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CJ-series Mixed I/O Units

CJ1W-MD

CSM_CJ1W-MD_DS_E_9_7

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

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







CJ1W-MD231

CJ1W-MD261

CJ1W-MD563

Features

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

Ordering Information

International Standards

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

Mixed I/O Units

				Specification	ons				rent mption A)		
Unit type	Product name	Output	I/O points	Input voltage, Input current	Commons	External	No. of words	5 V 2	24 V	Model	Standards
		type	70 points	Maximum switching capacity	Commons	connection	allocated	3 V	24 V		
		Sinking	16 inputs	24 VDC, 7 mA	16 points, 1 common	Fujitsu	2 words	0.13	_	CJ1W-MD231	UC1, N,
	DC Input/ Transistor	Siriking	16 outputs	250 VAC/24 VDC, 0.5 A	16 points, 1 common	connector	2 words	0.13	_	CJ I W-WD23 I	CE
	Output Units	Sinking	16 inputs	24 VDC, 7 mA	16 points, 1 common	MIL	0	0.10		CJ1W-MD233	
		Siriking	16 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	connector	2 words	0.13	_	CJ I W-WD233	
		Sinking	32 inputs	24 VDC, 4.1 mA	16 points, 1 common	Fujitsu	4 words	0.14		CJ1W-MD261	UC1, N,
	3.50	Sinking	32 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	connector	4 words	0.14	_	CJ I W-WD261	CE
CJ1 Basic		Sinking	32 inputs	24 VDC, 4.1 mA	16 points, 1 common	MIL	4 words	0.14	_	CJ1W-MD263	
I/O Units		Siriking	32 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	connector	4 Words	0.14	_	COTW-WD203	
	35.50	Sourcing	16 inputs	24 VDC, 7 mA	16 points, 1 common	MIL	2 words	0.13	_	CJ1W-MD232	UC1, N, L,
		Sourcing	16 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	connector	2 words	0.13	_	CJ I W-WD232	CE
	TTL I/O Units		32 inputs	5 VDC, 35 mA	16 points, 1 common	MIL					UC1, N,
		_	32 outputs	5 VDC, 35 mA	16 points, 1 common	connector	4 words	0.19	_	CJ1W-MD563	CE CE

Accessories

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

Applicable Connectors

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

Name	Connection	Rem	arks	Applicable Units	Model	Standards
	Soldered	FCN-361J040-AU FCN-360C040-J2	Connector Connector Cover	Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit	C500-CE404	
40-pin Connectors	Crimped	FCN-363J040 FCN-363J-AU FCN-360C040-J2	Housing Contactor Connector Cover	CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit	C500-CE405	
	Pressure welded	FCN-367J040-AU/F		CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit	C500-CE403	
	Soldered	FCN-361J024-AU FCN-360C024-J2	Connector Connector Cover		C500-CE241	_
24-pin Connectors	Crimped	FCN-363J024 FCN-363J-AU FCN-360C024-J2	Socket Contactor Connector Cover	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 (32 inputs): 1 per Unit CJ1W-OD232/233 (32 outputs):1 per Unit	XG4M-4030-T	
Connectors	Crimped	-	CJ1W-ID262 (64 inputs): 2 per Unit CJ1W-OD262/263 (64 outputs): 2 per Unit CJ1W-MD263/563 (32 inputs, 32 outputs): 2 per Unit	XG5N-401*	_
20-pin	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	Series	of poles	method	type	Depth (mm)	Height (mm)	Width (mm)	DIN Track	Screws	terminals		Indicators	I/O Units	Model *	Standards
		20			50	48.05	81.7						CJ1W-MD231 CJ1W-MD232 CJ1W-MD233	XW2R-J20GD-T	
			Phillips screw										CJ1W-MD261	XW2R-J34GD-C1	
				МЗ									OOT W-WIDZOT	XW2R-J34GD-C3	
		34			50	48.05	130.7						CJ1W-MD263	XW2R-J34GD-C2	
		01				10.00	100.7						001111111111111111111111111111111111111	XW2R-J34GD-C4	
													CJ1W-MD563	XW2R-J34GD-C2	
													OUT WIDOOD	XW2R-J34GD-C4	
		20	0 1 1		50	48.05	81.7						CJ1W-MD231 CJ1W-MD232 CJ1W-MD233	XW2R-E20GD-T	
			Slotted screw (rise up)										O IAW MDood	XW2R-E34GD-C1	
General- purpose	XW2R		(M3 (European				Yes	_	No	No	No	CJ1W-MD261	XW2R-E34GD-C3	1 _
devices,	X 11211	34		type)	50	44.81	00.5	100		110	110	110	CJ1W-MD263	XW2R-E34GD-C2	
PLC		34			50	44.61	98.5						CJ I W-WID263	XW2R-E34GD-C4	
													CJ1W-MD563	XW2R-E34GD-C2	
													CJ I W-WID563	XW2R-E34GD-C4	
		20	Push-in		50	48.05	81.7						CJ1W-MD231 CJ1W-MD232 CJ1W-MD233	XW2R-P20GD-T	
			spring										CJ1W-MD261	XW2R-P34GD-C1	
			4	Clamp									OU I W-WIDZOI	XW2R-P34GD-C3	1
		34	THE REAL PROPERTY.		50	44.81	08 5						CJ1W-MD263	XW2R-P34GD-C2	
		∪ +			30	74.01	30.5						OU I W-WIDZOO	XW2R-P34GD-C4	
													CJ1W-MD563	XW2R-P34GD-C2	
													CO I W-WIDSOS	XW2R-P34GD-C4	1

