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 / OTAX 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		Sp	Current consumption (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 / OTAX 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 / OTAX 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 / OTAX 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	Connector Fujitsu FCN-361J040-AU Connector Cover Fujitsu FCN-360C040-J2 OTAX N360C040J2		C500-CE404	
40-pin Connectors	Housing		CJ1W-ID231(32 inputs): 1 per Unit CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs):1 per Unit	C500-CE405	
	Pressure welded	Fujitsu FCN-367J040-AU/F		C500-CE403	_
	Soldered	Connector Fujitsu FCN-361J024-AU Connector Cover Fujitsu FCN-360C024-J2 OTAX N360C024J2		C500-CE241	
24-pin Connectors	Crimped	Socket Fujitsu FCN-363J024 OTAX N363J024 Contactor Fujitsu FCN-363J-AU OTAX N363JAU Connector Cover Fujitsu FCN-360C024-J2 OTAX N360C024J2	Fujitsu / OTAX Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit	C500-CE242	
	Pressure welded	Fujitsu FCN-367J024-AU/F OTAX N367J024AUF		C500-CE243	

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

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

^{*} Crimp Contacts are also required. Refer to page 20 for details.

Applicable Connector-Terminal Block Conversion Units

		Number of	Number of	Wiring	Terminal		Size			nting	Common						
Туре	Series	connector poles	terminal block poles	mothod	type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	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		1		CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2K-40G-O32C				
	AVVZR			Push-In Plus									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	-		CJ1W-ID231 CJ1W-ID261	XW2R-J34GD-C1	_			
		40	34		M3	130.7	50	48.05	05	5	05				CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-J34GD-C2	
	XW2R			Slotted screw (rise up)	M3							CJ1W-ID231 CJ1W-ID261	XW2R-E34GD-C1				
		40	34	1	(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.
 * Representative models only. For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R Datasheet.

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 nin ECN Connector to One 40 nin MII. Connector	1.5	XW2Z-150B
	One 40-pin FCN 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 will Connector to One 40-pin will Connector	2	XW2Z-200K
		3	XW2Z-300K
		5	XW2Z-500K

