

CJ1W-OC/OA/OD

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.

Output Units

Unit type	Product name	Specifications					No. of words allocated	Current consumption (A)		Model	Standards
		Output type	I/O points	Maximum switching capacity	Commons	External connection		5 V	24 V		
CJ1 Basic I/O Units	Relay Contact Output Units	–	8 outputs	250 VAC/24 VDC, 2 A	Independent contacts	Removable terminal block	1 words	0.09	0.048 max.	CJ1W-OC201	
		–	16 outputs	250 VAC/24 VDC, 2 A	16 points, 1 common	Removable terminal block	1 words	0.11	0.096 max.	CJ1W-OC211	
	Triac Output Unit	–	8 outputs	250 VAC, 0.6 A	8 points, 1 common	Removable terminal block	1 words	0.22	–	CJ1W-OA201* CJ1W-OA201-1	
	Transistor Output Units	Sinking	8 outputs	12 to 24 VDC, 2 A	4 points, 1 common	Removable terminal block	1 words	0.09	–	CJ1W-OD201	
		Sinking	8 outputs	12 to 24 VDC, 0.5 A	8 points, 1 common	Removable terminal block	1 words	0.10	–	CJ1W-OD203	
		Sinking	16 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.10	–	CJ1W-OD211	
		Sinking	16 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	Removable terminal block	1 words	0.15	–	CJ1W-OD213	N, L, CE
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	Fujitsu / OTAX connector	2 words	0.14	–	CJ1W-OD231	UC1, N, L, CE
		Sinking	32 outputs	12 to 24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.14	–	CJ1W-OD233	
		Sinking	32 outputs (High speed)	24 VDC, 0.5 A	16 points, 1 common	MIL connector	2 words	0.22	–	CJ1W-OD234	N, L, CE
		Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	Fujitsu / OTAX connector	4 words	0.17	–	CJ1W-OD261	UC1, N, L, CE
		Sinking	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	–	CJ1W-OD263	
		Sourcing	8 outputs	24 VDC, 2 A Short-circuit protection	4 points, 1 common	Removable terminal block	1 words	0.11	–	CJ1W-OD202	
		Sourcing	8 outputs	24 VDC, 0.5 A Short-circuit protection	8 points, 1 common	Removable terminal block	1 words	0.10	–	CJ1W-OD204	
		Sourcing	16 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	Removable terminal block	1 words	0.10	–	CJ1W-OD212	
		Sourcing	32 outputs	24 VDC, 0.5 A Short-circuit protection	16 points, 1 common	MIL connector	2 words	0.15	–	CJ1W-OD232	
		Sourcing	64 outputs	12 to 24 VDC, 0.3 A	16 points, 1 common	MIL connector	4 words	0.17	–	CJ1W-OD262	

* CJ1W-OA201 is not UC1 cULus (Class I Division 2 hazardous location certification). If cULus (Class I Div 2 hazardous location certification) is required, use CJ1W-OA201-1.

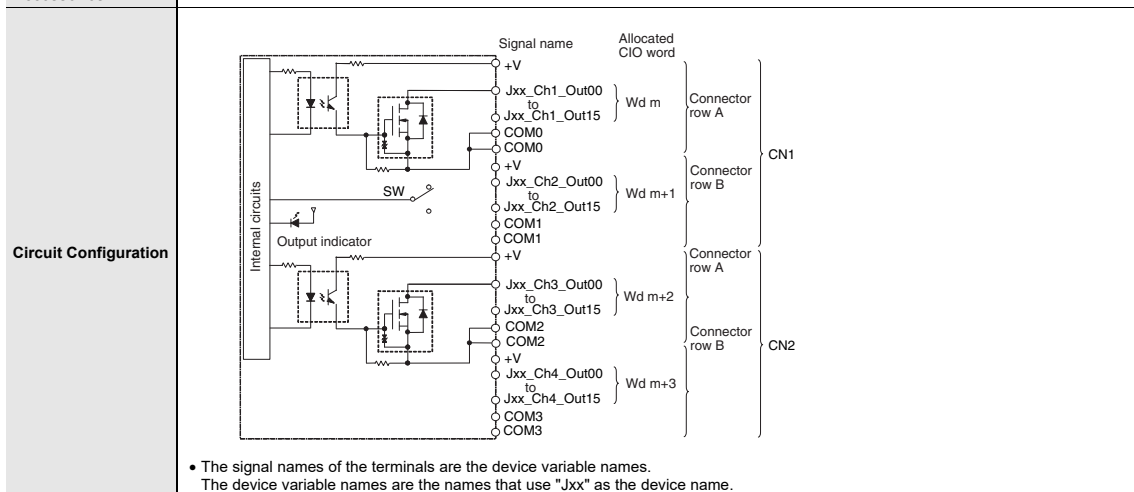
Accessories

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*.