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

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

Connecting Cables for Connector-Terminal Block Conversion Units

Appearance	Connectors	Cable lenght [m]	Model
		0.5	XW2Z-050A
		1	XW2Z-100A
XW2Z-□□□A		1.5	XW2Z-150A
		2	XW2Z-200A
	One 24-pin Fujitsu Connector to	3	XW2Z-300A
	One 20-pin MIL Connector	5	XW2Z-500A
3		7	XW2Z-700A
		10	XW2Z-010A
		15	XW2Z-15MA
		20	XW2Z-20MA
XW2Z-□□□X		0.5	XW2Z-C50X
		1	XW2Z-100X
	One 20-pin MIL Connector to	2	XW2Z-200X
	One 20-pin MIL Connector	3	XW2Z-300X
		5	XW2Z-500X
•		10	XW2Z-010X
XW2Z-□□□PF		0.5	XW2Z-050PF
		1	XW2Z-100PF
	One 40-pin Fujitsu Connector to	1.5	XW2Z-150PF
	One 40-pin MIL Connector	2	XW2Z-200PF
		3	XW2Z-300PF
		5	XW2Z-500PF
XW2Z-□□PM		0.5	XW2Z-050PM
		1	XW2Z-100PM
))	One 40-pin MIL Connector to	1.5	XW2Z-150PM
	One 40-pin MIL Connector	2	XW2Z-200PM
		3	XW2Z-300PM
		5	XW2Z-500PM

Applicable I/O Relay Terminals

				S	pecifications	.		Size (hor	izontal m	ounting)	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	
			DC	PNP	16	50 A							G70V-SID16P-1 *4	
Push-In	G70V	Inputs	inputs	NPN	(SPSTNO × 16)	50 mA							G70V-SID16P-C16 *5	
Plus				PNP			24 VDC	140	90	56	Vaa	Vaa	G70V-SID16P-1-C16 *5	UC, CE
terminal				NPN			24 VDC	143	90	56	Yes	Yes	G70V-SOC16P *4	(TÜV certified)
block		Outputs	Relay	PNP	16	6 A/point,							G70V-SOC16P-1 *4	ĺ
		Outputs	outputs	NPN	(SPDT × 16)	10 A/ 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					G7TC-ID16 DC12	
	G7TC		DC inputs		(6. 66 × 10)		24 VDC						G7TC-ID16 DC24	
			Inputo				100/110 VDC						G7TC-ID16 DC100/110	
Standard					8		12 VDC	102	85	68	Yes	No	G7TC-OC08 DC12	U, C
	and the same			NPN	(SPSTNO × 8)		24 VDC	102					G7TC-OC08 DC24	
	353	Outputs	Relay	INFIN	16	5A	12 VDC						G7TC-OC16 DC12	
		Outputs	outputs		(SPSTNO × 16)	34	24 VDC	182					G7TC-OC16 DC24	
				PNP	16		12 VDC	102					G7TC-OC16-1 DC12	
				FINE	(SPSTNO × 16)		24 VDC						G7TC-OC16-1 DC24	
High-	G70A *1 (Socket only)	Inputs	Relay inputs	NPN/ PNP	16 (SPDT × 16	100 mA	110 VDC max., 240 VAC max. *2						G70A-ZOC16-5	U, C, CE
capacity socket		Outnuto	Relay	NPN	possible with G2R Relays)	10 A (Ter- minal	04.1/00	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	0.05
			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	HILLIAM		Relay outputs	INPIN	16 (SPSTNO × 16)	3 A							G70D-SOC16	
	unner			PNP	16 (SPSTNO × 16)	3 A		156	51	39	Yes	Yes	G70D-SOC16-1	_
	3		MOSFET	NPN	16								G70D-FOM16	
	THE SHARE		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	-

^{*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.

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	th L (mm)	Models
			A side B side	1,0	00	XW2Z-R100C
	Cables with Connectors		Device end I/O Relay Terminal	1,5	00	XW2Z-R150C
Fujitsu connectors (24 pins)	(1:1)	16 I/O points		2,0	00	XW2Z-R200C
	XW2Z-R□C			3,0	00	XW2Z-R300C
				5,0	00	XW2Z-R500C
			A side B side	(A) 1,000	(B) 750	XW2Z-RI100C-75
			Device end I/O Relay Terminal	(A) 1,500	(B) 1,250	XW2Z-RI150C-125
		32 input points	(A)	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
	(1:2)			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
Fujitsu connectors (40 pins)	XW2Z-RI□C-□			(A) 1,000	(B) 750	XW2Z-RO100C-75
	XW2Z-RI□C-□ XW2Z-RO□C-□		(120)	(A) 1,500	(B) 1,250	XW2Z-RO150C-125
	XWZZ NOEG E	32 output points		(A) 2,000	(B) 1,750	XW2Z-RO200C-175
			(B)	(A) 3,000	(B) 2,750	XW2Z-RO300C-275
			Straight length (without bends)	(A) 5,000	(B) 4,750	XW2Z-RO500C-475
	Cables with Connectors		A side B side	25	50	XW2Z-RI25C
MIL connectors (00 pine)	(1:1)	16 I/O points	Device end I/O Relay Terminal	50	00	XW2Z-RI50C
MIL connectors (20 pins)	XW2Z-RI□C	16 I/O points		25	50	XW2Z-RO25C
	XW2Z-RO□C			50	00	XW2Z-RO50C
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-RO75-50-D1
			A side B side	(A) 1,000	(B) 750	XW2Z-RO100-75-D1
			Device end I/O Relay Terminal	(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1
			(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 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
				(A) 1,000	(B) 750	XW2Z-RI100-75-D1
			(B)	(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
			Straight length (without bends)	(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
				(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
				(A) 5,000	(B) 4,750	XW2Z-RI500-475-D1

