CJ-series Input Units

CJ1W-ID/IA

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

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







CJ1W-ID233

Features

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

Ordering Information

International Standards

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

Input Units

11	Unit type 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	Wodel	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	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	
	AMIL	64 inputs	24 VDC, 4.1 mA	16 points, 1 common	MIL connector	4 words	0.09	-	CJ1W-ID262	
	AC Input Units	8 inputs	200 to 24 VAC, 10 mA (200 V, 50 Hz)	8 points, 1 common	Removable Terminal Block	1 words	0.08	-	CJ1W-IA201	UC1, N, L, CE
		16 inputs	100 to 120 VAC, 7 mA (100 V, 50 Hz)	16 points, 1 common	Removable Terminal Block	1 words	0.09	-	CJ1W-IA111	

Accessories

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

Applicable Connectors

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

Name	Connection	Remarks		Applicable Units	Model	Standards
	Soldered			Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit	C500-CE404	
40-pin Connectors	Crimped	FCN-363J-AU Cont	ntactor nnector	CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs):1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE405	
	Pressure welded	FCN-367J040-AU/F			C500-CE403	
	Soldered		nnector nnector ver		C500-CE241	_
24-pin Connectors	Crimped		ntactor nnector	Fujitsu Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit	C500-CE242	
	Pressure welded	FCN-367J024-AU/F			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	Wiring	Terminal		Size		Mou	nting	Common	Bleeder				
Туре		of poles	method	type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws		resistance	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		CJ1W-ID232 CJ1W-ID233 CJ1W-ID262	XW2R-E34GD-C2	_
			Push-in spring										CJ1W-ID231 CJ1W-ID261	XW2R-P34GD-C1	
				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.

Connecting Cables for Connector-Terminal Block Conversion Units

Appearance	Connectors	Cable lenght [m]	Model
XW2Z-□□□PF		0.5	XW2Z-050PF
		1	XW2Z-100PF
	One 40 nin Fuilteu Connector to One 40 nin MII. 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-□□□PM		0.5	XW2Z-050PM
		1	XW2Z-100PM
))	One 40 pin MII. Connector to One 40 pin MII. 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

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

Applicable I/O Relay Terminals

				S	pecifications			Size (horizontal mounting) Mou			nting					
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			
		la acata	DC	PNP	16	50 A							G70V-SID16P-1 *4			
G70V	Inputs	inputs	NPN	(SPSTNO × 16)	50 mA							G70V-SID16P-C16 *5				
Plus	Push-In Plus			PNP			24 VDC	140	00	56	Yes	Vaa	G70V-SID16P-1-C16 *5	UC, CE		
terminal					NPN			24 VDC	143	90	56	res	Yes	G70V-SOC16P *4	(TÜV certified)	
block	一种的一种的	Outputs	Relay	PNP	16	6 A/point, 10 A/							G70V-SOC16P-1 *4	ĺ		
		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				200/(220) VAC						G7TC-IA16 AC200/220			
		Inputs		NPN	16 (SPSTNO × 16)	1A	12 VDC	182	2				G7TC-ID16 DC12			
	G7TC		DC inputs		(61 61116 × 16)		24 VDC						G7TC-ID16 DC24			
	The state of the s						100/110 VDC						G7TC-ID16 DC100/110			
Standard	STORY TO THE	Outputs	Outputs	Outputs			8		12 VDC	100	85	68	Yes	No	G7TC-OC08 DC12	U, C
	A STATE OF THE PARTY OF THE PAR					NPN	(SPSTNO × 8)		24 VDC	102	2				G7TC-OC08 DC24	
	100				Relay	INFIN	16	5A	12 VDC				•	G7TC-OC16 DC12	1	
	Out		outputs		(SPSTNO × 16)	SA	24 VDC	182					G7TC-OC16 DC24			
				PNP	16		12 VDC	102					G7TC-OC16-1 DC12			
				PNP	(SPSTNO × 16)		24 VDC						G7TC-OC16-1 DC24			
High-	G70A *1 (Socket only)	Inputs	uts Relay NPN/ PNP 16 (SPDT × 16	100 mA	110 VDC max., 240 VAC max. *2						G70A-ZOC16-5	U, C, CE				
capacity socket		Outoute	Outnute	Outputs	Relay	NPN	possible with G2R Relays)	10 A (Ter- minal	041//D0	234	75	64	Yes	No	G70A-ZOC16-3	(VDE certified)
	4	Outputs	outputs	PNP		block al- lowable	24 VDC						G70A-ZOC16-4			
	Vertical type G70D-V		Relay outputs			5 A or 3 A *3							G70D-VSOC16			
			MOSFET relay outputs	NPN	16 (SPSTNO × 16)	0.3 A		135	46	81	Yes	Yes	G70D-VFOM16	U, C, CE (VDE certified)		
Space-	Flat type G70D	Outputs		NPN	8 (SPSTNO×8)	5 A	24 VDC	68	93	44			G70D-SOC08			
saving	ALL LAND		Relay outputs	INPIN	16 (SPSTNO × 16)	3 A							G70D-SOC16			
	The same of the sa			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	_		
			MOSFET	NPN	16								G70D-FOM16			
	Thinning		relay outputs	PNP	(SPSTNO × 16)	0.3 A							G70D-FOM16-1			
High- capacity, space- saving	G70R	Outputs	Relay outputs	NPN	8 (SPSTNO×8)	10 A	24 VDC	136	93	55	Yes	Yes	G70R-SOC08 *7	-		