Applicable I/O Relay Terminals

		Specifications					Size (hor	izontal m	ounting)	Mou	inting								
Туре	Series	Classi	ification	Polarity	Number of points	Rated ON current at contacts	Rated voltage	Horizontal (mm)	Vertical (mm)	Height (mm)	DIN Track	Screws	Model	Standards					
				NPN									G70V-SID16P *4						
		Innuta	DC	PNP	16	50 mA							G70V-SID16P-1 *4						
Push-In	G70V	inputs	Inputs	Inputs	Inputs	Inputs	inputs	inputs	NPN	(SPSTNO × 16)	50 IIIA							G70V-SID16P-C16 *5	
Plus				PNP			24 VDC	143	90	56	Yes	Yes	G70V-SID16P-1-C16 *5	UC, CE (TÜV					
terminal				NPN			24 VDC	143	90	50	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	Inputs	Inputs		NPN	16 (SPSTNO × 16)	1A	12 VDC	182					G7TC-ID16 DC12				
G7TC	G7TC			DC inputs		(5. 55 × 10)		24 VDC						G7TC-ID16 DC24					
	_						100/110 VDC						G7TC-ID16 DC100/110						
Standard	Company of the Compan				8		12 VDC	102	85	68	3 Yes	No	G7TC-OC08 DC12	U, C					
	2	Outputs	Outputs	Outputs		NPN	(SPSTNO × 8)		24 VDC	102					G7TC-OC08 DC24				
					Outputs	Outputs	Outputs	Outputs	Relay	INPIN	16	5A	12 VDC						G7TC-OC16 DC12
		Outputs	outputs		(SPSTNO × 16)	3A	24 VDC	182					G7TC-OC16 DC24						
			PNP	16		12 VDC	102					G7TC-OC16-1 DC12							
			I INI	(SPSTNO × 16)		24 VDC						G7TC-OC16-1 DC24							
High-	10	Inputs	Relay inputs	NPN/ PNP	16 (SPDT × 16	100 mA	110 VDC max., 240 VAC max. *2						G70A-ZOC16-5	U, C, CE					
capacity socket		Outputs	Outpute	Outpute	Outpute	Relay	NPN	possible with G2R Relays)	10 A (Ter- minal	0411/D0	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)		
	7		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- saving	Flat type G70D	Outputs		NPN	8 (SPSTNO×8)	5 A	24 VDC	68	93	44			G70D-SOC08						
saving	James .		Relay outputs	INFIN	16 (SPSTNO × 16)	3 A							G70D-SOC16						
	0			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	_					
	-	MOSFET relay	NPN	16 (SPSTNO × 16)	0.3 A							G70D-FOM16							
	0700		outputs	PNP	(OF STINU X 10)								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/OTAX connectors (24 pins)	(1:1)	16 I/O points		2,0	000	XW2Z-R200C
(1)	XW2Z-R□C			3,0	000	XW2Z-R300C
				5,000		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) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
Fujitsu/OTAX	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
connectors (40 pins)	XW2Z-RI□C-□		(120)	(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
MIL (00 -i)	(1:1) XW2Z-RI□C XW2Z-RO□C	16 I/O points	Device end I/O Relay Terminal	50	00	XW2Z-RI50C
MIL connectors (20 pins)		10 1/O points		2	50	XW2Z-RO25C
			L	500		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) →	(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
MIL connectors (40 pins)	(1:2)	32 I/O points		(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
MIL COMMECTORS (40 PINS)	XW2Z-RO□-□-D1,	02 I/O politis		(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)	Netsunated	Not supported	10 Units (per Expansion Backplane)
CJ1W-ID212							
CJ1W-ID231							
CJ1W-ID232	10 Units	10 Units					
CJ1W-ID233	10 Offics	(per Expansion Rack)			Not supported	Not supported	
CJ1W-ID261		,					
CJ1W-ID262							
CJ1W-IA201							
CJ1W-IA111							

^{*} Product no longer available to order.

Specifications

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

	input offit (12 to 24 400, 01 offits)						
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	$2.4~\mathrm{k}\Omega$						
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 o COM0 o Jxx_Ch1_In07 o Lagrange Signal name Jxx_Ch1_In07 o Lagrange Signal name Lagrange Signal name Signal name						
External connection and terminal-device variable diagram	Polarity of the input power supply can be connected in either direction. Polarity of the input power supply can be connected in either direction. The signal names of the terminals are the device variable names. The device variable names are the names that use "lixy" as the device name.						

^{*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.

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

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

^{*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-ID211 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-ID211
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	$20~\text{M}\Omega$ 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 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 name O 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_In09 O Jxx_Ch1_In10 A5 B5 Jxx_Ch1_In11 O Jxx_Ch1_In12 A6 B6 Jxx_Ch1_In13 O Jxx_Ch1_In13 O Jxx_Ch1_In15 O

^{*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)

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	$3.3~\mathrm{k}\Omega$
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 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	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 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 Signal name Signal name

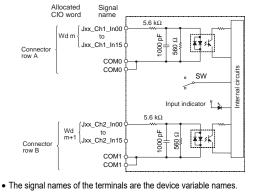
^{*1.} The ON response time will be 15 μs maximum and OFF response time will be 90 μs maximum even if the response time are set to 0 ms due

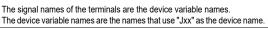
to internal element delays.
*2. Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

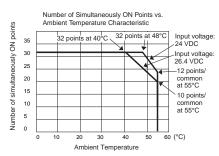
CJ1W-ID231 DC Input Unit (24 VDC, 32 Points)