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

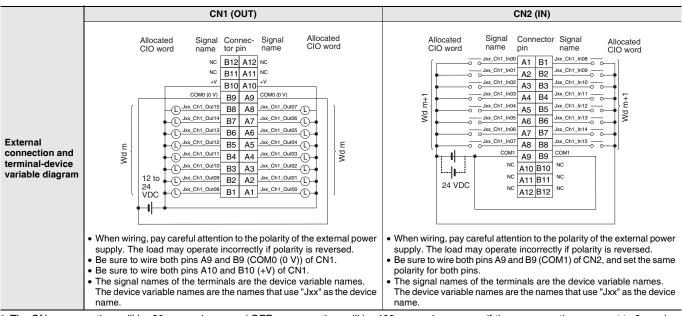
Mountable Racks

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

Specifications

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

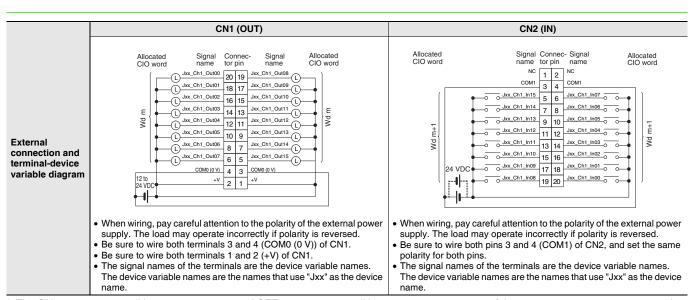
Name	16-point DC Input/16-point Transistor Output Unit with Fujitsu Connecto	ors (Siriking Outputs)	
Model	CJ1W-MD231	Input goation (ONO)	
Output section (C	N1)	Input section (CN2)	
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2.0 A/Unit	Input Impedance	3.3 kΩ
Maximum Inrush Current	4.0 A/point, 10 ms max.	Input Current	7 mA typical (at 24 VDC)
Leakage Current	0.1 mA max.	ON Voltage/ON Current	14.4 VDC min./3 mA min.
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.
ON Response Time	0.1 ms max.	ON Decree Times	8.0 ms max. (Can be set to between 0 and 32 in
OFF Response Time	0.8 ms max.	ON Response Time	the Setup.) *
No. of Circuits	16 (16 points/common, 1 circuit)	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in
Fuse	None	Time	the Setup.) *
		No. of Circuits	16 (16 points/common, 1 circuit)
External Power Supply	10.2 to 26.4 VDC, 20 mA min.	Number of Simultaneously ON Points	75% (at 24 VDC)
Insulation Resistance	$20~\text{M}\Omega$ min. between the external terminals and the GR terminal (at 100) VDC)	
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 m	inute at a leakage curre	ent of 10 mA max.
Internal Current Consumption	5 VDC 130 mA max.		
Weight	90 g max.		
Accessories	None CN1 (OUT)	1	CN2 (IN)
Circuit Configuration	Signal name Allocated CIO word +V Jxx_Ch1_Out00 To Jxx_Ch1_Out07 Wd m Connect or row A Connect or row B Connect or row B	Ambien	Signal name Jxx_Ch1_In00 to Jxx_Ch1_In07 COM1 Input indicator Jxx_Ch1_In15 COM1 OF Simultaneously ON Points vs. 1 Temperature Characteristic ints at 33°C 16 points at 45°C Input voltage: 24 VDC Input voltage: 26.4 VDC 12 points at 55°C 9 points at 55°C 20 40 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.		of the terminals are the device variable names. names are the names that use "Jxx" as the device