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

^{*2.} Each relay to be mounted must incorporate a coil that has proper specifications within the maximum rated voltage range.
*3. Eight or fewer points ON: 5 A, Nine or more points ON: 3 A.

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

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

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

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

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

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

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

Cables for I/O Relay Terminals

Туре	Name	I/O Classification	Appearance	Cable leng	gth L (mm)	Models
			A side B side	1,0	000	XW2Z-R100C
	Cables with Connectors		Device end I/O Relay Terminal	1,5	500	XW2Z-R150C
Fujitsu connectors (24 pins)	(1:1)	16 I/O points		2,0	000	XW2Z-R200C
	XW2Z-R□C			3,000		XW2Z-R300C
				5,0	000	XW2Z-R500C
				(A) 1,000	(B) 750	XW2Z-RI100C-75
			A side B side	(A) 1,500	(B) 1,250	XW2Z-RI150C-125
		32 input points	Device end I/O Relay Terminal (A) →	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
Fujitsu connectors (40 pins)	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
r ujitsu connectors (40 pins)	XW2Z-RI□C-□			(A) 1,000	(B) 750	XW2Z-RO100C-75
	XW2Z-RO□C-□	32 output points	(120)	(A) 1,500	(B) 1,250	XW2Z-RO150C-125
			(B) —	(A) 2,000	(B) 1,750	XW2Z-RO200C-175
			Straight length (without bends)	(A) 3,000	(B) 2,750	XW2Z-RO300C-275
				(A) 5,000	(B) 4,750	XW2Z-RO500C-475
	Cables with Connectors		A side B side	25	50	XW2Z-RI25C
MIL account (00 mins)	(1:1)	16 I/O points	Device end I/O Relay Terminal	50	00	XW2Z-RI50C
MIL connectors (20 pins)	XW2Z-RI□C			250		XW2Z-RO25C
	XW2Z-RO□C		L	50	00	XW2Z-RO50C
				(A) 500	(B) 250	XW2Z-RO50-25-D1
			İ	(A) 750	(B) 500	XW2Z-RO75-50-D1
				(A) 1,000	(B) 750	XW2Z-RO100-75-D1
			A side B side	(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1
			Device end I/O Relay Terminal	(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1
	Cables with Connectors		(A)	(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
MIL connectors (40 pins)	(1:2)	32 I/O points		(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
MIL connectors (40 pins)	XW2Z-RO□-□-D1,	32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
	XW2Z-RI□-□-D1		(120)	(A) 750	(B) 500	XW2Z-RI75-50-D1
			(B)	(A) 1,000	(B) 750	XW2Z-RI100-75-D1
			Straight length (without bends)	(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
				(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
				(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
				(A) 5,000	(B) 4,750	XW2Z-RI500-475-D1

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

Mountable Racks

	NJ sy	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			40 Units	10 Units (per Expansion Backplane)	Not supported	Networked	10 Units
CJ1W-ID212							
CJ1W-ID231							
CJ1W-ID232	10 Units	10 Units					
CJ1W-ID233	10 Offics	(per Expansion Rack)	10 Units			Not supported	(per Expansion Backplane)
CJ1W-ID261		,		. ,			,
CJ1W-ID262							
CJ1W-IA201							
CJ1W-IA111							