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CJ1W-OD261 Transistor Output Unit (64 Points)

Name	64-point Transistor Output Unit with Fujitsu / OTAX Connectors (Sinking Outputs)
Model	CJ1W-OD261
Rated Voltage	12 to 24 VDC
Operating Load Voltage Range	10.2 to 26.4 VDC
Maximum Load Current	0.3 A/point, 1.6 A/common, 6.4 A/Unit
Maximum Inrush Current	3.0 A/point, 10 ms max.
Leakage Current	0.1 mA max.
Residual Voltage	1.5 V max.
ON Response Time	0.5 ms max.
OFF Response Time	1.0 ms max.
Insulation Resistance	20 MΩ between the 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.
Number of Circuits	64 (16 points/common, 4 circuits)
Internal Current Consumption	5 VDC, 170 mA max.
Fuse	None
External Power Supply	10.2 to 26.4 VDC, 50 mA min.
Weight	110 g max.
Accessories	None



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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-OD231	Transistor Output Unit with Sinking Outputs, 32 outputs	40
CJ1W-OD261	Transistor Output Unit with Sinking Outputs, 64 outputs	

Applicable Cable-side Connectors

Connection	Pins	OMRON set	Fujitsu / OTAX parts
Solder-type	40	C500-CE404	Socket: Fujitsu FCN-361J040-AU Connector cover: Fujitsu FCN-360C040-J2 OTAX N360C040J2
Crimped	40	C500-CE405	Socket: Fujitsu FCN-363J040 OTAX N363J040 Connector cover: Fujitsu FCN-360C040-J2 OTAX N360C040J2 Contacts: Fujitsu FCN-363J-AU OTAX N363JAU
Pressure-welded	40	C500-CE403	Fujitsu FCN-367J040-AU/F

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

Applicable Units

Model	Specifications	Pins
CJ1W-OD232	Transistor Output Unit with sourcing outputs, 32 outputs	40
CJ1W-OD262	Transistor Output Unit with sourcing outputs, 64 outputs	
CJ1W-OD233	Transistor Output Unit with sinking outputs, 32 outputs	
CJ1W-OD234	Transistor Output Unit with sinking outputs, 32 outputs	
CJ1W-OD263	Transistor Output Unit with sinking outputs, 64 outputs	

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-400S2-001
Crimped	—	Crimp Contacts for XG5N *3 XG5W-0232 (loose contacts: 100 pieces) XG5W-0232-R (reel contacts: 10,000 pieces)	HU-111S

*1. Socket and Stain Relief set.

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

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

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

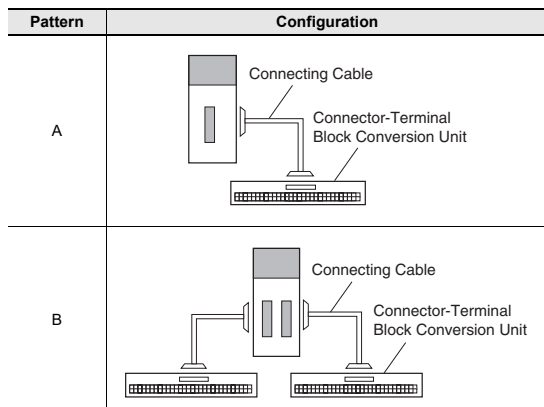
Tools for Crimped Connectors (OMRON)