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

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

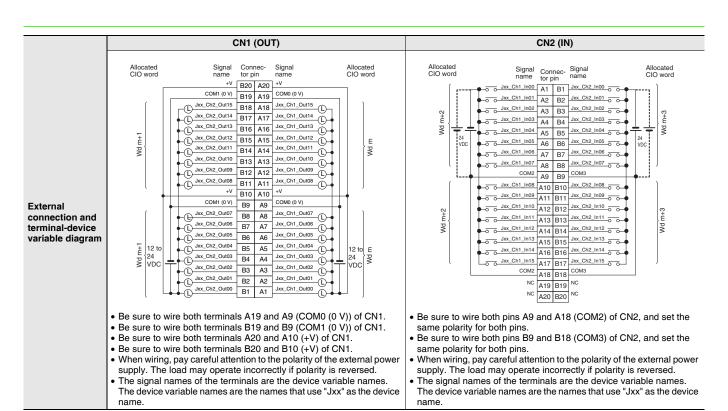
Name	16-point DC Input/16-point Transistor Output Unit with MIL Connectors	(Sinking Outputs)	
Model	CJ1W-MD233		
Output section (C	N1)	Input section (CN2)	
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2.0 A/Unit	Input Impedance	3.3 kΩ
Maximum Inrush Current	4.0 A/point, 10 ms max.	Input Current	7 mA typical (at 24 VDC)
Leakage Current	0.1 mA max.	ON Voltage/ON Current	14.4 VDC min./3 mA min.
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.
ON Response Time	0.1 ms max.	ON Decree Times	8.0 ms max. (Can be set to between 0 and 32 in
OFF Response Time	0.8 ms max.	ON Response Time	the Setup.) *
No. of Circuits Fuse	16 (16 points/common, 1 circuit) None	OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *
		No. of Circuits	16 (16 points/common, 1 circuit)
External Power Supply	10.2 to 26.4 VDC, 20 mA min.	Number of Simultaneously ON Points	75% (at 24 VDC)
Insulation Resistance	$20~\text{M}\Omega$ min. between the external terminals and the GR terminal (at 100) VDC)	
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 m	inute at a leakage curre	ent of 10 mA max.
Internal Current Consumption	5 VDC 130 mA max.		
Weight	90 g max.		
Accessories	None		
	CN1 (OUT)		CN2 (IN)
Circuit Configuration	Signal name Allocated CIO word +V Jxx_Ch1_Out00 to Jxx_Ch1_Out07 Wd m Output indicator +V Jxx_Ch1_Out08 to Jxx_Ch1_Out08 to Jxx_Ch1_Out15	CIO word	Signal name S.3 kΩ Ch1_In00 Ch1_In07 COM1 Input indicator Signal name S.3 kΩ Ch1_In08 Signal name Signal
	The signal names of the terminals are the device variable names.	Ambient Tei	Simultaneously ON Points vs. mperature Characteristic tts at 33°C 16 points at 45°C Input voltage: 24 VDC Input voltage: 26.4 VDC 12 points at 55°C 9 points at 55°C 20 40 60 (°C) Ambient Temperature



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

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

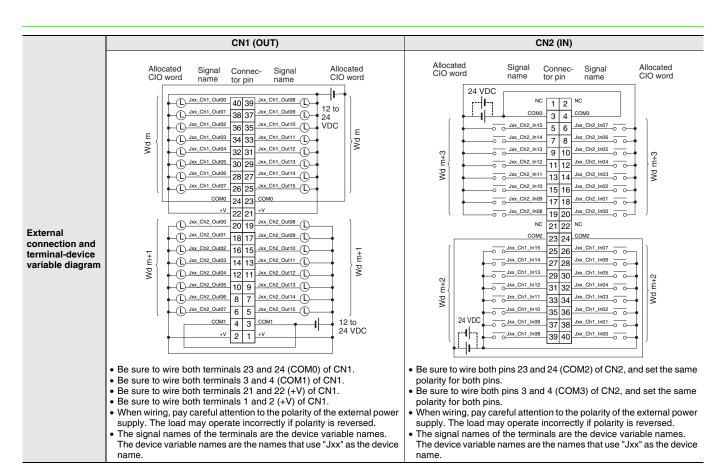
N		(0: 1: 0: ::	. ,
Name	32-point DC Input/32-point Transistor Output Unit with Fujitsu Connecto	rs (Sinking Outputs)	
Model	CJ1W-MD261	Input gastian (ONO)	
Output section (C Rated Voltage	12 to 24 VDC	Input section (CN2) Rated Input	24 VDC
Operating Load	10.2 to 26.4 VDC	Voltage Operating Input	20.4 to 26.4 VDC
Voltage Range Maximum Load	0.3 A/point, 1.6 A/common, 3.2 A/Unit	Voltage Input Impedance	5.6 kΩ
Current Maximum Inrush	3.0 A/point, 10 ms max.	Input Current	4.1 mA typical (at 24 VDC)
Current		ON Voltage/ON	, , ,
Leakage Current	0.1 mA max.	Current OFF Voltage/OFF	19.0 VDC min./3 mA min. *2
Residual Voltage ON Response	1.5 V max.	Current	5 VDC max./1 mA max.
Time	0.5 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in
OFF Response Time	1.0 ms max.	•	the Setup.) *1
No. of Circuits Fuse	32 (16 points/common, 2 circuits) None	OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *1
		No. of Circuits	32 (16 points/common, 2 circuits)
External Power Supply	10.2 to 26.4 VDC, 30 mA min.	Number of Simultaneously ON Points	75% (24 points) (at 24 VDC)
Insulation Resistance	$20~\text{M}\Omega$ min. between the external terminals and the GR terminal (at 100	VDC)	
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 min	nute at a leakage curre	ent of 10 mA max.
Internal Current Consumption	5 VDC 140 mA max.		
Weight	110 g max.		
Accessories	None		
Circuit Configuration	Signal Allocated CIO word 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. Number of Simultaneo Ambient Temperature of Simultaneo Ambient Simultaneo A	The signal names of The device variable name. usly ON Points vs. Characteristic	Signal name 5.6 kΩ to t