Specifications

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

	o input offit (12 to 24 450, 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 kΩ
Input Current	10 mA typical (at 24 VDC)
ON Voltage/ON Current	8.8 VDC min./3 mA min.
OFF Voltage/OFF Current	3 VDC max./1 mA max.
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 ms in the Setup.) *1
Number of Circuits	8 independent circuits
Number of Simultaneously ON Points	100% simultaneously ON
Insulation Resistance	$20~\text{M}\Omega$ min. between external terminals and the GR terminal (100 VDC)
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.
Internal Current Consumption	80 mA max.
Weight	110 g max.
Circuit Configuration	Signal name Jxx_Ch1_In00 o Lag COM0 o Jxx_Ch1_In07 o Lag COM7 o The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
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 "lyx" 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)

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	$3.3~\mathrm{k}\Omega$
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	80 mA max.
Weight	110 g max.
Circuit Configuration	Signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
External connection and terminal-device variable diagram	Signal name pin *2 Signal name Signal name Signal name Signal 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.
*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 Jxx_Ch1_In00 Jxx_Ch1_In15 COM Input indicator Input indicator Input indicator The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.
External connection and terminal-device variable diagram	Signal name Signal Connector Signal name

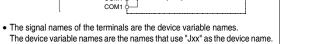
^{*1.} The ON response time will be 15 μs maximum and OFF response time will be 90 μs maximum even if the response time are set to 0 ms due

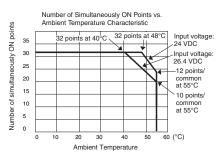
to internal element delays.
*2. Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

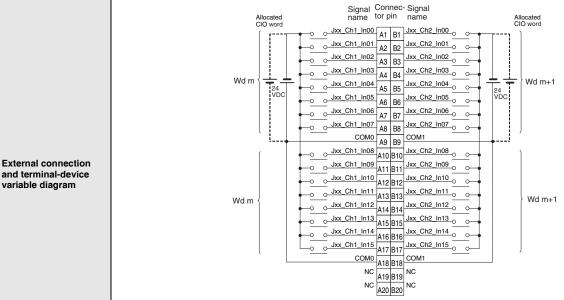
CJ1W-ID231 DC Input Unit (24 VDC, 32 Points)

Name	32-point DC Input Unit with Fujitsu Connector					
Model	CJ1W-ID231					
Rated Input Voltage	24 VDC					
Rated Input Voltage Range	20.4 to 26.4 VDC					
Input Impedance	$5.6~\mathrm{k}\Omega$					
Input Current	4.1 mA typical (at 24 VDC)					
ON Voltage/ON Current	19.0 VDC min./3 mA min.					
OFF Voltage/OFF Current	5 VDC max./1 mA max.					
ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *					
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *					
Number of Circuits	32 (16 points/common, 2 circuits)					
Number of Simultaneously ON Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)					
Insulation Resistance	$20~\text{M}\Omega$ min. between external terminals and the GR terminal (100 VDC)					
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.					
Internal Current Consumption	90 mA max.					
Weight	70 g max.					
Accessories	None					
	Allocated Signal CIO word name Number of Simultaneously ON Points vs. ((Jx Cht 1000					

Circuit Configuration 5.6 kΩ







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

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

- Make sure the input power supply voltage is larger than the ON voltage (19 V) plus the residual voltage of the sensor (approx. 3 V).
- Use a sensor with a minimum load current of 3 mA min.
- Connect bleeder resistance if you connect a sensor with a minimum load current of 5 mA or higher.

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

CJ1W-ID232 DC Input Unit (24 VDC, 32 Points)

	C input Offit (24 VDC, 32 Points)	
Name	32-point DC Input Unit with MIL Connector	
Model	CJ1W-ID232	
Rated Input Voltage	24 VDC	
Rated Input Voltage Range	20.4 to 26.4 VDC	
Input Impedance	5.6 kΩ	
Input Current	4.1 mA typical (at 24 VDC)	
ON Voltage/ON Current OFF Voltage/OFF	19.0 VDC min./3 mA min. 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	
Circuit Configuration	Number of Simultaneously ON Points vs. Ambient Temperature Characteristic Number of Simultaneously ON Points vs. Ambient Temperature Characteristic Input voltage: 24 VDC Input voltage: 26 4 VDC Input voltage: 27 VDC Input voltage: 28 VDC Input voltage: 29 VDC Input voltage: 20 VDC Input voltag	
External connection and terminal-device variable diagram	Allocated CIO word Competed Name Competed Cio prin Competed Cio word Cio word	
	Be sure to wire both pins 3 and 4 (COM1), and set the same polarity for both pins. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.	