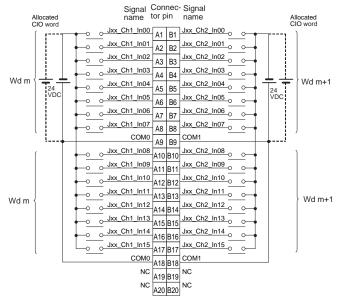
Name	32-point DC Input Unit with Fujitsu / OTAX Connector						
Model	CJ1W-ID231						
Rated Input Voltage	24 VDC						
Rated Input Voltage Range	20.4 to 26.4 VDC						
Input Impedance	5.6 kΩ						
Input Current	4.1 mA typical (at 24 VDC)						
ON Voltage/ON Current	19.0 VDC min./3 mA min.						
OFF 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	90 mA max.						
Weight	70 g max.						
Accessories	None						
	Allocated Signal						

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)

ame	32-point DC Input Unit with MIL Connector
lodel	CJ1W-ID232
ated Input Voltage	24 VDC
ated Input Voltage Range	20.4 to 26.4 VDC
put 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 urrent	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.) *
umber of Circuits	32 (16 points/common, 2 circuits)
umber of Simultaneously N Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)
sulation Resistance	20 M Ω min. between external terminals and the GR terminal (100 VDC)
ielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
ternal Current Consumption	90 mA max.
/eight	70 g max.
ccessories	None
CCCSSOTIES	NOTE:
ircuit Configuration	Connector row A Connector row B Connec
xternal connection nd terminal-device ariable diagram	Allocated CIO word Voc

^{*} 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)

Added CJ Rated Input Voltage 24 Rated Input Voltage Range 20 Rated Input Voltage Range 20 Rated Input Impedance 5.6 Rated Input Current 4.7 Rate Voltage/ON Current 19 Response Time 8.6	2-point DC Input Unit with MIL Connector 3.1W-ID233 4 VDC 0.4 to 26.4 VDC 6 kΩ .1 mA typical (at 24 VDC) 9.0 VDC min./3 mA min.
tated Input Voltage 24 lated Input Voltage Range 20 lated Input Impedance 5.6 lated Input Current 4.7 lated Input Current 19 lated Input Current 5.0 lated Input Voltage/ON Current 5.0 lated Input Voltage/ON Current 5.0 lated Input Voltage Range 20 lated Input I	4 VDC 0.4 to 26.4 VDC .6 kΩ .1 mA typical (at 24 VDC)
ated Input Voltage Range 20 nput Impedance 5.6 nput Current 4.1 DN Voltage/ON Current 19 DFF Voltage/OFF Current 5 VON Response Time 8.6	0.4 to 26.4 VDC .6 kΩ .1 mA typical (at 24 VDC)
nput Impedance 5.6 nput Current 4.1 DN Voltage/ON Current 19 DFF Voltage/OFF Current 5 Voltage/OFF Current 8.0 DN Response Time 8.0	.6 kΩ .1 mA typical (at 24 VDC)
DN Voltage/ON Current 19 DFF Voltage/OFF Current 5 \ DN Response Time 8.0	1 mA typical (at 24 VDC)
DN Voltage/ON Current 19 DFF Voltage/OFF Current 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
DFF Voltage/OFF Current 5 \ DN Response Time 8.0	9.0 VDC min./3 mA min.
ON Response Time 8.0	
·	VDC max./1 mA max.
OFF Response Time 8.0	.0 ms max. (Can be set to between 0 and 32 in the Setup.) *
	.0 ms max. (Can be set to between 0 and 32 in the Setup.) *
lumber of Circuits 32	2 (16 points/common, 2 circuits)
lumber of Simultaneously 75 Points	5% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)
nsulation Resistance 20	$0~\mathrm{M}\Omega$ min. between external terminals and the GR terminal (100 VDC)
Dielectric Strength 1,0	,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
nternal Current Consumption 20	00 mA max.
Veight 70	0 g max.
	lone
	Allocated CIO word name Connector row A Connector row B Connector row B
external connection nd terminal-device ariable diagram	Allocated CIO word 24 VDC