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

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

Andal		(Sinking Outputs)	
Model	CJ1W-MD263		
Output section (C	N1)	Input section (CN2)	
Rated Voltage	12 to 24 VDC	Rated Input Voltage	24 VDC
Operating Load /oltage Range	10.2 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 3.2 A/Unit	Input Impedance	5.6 kΩ
Maximum Inrush Current	3.0 A/point, 10 ms max.	Input Current	4.1 mA typical (at 24 VDC)
_eakage Current	0.1 mA max.	ON Voltage/ON Current	19.0 VDC min./3 mA min. *2
Residual Voltage	1.5 V max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.
ON Response Fime	0.5 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in
OFF Response Time	1.0 ms max.	Civiloponee riiile	the Setup.) *1
No. of Circuits Fuse	32 (16 points/common, 2 circuits) None	OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 ir the Setup.) *1
		No. of Circuits	32 (16 points/common, 2 circuits)
External Power Supply	10.2 to 26.4 VDC, 30 mA min.	Number of Simultaneously ON Points	75% (24 points) (at 24 VDC)
nsulation Resistance	20 M Ω min. between the external terminals and the GR terminal (at 100) VDC)	
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 mi	inute at a leakage curre	ent of 10 mA max.
nternal Current Consumption	5 VDC 140 mA max.		
Noight			
veigni	110 g max.		
Weight Accessories	110 g max. None CN1 (OUT)		CN2 (IN)
	CN1 (OUT) Signal name Allocated CIO word +V Jxx_Ch1_Out00 to Jxx_Ch1_Out15 COM0 COM0 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.	Wd m+2 Wd m+3 Jxx_C Wd m+3 Jxx_C The signal names of The device variable name.	CN2 (IN) Signal name h1_In00 10 10 10 10 10 10 10 10 10

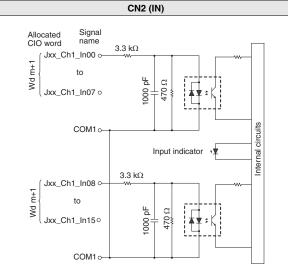


- *1. The ON response time will be 120 μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.
- *2. Observe the following restrictions when connecting to a 2-wire sensor.
 - Make sure the input power supply voltage is larger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

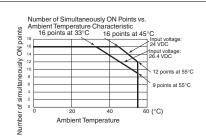
CJ1W-MD232 DC Input/Transistor Output Unit (24 VDC, 16 inputs/16 Outputs)

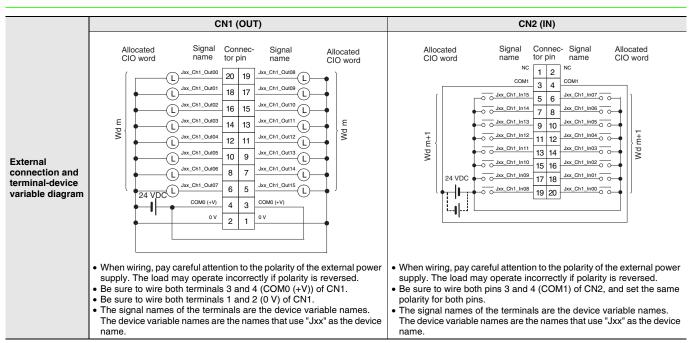
Name	16-point DC Input/16-point Transistor Output Unit with MIL Connectors (Sourcing Outputs)		
Model	CJ1W-MD232		
Output section (CN1)		Input section (CN2)	
Rated Voltage	24 VDC	Rated Input Voltage	24 VDC
Operating Load Voltage Range	20.4 to 26.4 VDC	Operating Input Voltage	20.4 to 26.4 VDC
Maximum Load Current	0.5 A/point, 2.0 A/Unit	Input Impedance	3.3 kΩ
Leakage Current	0.1 mA max.	Input Current	7 mA typical (at 24 VDC)
Residual Voltage	1.5 V max.	ON Voltage/ON Current	14.4 VDC min./3 mA min.
ON Response Time	0.5 ms max.	OFF Voltage/OFF Current	5 VDC max./1 mA max.
OFF Response Time	1.0 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *
Load Short- circuit Protection	Detection current: 0.7 to 2.5 A min. Automatic restart after error clearance.	OFF Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *
No. of Circuits	16 (16 points/common, 1 circuit)	No. of Circuits	16 (16 points/common, 1 circuit)
External Power Supply	20.4 to 26.4 VDC, 40 mA min. Number of Simultaneously ON Points 75% (at 24 VDC)		75% (at 24 VDC)
Insulation Resistance	20 M Ω min. between the external terminals and the GR terminal (at 100 VDC)		
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.		
Internal Current Consumption	5 VDC 130 mA max.		
Weight	100 g max.		
Accessories	None		

Circuit Configuration Circuit Configuration



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

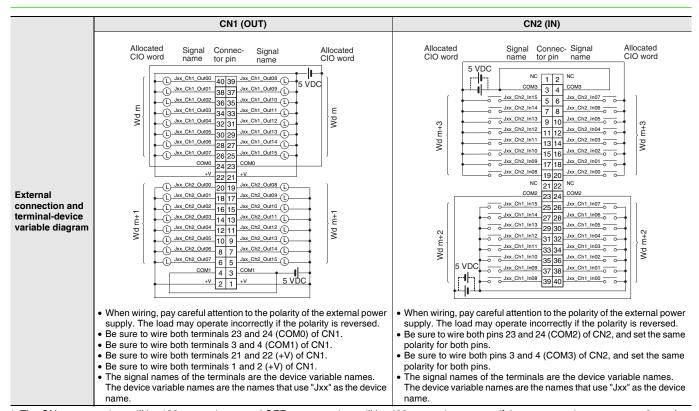




^{*} The ON response time will be 20 μs maximum and OFF response time will be 400 μs maximum even if the response times are set to 0 ms due to internal element delays.