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

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

- Make sure the input power supply voltage is larger than the ON voltage (19 V) plus the residual voltage of the sensor (approx. 3 V).
 Use a sensor with a minimum load current of 3 mA min.
- Connect bleeder resistance if you connect a sensor with a minimum load current of 5 mA or higher.

CJ1W-ID233 DC Input Unit (24 VDC, 32 Points)

Name	32-point DC Input Unit with MIL Connector
Model	CJ1W-ID233
Rated Input Voltage	24 VDC
Rated Input Voltage Range	20.4 to 26.4 VDC
nput Impedance	$5.6 \text{ k}\Omega$
nput Current	4.1 mA typical (at 24 VDC)
ON 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.) *
OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *
lumber of Circuits	32 (16 points/common, 2 circuits)
lumber of Simultaneously NN Points	75% (12 points/common) simultaneously ON (at 24 VDC) (Refer to the following illustration.)
nsulation 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.
nternal Current Consumption	200 mA max.
Veight	70 g max.
Accessories	None
Circuit Configuration	Allocated Signal name of 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 nd terminal-device ariable diagram	Allocated CIO word Signal Connector Signal Allocated CIO word 24 VDC
	The input power polarity can be connected in either direction. Be sure to wire both pins 23 and 24 (COM0), and set the same polarity for both pins. Be sure to wire both pins 3 and 4 (COM1), and set the same polarity for both pins. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

^{*} The ON response time will be 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	J1W-ID261		
Rated Input Voltage	4 VDC		
Rated Input Voltage Range	20.4 to 26.4 VDC		
Input Impedance	5.6 kΩ		
Input Current	4.1 mA typical (at 24 VDC)		
ON Voltage/ON Current	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	$20~\text{M}\Omega$ min. between external terminals and the GR terminal (100 VDC)		
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		
Internal Current Consumption	90 mA max.		
Weight	110 g max.		
Accessories	None		
Circuit Configuration	Allocated Signal CIO word name COnnector Wd Jxx_Ch1_In00 Connector row A CN1 CN1 Connector Wd Jxx_Ch2_In00 Connector row B COMM		
External connection and terminal-device variable diagram	Allocated CIO word No. Signal name Connector Signal Allocated CIO word Signal Signal Cionector Signal Signal Signal Cionector Signal S		

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

Name Minded input Voltage Race in put Rac	No			
Rated mput Voltage Range 20 4 to 28 4 VDC Input Impedance Input Current Imput Current	Name	64-point DC Input Unit with MIL Connector		
Rated many Votage Range Input impedance Input				
Finance		24 VDC		
Imput Current ON Hospaco N Current ON Florageo N Current ON Flora		20.4 to 26.4 VDC		
In put Carriert 19.9 VPC minst / max mins 19.9 VPC minst / max minst				
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Number of Simultaneously ON (at 24 VDC) (Refer to the following illustrations.)	•	, , , , , , , , , , , , , , , , , , , ,		
She glorithe common is multished by Nill glaz a VUC) (heefer to the booking illustrations.) Final state fine Resistance 20 MJ min. between steeral at lerminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. 1,000 VAC between the		64 (16 points/common, 4 circuits)		
The signal connection and terminal-device variable diagram 1.000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		50% (8 points/common) simultaneously ON (at 24 VDC) (Refer to the	e following illustrations.)	
So max max.	Insulation Resistance	$20~\text{M}\Omega$ min. between external terminals and the GR terminal (100 VI	DC)	
Weight Accessories None Accessories Accessorie	Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1	minute at a leakage current of 10 mA max.	
Weight 10 g max. Accessories None Accessories Accessories None Accessories	90 mA may			
Allocated Cid word Signal Contine Signal Contine Cid word safety can be device variable names. The device variable names are the device variable names. The device variable diagram Allocated Cid word Signal Contine Cid word and terminal as the device variable names. The input power polarity can be connected in either direction. Be sure to wire both pins. The signal name of the terminals are the device variable names. The input power polarity can be connected in either direction. Be sure to wire both pins. The signal names of the terminals are the device variable mass are the				
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Allocated CIO word name with cripin of the principle of t	Circuit Configuration	CIO word name Wd m Jxx_Ch1_In00	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 15 points/common at 55°C 15 points/common (total: 26 points max.) at 55°C Ambient Temperature	
	and terminal-device	CIO word CIO word Name tor pin Name CIO word	CIO word CIO word CIO word CIO word CIO word	
	* The ON recorded !	The device variable names are the names that use "Jxx" as the device name.		