Product Name	Model
Manual Crimping Tool	XY2B-7007

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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-OD231	32 outputs	1 Fujitsu / OTAX connector	NPN	A	XW2Z-□□□B	XW2K-40G-032B	Push-In Plus	No
						XW2K-40G-032B-OUT	Push-In Plus	Yes
						XW2R-J34GD-C3	Phillips screw	No
						XW2R-E34GD-C3	Slotted screw (rise up)	No
CJ1W-OD232	32 outputs	1 MIL connector	PNP	A	XW2Z-□□□K	XW2K-40G-032C	Push-In Plus	No
						XW2K-40G-032C-OUT	Push-In Plus	Yes
						XW2R-J34GD-C4	Phillips screw	No
						XW2R-E34GD-C4	Slotted screw (rise up)	No
CJ1W-OD233	32 outputs	1 MIL connector	NPN	A	XW2Z-□□□K	XW2K-40G-032C	Push-In Plus	No
						XW2K-40G-032C-OUT	Push-In Plus	Yes
						XW2R-J34GD-C4	Phillips screw	No
						XW2R-E34GD-C4	Slotted screw (rise up)	No
CJ1W-OD234	32 outputs	1 MIL connector	NPN	A	XW2Z-□□□K	XW2K-40G-032C	Push-In Plus	No
						XW2K-40G-032C-OUT	Push-In Plus	Yes
						XW2R-J34GD-C4	Phillips screw	No
						XW2R-E34GD-C4	Slotted screw (rise up)	No
CJ1W-OD261	64 outputs	2 Fujitsu / OTAX connectors	NPN	B	XW2Z-□□□B (2 pcs)	XW2K-40G-032B (2 pcs)	Push-In Plus	No
						XW2K-40G-032B-OUT (2 pcs)	Push-In Plus	No
						XW2R-J34GD-C3 (2 pcs)	Phillips screw	Yes
						XW2R-E34GD-C3 (2 pcs)	Slotted screw (rise up)	No
CJ1W-OD262	64 outputs	2 MIL connectors	PNP	B	XW2Z-□□□K (2 pcs)	XW2K-40G-032C (2 pcs)	Push-In Plus	No
						XW2K-40G-032C-OUT (2 pcs)	Push-In Plus	No
						XW2R-J34GD-C4 (2 pcs)	Phillips screw	Yes
						XW2R-E34GD-C4 (2 pcs)	Slotted screw (rise up)	No
CJ1W-OD263	64 outputs	2 MIL connectors	NPN	B	XW2Z-□□□K (2 pcs)	XW2K-40G-032C (2 pcs)	Push-In Plus	No
						XW2K-40G-032C-OUT (2 pcs)	Push-In Plus	Yes
						XW2R-J34GD-C4 (2 pcs)	Phillips screw	No
						XW2R-E34GD-C4 (2 pcs)	Slotted screw (rise up)	No

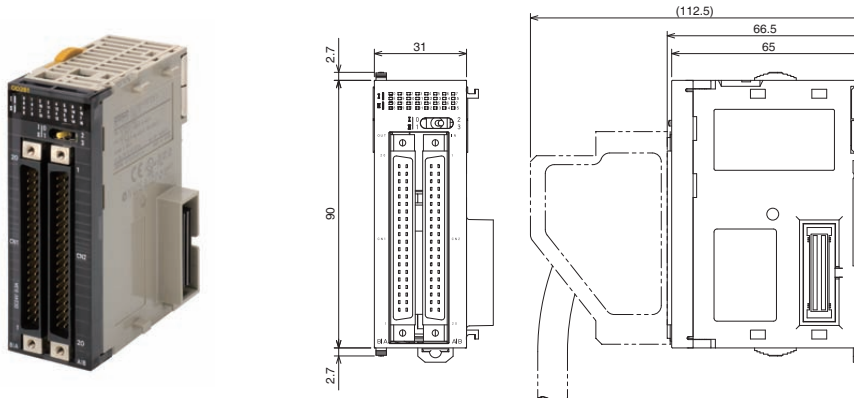
* The box □ is replaced by the cable length.

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

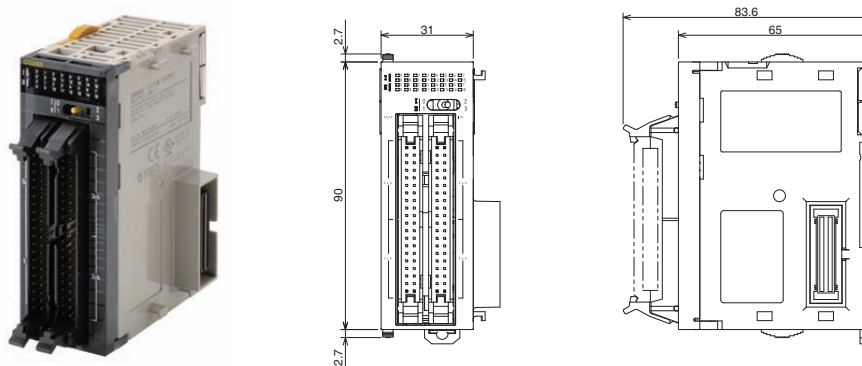
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64-point Units (Output Units)

With Fujitsu / OTAX-Compatible Connector (40-pin × 2)
CJ1W-OD261



With MIL Connector (40-pin × 2)
CJ1W-OD262 / OD263



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 <i>Software User's Manual</i> (W473).
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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PRODUCT: CJ1W-OD261 / CJ-Series 64-Point Sinking Transistor Output Unit

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