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

Name	32-point Input /32-point Output TTL I/O Unit with MIL Connectors			
Model	CJ1W-MD563			
Output section (C	N1)	Input section (CN2)		
Rated Voltage	5 VDC±10%	Rated Input Voltage	5 VDC±10%	
Operating Load Voltage Range	4.5 to 5.5 VDC	Input Impedance	1.1 kΩ	
Maximum Load Current	35 mA/point, 560 mA/common, 1.12 A/Unit	Input Current	Approx. 3.5 mA (at 5 VDC)	
Leakage Current	0.1 mA max.	ON Voltage	3.0 VDC min.	
Residual Voltage	0.4 V max.	OFF Voltage	1.0 VDC max.	
ON Response Time	0.2 ms max.	ON Response Time	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *	
OFF Response Time	0.3 ms max.	OFF Response	8.0 ms max. (Can be set to between 0 and 32 in the Setup.) *	
No. of Circuits	32 points (16 points/common, 2 circuits)	0	and Colupty	
Fuse	None	No. of Circuits	32 points (16 points/common, 2 circuits)	
External Power Supply	5 VDC±10%, 40 mA min. (1.2 mA × No. of ON points)	Number of Simultaneously ON Points	100% (16 points/common)	
Insulation Resistance	20 M Ω min. between the external terminals and the GR terminal (at 100 VDC)			
Dielectric Strength	1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max.			
Internal Current Consumption	5 VDC 190 mA max.			
Weight	110 g max.			
Accessories	None			
	CN1 (OUT)		CN2 (IN)	
Circuit Configuration	* The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.		Signal name Ch1_In00 Ch1_In15 COM2 COM2 Ch2_Indicator switch Input indicator Ch2_In15 COM3 The terminals are the device variable names. names are the names that use "Jxx" as the device	



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

Bit Allocations for Mixed I/O Unit

32-point Mixed I/O Unit

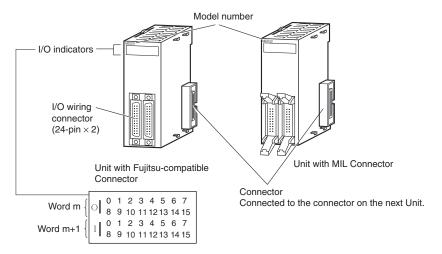
Allocated	Signal name (C I/N I)	
CIO	Bit	Signal name (CJ/NJ)
	00	OUT0/Jxx_Ch1_Out00
	01	OUT1/Jxx_Ch1_Out01
Wd m (Output)	:	:
(Odipai)	14	OUT14/Jxx_Ch1_Out14
	15	OUT15/Jxx_Ch1_Out15
	00	IN0/Jxx_Ch1_In00
	01	IN1/Jxx_Ch1_In01
Wd m+1 (Input)	:	:
(put)	14	IN14/Jxx_Ch1_In14
	15	IN15/Jxx_Ch1_In15

64-point Mixed I/O Unit

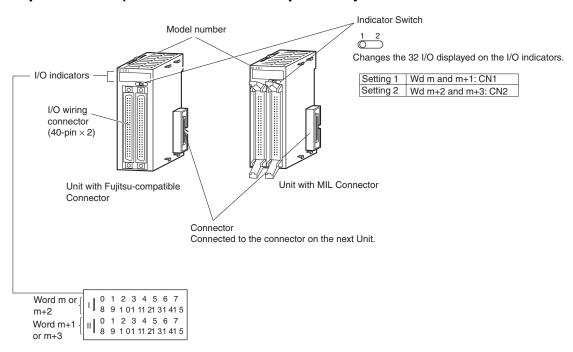
Allocated	Cinnal name (C I/N I)		
CIO	Bit	Signal name (CJ/NJ)	
	00	OUT0/Jxx_Ch1_Out00	
	01	OUT1/Jxx_Ch1_Out01	
Wd m (Output)	:	:	
(Galpai)	14	OUT14/Jxx_Ch1_Out14	
	15	OUT15/Jxx_Ch1_Out15	
	00	OUT0/Jxx_Ch2_Out00	
	01	OUT1/Jxx_Ch2_Out01	
Wd m+1 (Output)	:	:	
(Galpai)	14	OUT14/Jxx_Ch2_Out14	
	15	OUT15/Jxx_Ch2_Out15	
	00	IN0/Jxx_Ch1_In00	
	01	IN1/Jxx_Ch1_In01	
Wd m+2 (Input)	:	:	
(mpat)	14	IN14/Jxx_Ch1_ln14	
	15	IN15/Jxx_Ch1_In15	
	00	IN0/Jxx_Ch2_In00	
	01	IN1/Jxx_Ch2_In01	
Wd m+3 (Input)	:	:	
(par)	14	IN14/Jxx_Ch2_In14	
	15	IN15/Jxx_Ch2_In15	

External Interface

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



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

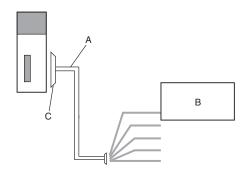


I/O Unit Wiring Methods

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

1. User-provided Cable

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

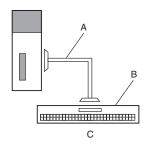


Α	User-provided cable
В	External device
С	Connector
	1

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.