^{*} 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 Note: Observe 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 / OTAX Connector		
Model	CJ1W-ID261		
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	64 (16 points/common, 4 circuits)		
Number of Simultaneously ON Points	50% (16 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustrations.)		
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	90 mA max.		
Weight	110 g max.		
Accessories	None		
Circuit Configuration	Allocated Signal CIO word annee of Simultaneously ON Points vs. Ambient Temperature Characteristic Connector row A Connector row B Connecto		
External connection and terminal-device variable diagram * The ON response time	Allocated CIO word Signal Connec Signal Allocated Signal Signa		

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)

	pat ot (2 : 130, 0 : 1 oto)		
Name	64-point DC Input Unit with MIL Connector		
Model	CJ1W-ID262		
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	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 V	,	
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	90 mA max.		
Consumption	140		
Weight	110 g max.		
Accessories	None		
Circuit Configuration	Allocated Signal CIO word name Wd m Jkx_Ch1_In00	Number of Simultaneously ON Points vs. Ambient Temperature Characteristic 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) at 55°C 8 points/common (total: 45 points) at 55°C 8 points/common (total: 25 points max.) at 55°C 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 Allocated Signal Connec- Signal Allocated	CN2 Allocated Signal Connec-Signal Allocated CIO word pame to rain name CIO word	
External connection and terminal-device variable diagram	CIO word CIO word Name Tor pin Name CIO word	24 VDC	
	same polarity for both pins. Be sure to wire both pins 3 and 4 (COM1) of CN1, 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.	same polarity for both pins. Be sure to wire both pins 3 and 4 (COM3) of CN2, 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 	e will be 120 us maximum and OFF response time will be 400	us 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 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	80 mA max.		
Weight	130 g max.		
Accessories	None		
Circuit Configuration	$\begin{array}{c} \text{Signal} \\ \text{Name} \\ \text{Name} \\ \text{Signal} \\ \text{Name} \\ \text{Name}$		
External connection and terminal-device variable diagram	Connector pin **2		
	NC A6 B6 Jxx_Ch1_ln06		

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.

NC A8

СОМ

B8

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

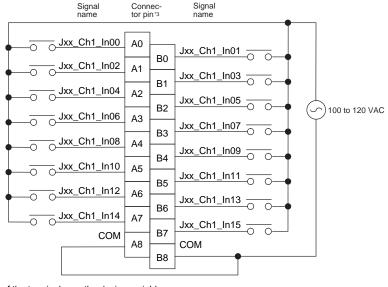
^{*1.} Can be set to 0 ms, 0.5 ms, 1 ms, 2 ms, 4 ms, 8 ms, 16 ms, or 32ms in the settings. When the response times have been set to 0 ms, the ON response time will be 10 ms maximum and the OFF response time will be 55 ms maximum due to internal element delays.

^{*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.

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 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	90 mA max.		
Weight	130 g max.		
Accessories	None		
Circuit Layout	Signal name Jxx_Ch1_In00 0 1 MΩ Jxx_Ch1_In15 0 0.22 μF 270 Ω The signal names of the terminals are the device variable names. The device variable names are the pages that we "law" as the device pages.		
	The device variable names are the names that use "Jxx" as the device name.		
	Signal Connector pin 3 Signal name Jxx_Ch1_In00 A0 B0 Jxx_Ch1_In01		
	Jxx_Ch1_ln02 A1 B1 Jxx_Ch1_ln03 O		

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 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 (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_In14
	15	IN15/Jxx_Ch1_ln15

32-point Input Unit

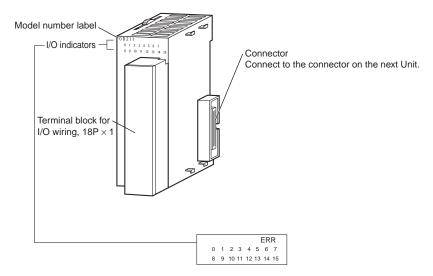
Allocated CIO word		Signal name (C I/N I)	
CIO	Bit	Signal name (CJ/NJ)	
	00	IN0/Jxx_Ch1_In00	
	01	IN1/Jxx_Ch1_In01	
Wd m (Input)	:	:	
(p.a.t)	14	IN14/Jxx_Ch1_In14	
	15	IN15/Jxx_Ch1_In15	
	00	IN0/Jxx_Ch2_In00	
	01	IN1/Jxx_Ch2_In01	
Wd m+1 (Input)	:	:	
(pat)	14	IN14/Jxx_Ch2_In14	
	15	IN15/Jxx_Ch2_In15	

