	2	Screw terminal																	
		(40 p)	(NPN/PNP)				G70A-ZIM16-5 *3	16	1	Screw terminal																	
		1 MIL Sinking/					G70V-SID16P(-1)(-C16) *2	16		Push-in spring																	
CJ1W-ID232	32 inputs	connector	Sourcing	Sourcing	Sourcing	A		Α	A	A	A	A	A	A XW2Z-RO	XW2Z-RO -D1	XW2Z-RO -D1	XW2Z-RO -D1	XW2Z-RO□-□-D1	XW2Z-RO -D1	XW2Z-RO -D1	XW2Z-RO -D1	A XW2Z-RO□-□-D1	1	G7TC-ID/IA16	16	2	Corous torminal
	(40 p) (NPN/PNF	(NPN/PNP)				G70A-ZIM16-5	16		Screw terminal																		
		1 MIL	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring																	
CJ1W-ID233	32 inputs	connector	puts connector	32 inputs connector	inputs connector Sour	Sourcing	Sourcing A	XW2Z-RO□-□-D1	1 1	G7TC-ID/IA16	16	2	O														
		(40 p)	(NPN/PNP)				G70A-ZIM16-5*3	16		Screw terminal																	
		2 Fujitsu	uitsu Sinking/	Sinking/	Sinking/	Sinking/	Sinking/	Sinking/	Sinking/		B XW2Z-RI□C-□		G70V-SID16P(-1)(-C16) *2	16		Push-in spring											
CJ1W-ID261	64 inputs	connectors	Sourcing	В			В	В	В	В		XW2Z-RI□C-□	2	G7TC-ID/IA16	16	4											
	(40 p) (NPN/PNP)	(NPN/PNP)				G70A-ZIM16-5 *3	16		Screw terminal																		
		2 MIL	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring																	
CJ1W-ID262		nnectors Sourcing B	XW2Z-RO -D1	XW2Z-RO -D1	2	G7TC-ID/IA16	16	4																			
		(40 p)	(NPN/PNP)			2)			G70A-ZIM16-5 *3	16		Screw terminal															

\*1. The box  $\Box$  is replaced by the cable length.

\*2. Either NPN inputs or PNP inputs can be used.

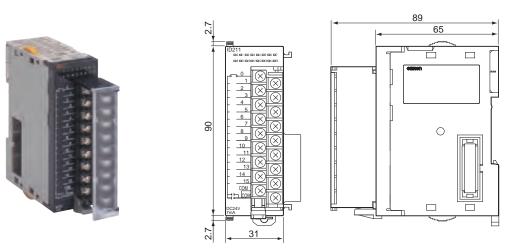
\*3. G70A-ZIM16-5 is a I/O terminal socket products. Relay is not provided with the socket. Be sure to order a relay, timer separetely. (with G2R Relays mounted: SPDT × 16)

(Unit: mm)

# Dimensions

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

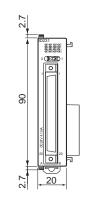
CJ1W-ID201 CJ1W-ID211 CJ1W-ID212 CJ1W-IA201 CJ1W-IA111

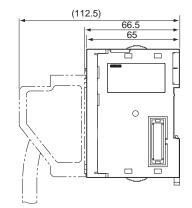


## 32-point Units (Input Units)

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

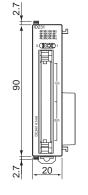


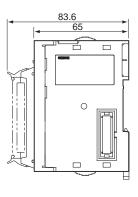




With MIL Connector (40-pin  $\times$  1) CJ1W-ID232 CJ1W-ID233





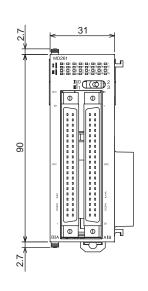


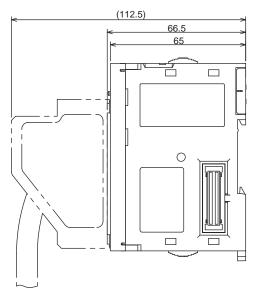
Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

# 64-point Units (Input Units)

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

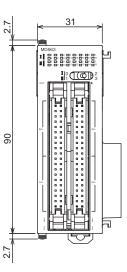


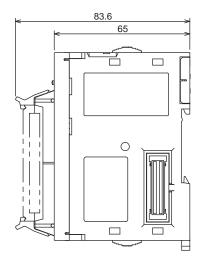




With MIL Connector (40-pin  $\times$  2) CJ1W-ID262







# **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 C, CJ1M-CPU Programmable Controllers Operation Manual	W393	Provides an outlines of and describes the design, installation, maintenance, and other basic operations for the CJ-series PLCs.
NJ-series CPU Unit Hardware User's Manual NJ501	W500	An introduction to the entire NJ-series system is provided along with the following information on a Controller built with an NJ501 CPU Unit. • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Maintenance and inspection Use this manual together with the NJ-series CPU Unit Software User's Manual (Cat. No. W501).

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