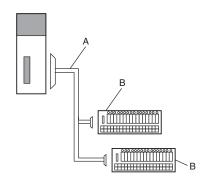


A	Connecting Cable for Connector-Terminal Block Conversion Unit XW2Z
В	Connector-Terminal Block Conversion Unit XW2□
С	Conversion to a screw terminal block

3. I/O Relay Terminal

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

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



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-MD261	24-VDC Input/Transistor Output Units, 32 Inputs, 32 Outputs	40
CJ1W-MD231	24-VDC Input/Transistor Output Units, 16 Inputs, 16 Outputs	24

Applicable Cable-side Connectors

Connection	Pins	OMRON set	Fujitsu parts
Salder type	40	C500-CE404	Socket: FCN-361J040-AU Connector cover: FCN-360C040-J2
Solder-type	24	C500-CE241	Socket: FCN-361J024-AU Connector cover: FCN-360C024-J2
Crimped	40	C500-CE405	Socket: FCN-363J040 Connector cover: FCN-360C040-J2 Contacts: FCN-363J-AU
Crimped	24	C500-CE242	Socket: FCN-363J024 Connector cover: FCN-360C024-J2 Contacts: FCN-363J-AU
Pressure-welded	40	C500-CE403	FCN-367J040-AU/F
F1655u16-W6lu6U	24	C500-CE243	FCN-367J024-AU/F

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

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

Applicable Cable-side Connectors

Connection	Pins	OMRON set	DDK parts
Pressure-welded	40	XG4M-4030-T *1	FRC5-A040-3T0S
r ressure-weided	20	XG4M-2030-T	FRC5-A020-3T0S
	40	XG5N-401 *2	HU-40OS2-001
Crimped	_	Crimp Contacts for XG5N *3 XG5W-0232 (loose contacts: 100 pieces) XG5W-0232-R (reel contacts: 10,000 pieces)	HU-111S

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

Wire Size

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

Crimping Tools

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

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

Tools for Pressure-welded Connectors (Fujitsu Component)

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

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

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

Tools for Crimped Connectors (OMRON)

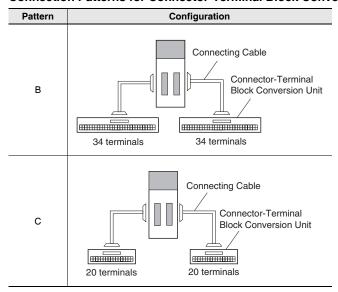
Product Name	Model
Manual Crimping Tool	XY2B-7007

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

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

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units



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-MD231 16 I/O points		2 Fujitsu connectors				XW2R-J20GD-T (2 Units)	Phillips screw	
	(1 for 16 inputs and	NPN	С	XW2Z-□□□A (2 pcs)	XW2R-E20GD-T (2 Units)	Slotted screw (rise up)	No	
		1 for 16 outputs)			(= p = =)	XW2R-P20GD-T (2 Units)	Push-in spring	
		2 MIL connectors	PNP	С	YW27-000	XW2R-J20GD-T (2 Units)	Phillips screw	No
CJ1W-MD232	16 I/O points	(1 for 16 inputs and				XW2R-E20GD-T (2 Units)	Slotted screw (rise up)	
		1 for 16 outputs)			(XW2R-P20GD-T (2 Units)	Push-in spring	
		2 MIL connectors				XW2R-J20GD-T (2 Units)	Phillips screw	
CJ1W-MD233	16 I/O points	(1 for 16 inputs and	NPN	С	XW2Z-□□□X (2 pcs)	XW2R-E20GD-T (2 Units)	Slotted screw (rise up)	No
		1 for 16 outputs)			(= p = =)	XW2R-P20GD-T (2 Units)	Push-in spring	
			NPN		XW2Z-□□□PF (1 pcs)	XW2R-J34GD-C1 (Input side of the unit)	Dhilling covery	
		2 Fujitsu connectors (1 for 32 inputs and 1 for 32 outputs)		В	XW2Z-□□□PF (1 pcs)	XW2R-J34GD-C3 (Output side of the unit)	Phillips screw	No
O IAW MBood	20.1/0				XW2Z-□□□PF (1 pcs)	XW2R-E34GD-C1 (Input side of the unit)	01 11 11 11	
CJ1W-MD261 32 I/O poin	32 I/O points				XW2Z-□□□PF (1 pcs)	XW2R-E34GD-C3 (Output side of the unit)	Slotted screw (rise up)	
					XW2Z-□□□PF (1 pcs)	XW2R-P34GD-C1 (Input side of the unit)		
					XW2Z-□□□PF (1 pcs)	XW2R-P34GD-C3 (Output side of the unit)	Push-in spring	
		2 MIL connectors (1 for 32 inputs and 1 for 32 outputs)	NPN	В	XW2Z-□□□PM (1 pcs)	XW2R-J34GD-C2 (Input side of the unit)	Phillips screw	No
CJ1W-MD263 32 I/O po					XW2Z-□□□PM (1 pcs)	XW2R-J34GD-C4 (Output side of the unit)	Frillips sciew	
	22 I/O pointo				XW2Z-□□□PM (1 pcs)	XW2R-E34GD-C2 (Input side of the unit)	Slotted screw (rise up)	
	oz i/O poilits				XW2Z-□□□PM (1 pcs)	XW2R-E34GD-C4 (Output side of the unit)	Siotied Sciew (lise up)	
					XW2Z-□□□PM (1 pcs)	XW2R-P34GD-C2 (Input side of the unit)	Push-in spring	
					XW2Z-□□□PM (1 pcs)	XW2R-P34GD-C4 (Output side of the unit)	r usii-iii spiiiig	