^{*} 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	Signal name Input indicator Input indicato		
External connection and terminal-device variable diagram	Connector pin '2 Signal name NC A0 B0 Jxx_Ch1_In00 O O O O O O O O O O O O O O O O O O		
	NC A7 Jxx_Ch1_ln07		

СОМ

B8

A8

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

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

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

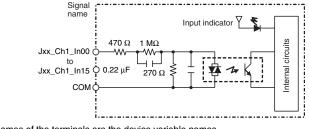
^{*1.} Can be set to 0 ms, 0.5 ms, 1 ms, 2 ms, 4 ms, 8 ms, 16 ms, or 32ms in the settings. When the response times have been set to 0 ms, the ON response time will be 10 ms maximum and the OFF response time will be 55 ms maximum due to internal element delays.

^{*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)

Circuit Layout

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	$20~\text{M}\Omega$ 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	
	Signal Input indicator Input indicator Jxx_Ch1_In00	



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

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

Signal name Connector pin*3 Signal name ____Jxx_Ch1_In00 A0 Jxx_Ch1_In01 B0 __ Jxx_Ch1_In02 В1 Jxx_Ch1_In04 A2 B2 100 to 120 VAC ВЗ **External connection** and terminal-device Jxx_Ch1_In09 variable diagram Jxx_Ch1_In10 A5 B5 Α6 В6 ____ Jxx_Ch1_In14 Jxx_Ch1_In15 В7 COM Α8 СОМ В8

- 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_ln14
	15	IN15/Jxx_Ch1_In15

32-point Input Unit

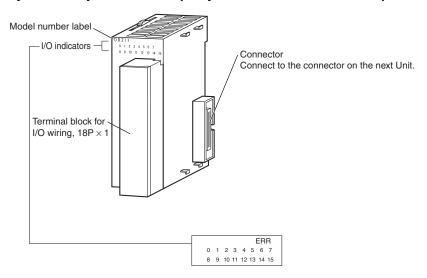
Allocated CIO word		Signal name (C I/N I)	
CIO	Bit	Signal name (CJ/NJ)	
	00	IN0/Jxx_Ch1_In00	
	01	IN1/Jxx_Ch1_In01	
Wd m (Input)	:	:	
(mpat)	14	IN14/Jxx_Ch1_In14	
	15	IN15/Jxx_Ch1_In15	
	00	IN0/Jxx_Ch2_In00	
	01	IN1/Jxx_Ch2_In01	
Wd m+1 (Input)	:	:	
	14	IN14/Jxx_Ch2_In14	
	15	IN15/Jxx_Ch2_In15	

64-point Input Unit

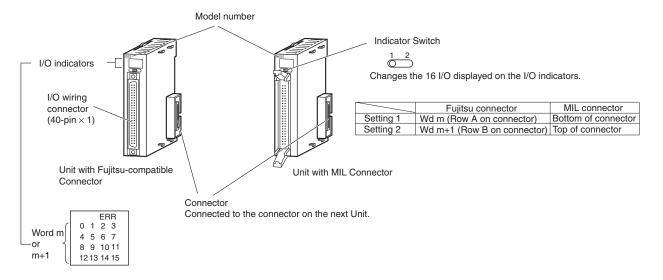
Allocated CIO word		Cinnal name (O I/N I)
CIO	Bit	Signal name (CJ/NJ)
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m (Input)	:	:
(mpat)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15
	00	IN0/Jxx_Ch2_In00
	01	IN1/Jxx_Ch2_In01
Wd m+1 (Input)	:	:
(mpat)	14	IN14/Jxx_Ch2_In14
	15	IN15/Jxx_Ch2_In15
	00	IN0/Jxx_Ch3_In00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

External Interface

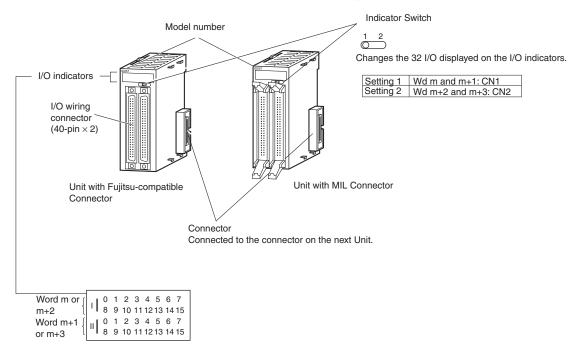
8-point/16-point Units (18-point Terminal Blocks)



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



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



Wiring Basic I/O Units with Terminal Blocks

Electric Wires

The following wire gauges are recommended.