64-point Input Unit

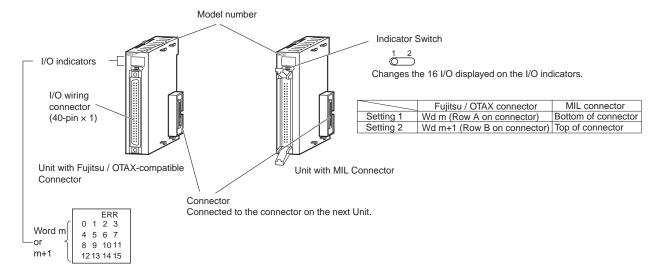
Allocated CIO word		0:
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(p.a.t)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15
	00	IN0/Jxx_Ch2_In00
	01	IN1/Jxx_Ch2_In01
Wd m+1 (Input)	:	:
(p.a.t)	14	IN14/Jxx_Ch2_In14
	15	IN15/Jxx_Ch2_In15
	00	IN0/Jxx_Ch3_In00
	01	IN1/Jxx_Ch3_In01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

External Interface

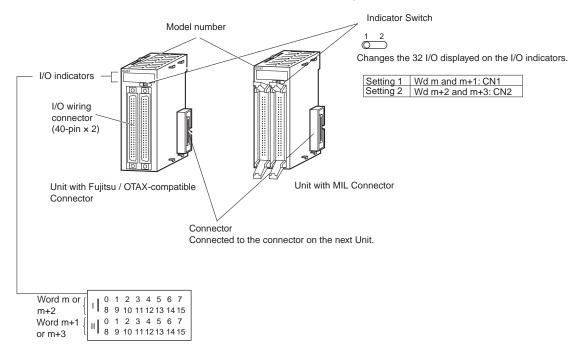
8-point/16-point Units (18-point Terminal Blocks)



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



64-point Units (Models with Two 40-point Fujitsu / OTAX 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.

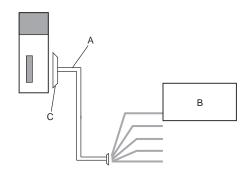


I/O Unit Wiring Methods

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.

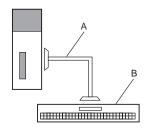


Α	User-provided cable
В	External device
С	Connector

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.

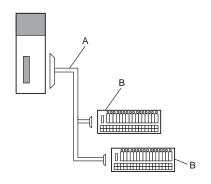


Α	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2□

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 / OTAX-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 / OTAX parts
Solder-type	40	C500-CE404		Fujitsu FCN-361J040-AU Fujitsu FCN-360C040-J2 OTAX N360C040J2
Crimped	40	C500-CE405	Connector cover:	Fujitsu FCN-363J040 OTAX N363J040 Fujitsu FCN-360C040-J2 OTAX N360C040J2 Fujitsu FCN-363J-AU OTAX N363JAU
Pressure-welded	40	C500-CE403	Fujitsu FCN-367J0	040-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 / OTAX connectors. Tools for Crimped Connectors (Fujitsu Component)

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

Tools for Pressure-welded Connectors (Fujitsu Component)

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

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

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

Tools for Crimped Connectors (OMRON)