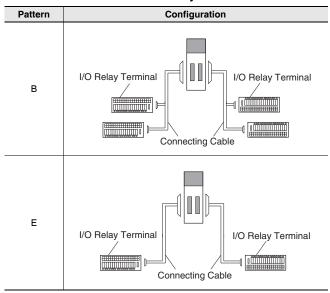
^{*} The box □ is replaced by the cable length.

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Connecting Cable *	Connector-Terminal Block Conversion Unit	Wiring method	Common terminals
CJ1W-MD563 32 I/O p		2 MIL connectors (1 for 32 inputs and 1 for 32 outputs)	_	В	XW2Z-□□□PM (1 pcs)	XW2R-J34GD-C2 (Input side of the unit)	Phillips screw	No
					XW2Z-□□□PM (1 pcs)	XW2R-J34GD-C4 (Output side of the unit)	Frillips sciew	
	20 I/O nainta				XW2Z-□□□PM (1 pcs)	XW2R-E34GD-C2 (Input side of the unit)	Clatted corew (vice up)	
	32 I/O points				XW2Z-□□□PM (1 pcs)	XW2R-E34GD-C4 (Output side of the unit)	Slotted screw (rise up)	
					XW2Z-□□□PM (1 pcs)	XW2R-P34GD-C2 (Input side of the unit)	Push-in spring	
					XW2Z-□□□PM (1 pcs)	XW2R-P34GD-C4 (Output side of the unit)	rusii-iii spfifig	

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

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			Connection	Connecting Cables		I/O Relay Terminals				
Model	I/O capacity	External connectors	Polarity	pattern	Model *1	Quantity required	Model	I/O points	Quantity required	Wiring method
	16 inputs	1 Fujitsu connector (24 p)	NPN/PNP		XW2Z-R□C	1	G70V-SID16P(-1)(-C16) *2	16	1	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
							G70V-SOC16P(-C4)	16		Push-in spring
CJ1W-MD231				E			G7TC-OC16	16		
	16 outputs	1 Fujitsu connector	NPN		XW2Z-R□C	1	G70D-SOC/FOM16	16	1	
	10 outputs	(24 p)	(Sinking)		XWZZ-NLIC	'	G70D-VSOC16/VFOM16	16		Screw terminal
							G70A-ZOC16-3 *4	16		
							G70R-SOC08 *3	8	1	
	40: 1	1 MIL					G70V-SID16P(-1)(-C16) *2	16	1	Push-in spring
	16 inputs	connector (20 p)	NPN/PNP		XW2Z-RO□C	1	G7TC-ID/IA16	16		Screw terminal
CJ1W-MD232				E			G70V-SOC16P-1(-C4)	16	1	Push-in spring
OOTW MBZOZ	10	1 MIL	PNP		XW2Z-RI□C	1	G70A-ZOC16-4 *4	16		Screw terminal
	16 outputs	connector (20 p)	(Sourcing)				G70D-SOC/FOM16-1	16		
					XW2Z-RO□C	1	G7TC-OC16-1	16		
	16 inputs	1 MIL connector (20 p)	ctor NPN/PNP		XW2Z-RO□C	1	G70V-SID16P(-1)(-C16) *2	16	- 1	Push-in spring
							G7TC-ID/IA16	16		Screw terminal
		1 MIL connector (20 p)	NPN (Sinking)		XW2Z-RO□C	1	G70V-SOC16P(-C4)	16	- - 1	Push-in spring
CJ1W-MD233	16 outputs			E			G7TC-OC16	16		Screw terminal
							G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *4	16		
							G70R-SOC08 *3	8		
	32 inputs	1 Fujitsu connector (40 p)	NPN/PNP	В	XW2Z-RI□C-□	1	G70V-SID16P(-1)(-C16) *2	16	- 2	Push-in spring
	02puto		141141141				G7TC-ID/IA16	16		Screw terminal
	32 outputs	1 Fujitsu connector (40 p)	INPN		XW2Z-RO□C-□		G70V-SOC16P(-C4)	16	- 2	Push-in spring
CJ1W-MD261						1	G7TC-OC16	16		Screw terminal
							G70D-SOC/FOM16	16		
							G70D-VSOC16/VFOM16	16		
							G70A-ZOC16-3 *4	16		
							G70R-SOC08 *3	8		

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

^{*2.} Inputs can be either NPN or PNP.

^{*3.} In addition to the G70R-SOC08, 8-point output G7TC-OC08 and G70D-SOC08 models are available.

^{*4.} The G70A-ZOC16-3/4 has I/O terminal sockets. Mounted relays are sold separately. In addition, an G70A-ZOC16-3/4 will be SPDT \times 16 points with G2R relays.