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

Crimp terminals

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

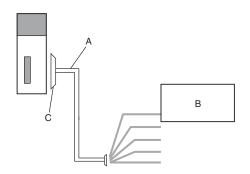


I/O Unit Wiring Methods

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

1. User-provided Cable

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

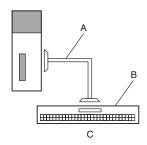


Α	User-provided cable	
В	External device	
С	Connector	

2. Connector-Terminal Block Conversion Unit

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

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

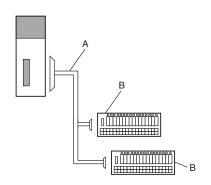


Α	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2R
С	Conversion to a screw terminal block

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.

Wire Size

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

Crimping Tools

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

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

Tools for Pressure-welded Connectors (Fujitsu Component)

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

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

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

Tools for Crimped Connectors (OMRON)

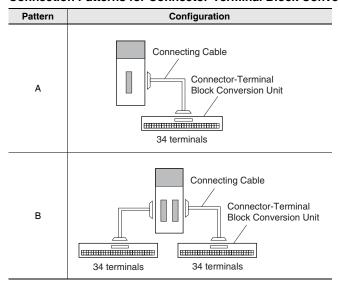
Tools for drimpou definitions,							
Product Name	Model						
Manual Crimping Tool	XY2B-7007						

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

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

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units



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

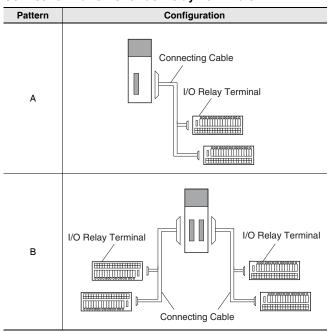
Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals			
						XW2R-J34GD-C1	Phillips screw				
CJ1W-ID231	32 inputs	1 Fujitsu connector	NPN/PNP	Α	XW2Z-□□□PF	XW2R-E34GD-C1	Slotted screw (rise up)	No			
						XW2R-P34GD-C1	Push-in spring				
						XW2R-J34GD-C2	Phillips screw				
CJ1W-ID232	32 inputs	1 MIL connector	NPN/PNP	Α	XW2Z-□□□PM	XW2R-E34GD-C2	Slotted screw (rise up)	No			
		COMMODICA				XW2R-P34GD-C2	Push-in spring				
	32 inputs	1 MIL connector						XW2R-J34GD-C2	Phillips screw		
CJ1W-ID233			NPN/PNP	Α		XW2R-E34GD-C2	Slotted screw (rise up)	No			
						XW2R-P34GD-C2	Push-in spring				
						XW2R-J34GD-C1 (2 Units)	Phillips screw				
CJ1W-ID261	64 inputs	2 Fujitsu connectors		В	XW2Z-□□□PF (2 pcs)	XW2R-E34GD-C1 (2 Units)	Slotted screw (rise up)	No			
		000010.0			(2 600)	XW2R-P34GD-C1 (2 Units)	Push-in spring				
						XW2R-J34GD-C2 (2 Units)	Phillips screw				
CJ1W-ID262	64 inputs	2 MIL connectors	NPN/PNP	В	XW2Z-□□□PM (2 pcs)	XW2R-E34GD-C2 (2 Units)	Slotted screw (rise up)	No			
					(- /	XW2R-P34GD-C2 (2 Units)	Push-in spring				