Product Name	Model		
Manual Crimping Tool	XY2B-7007		

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

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

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units

Pattern	Configuration
Α	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

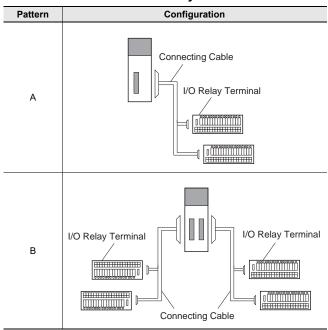
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals
CJ1W-ID231		1 Fujitsu / OTAX connector	NPN/PNP	А	XW2Z-□□B	XW2K-40G-O32A	Push-In Plus	No
	22 innuts					XW2K-40G-O32A-IN	Push-In Plus	Yes
	32 inputs					XW2R-J34GD-C1	Phillips screw	No
						XW2R-E34GD-C1	Slotted screw (rise up)	No
						XW2K-40G-O32C	Push-In Plus	No
CJ1W-ID232	22 innuts	1 MIL connector	NPN/PNP	A	V14/27 □□□L	XW2K-40G-O32C-IN	Push-In Plus	Yes
CJ 177-1D232	32 inputs				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
C3 1W-ID233						XW2R-J34GD-C2	Phillips screw	No
						XW2R-E34GD-C2	Slotted screw (rise up)	No
		2 Fujitsu / OTAX connectors	NPN/PNP	В	XW2Z-□□□B	XW2K-40G-O32A (2 Units)	Push-In Plus	No
CJ1W-ID261	64 inputs					XW2K-40G-O32A-IN (2 Units)	Push-In Plus	Yes
C3 1 W-1D20 1						XW2R-J34GD-C1 (2 Units)	Phillips screw	No
						XW2R-E34GD-C1 (2 Units)	Slotted screw (rise up)	No
		2 MIL connectors	NPN/PNP	В		XW2K-40G-O32C (2 Units)	Push-In Plus	No
CJ1W-ID262	64 inputs				XW2Z-□□□K (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 ☐ is replaced by the cable length.

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

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				Commontion	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 inputs	1 Fujitsu / OTAX connector (40 p)	Sinking/ Sourcing (NPN/PNP)	А	XW2Z-RI□C-□	1	G70V-SID16P(-1)(-C16) *2	16	2	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
							G70A-ZIM16-5 *3	16		
CJ1W-ID232	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	16		
CJ1W-ID233	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*3	16		
CJ1W-ID261	64 inputs	2 Fujitsu / OTAX 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 ☐ 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)

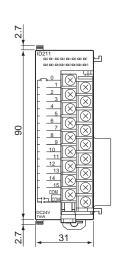
8-point/16-point Units (18-point Terminal Blocks)

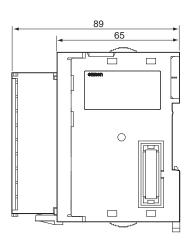
CJ1W-ID201 CJ1W-ID211 CJ1W-ID212

CJ1W-IA201

CJ1W-IA111



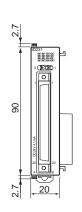


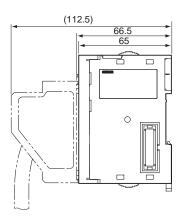


32-point Units (Input Units)

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

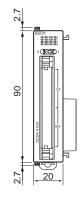


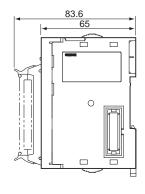




With MIL Connector (40-pin \times 1) CJ1W-ID232 CJ1W-ID233



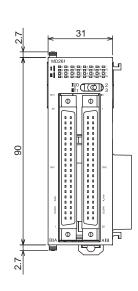


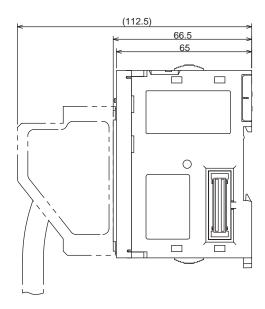


64-point Units (Input Units)

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

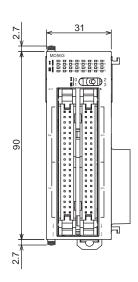


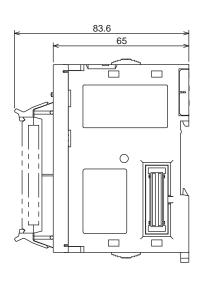




With MIL Connector (40-pin \times 2) CJ1W-ID262







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	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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