* The 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 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								
		1 Fujitsu	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring								
CJ1W-ID231	32 inputs	connector	Sourcing	Α	XW2Z-RI□C-□	1	G7TC-ID/IA16	16	2	Screw terminal								
		(40 p)	(NPN/PNP)				G70A-ZIM16-5 *3	16		Screw terminal								
		1 MIL	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring								
CJ1W-ID232		inputs connector S	Sourcing	Α	XW2Z-RO□-□-D1	1	G7TC-ID/IA16	16	2	Screw terminal								
			(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(NPN/PNP)				G70A-ZIM16-5	16
	32 inputs c		1 MIL	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring							
CJ1W-ID233		connector	connector Sourcing	ng A	XW2Z-RO□-□-D1	XW2Z-RO□-□-D1	XW2Z-RO□-□-D1	XW2Z-RO□-□-D1	XW2Z-RO□-□-D1	1	G7TC-ID/IA16	16	2	Caravi tarmin al				
		(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(40 p)	(NPN/PNP)				G70A-ZIM16-5*3	16	1	Screw terminal	
		2 Fujitsu	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring								
CJ1W-ID261	64 inputs	connectors	Sourcing	В	XW2Z-RI□C-□	2	G7TC-ID/IA16	16	4	Caracu tarmain al								
		(40 p)	(NPN/PNP)				G70A-ZIM16-5 *3	16		Screw terminal								
		2 MIL	Sinking/				G70V-SID16P(-1)(-C16) *2	16		Push-in spring								
CJ1W-ID262	64 inputs	64 inputs	64 inputs		3	В	XW2Z-RO□-□-D1	2	G7TC-ID/IA16	16	4	Canaus tamair - I						
		(40 p)	(NPN/PNP)				G70A-ZIM16-5 *3	16		Screw terminal								

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

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

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

Dimensions (Unit: mm)

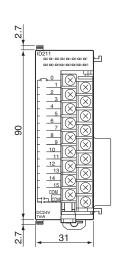
8-point/16-point Units (18-point Terminal Blocks)

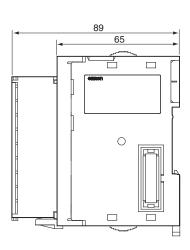
CJ1W-ID201 CJ1W-ID211 CJ1W-ID212

CJ1W-IA201

CJ1W-IA111



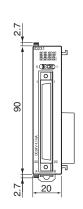


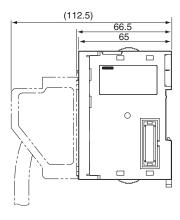


32-point Units (Input Units)

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

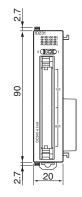


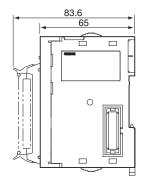




With MIL Connector (40-pin \times 1) CJ1W-ID232 CJ1W-ID233



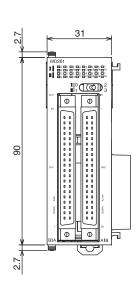


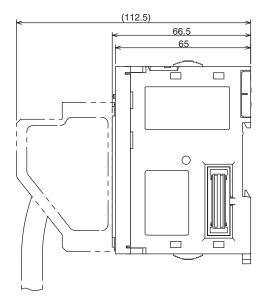


64-point Units (Input Units)

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

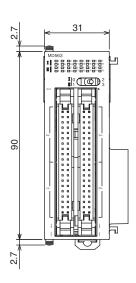


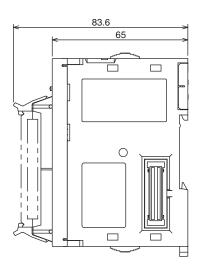




With MIL Connector (40-pin \times 2) CJ1W-ID262







Related Manuals

Name	Cat. No.	Contents
CJ-series CJ2 CPU Unit Hardware User's Manual CJ2H-CPU6□-EIP CJ2H-CPU6□ CJ2M-CPU□□	W472	Describes the following for CJ2 CPU Units: Overview and features Basic system configuration Part nomenclature and functions Mounting and setting procedure Remedies for errors Also refer to the Software User's Manual (W473).
SYSMAC CJ Series CJ1H-CPU H-R, CJ1G/H-CPU H, CJ1G-CPU P, CJ1G-CPU CJ1M-CPU Programmable Controllers Operation Manual	W393	Provides an outlines of and describes the design, installation, maintenance, and other basic operations for the CJ-series PLCs.
NJ-series CPU Unit Hardware User's Manual NJ501-	W500	An introduction to the entire NJ-series system is provided along with the following information on a Controller built with an NJ501 CPU Unit. • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Maintenance and inspection Use this manual together with the NJ-series CPU Unit Software User's Manual (Cat. No. W501).

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