CJ-series I/O Control Unit / I/O Interface Unit

CJ1W-IC/II

CSM_CJ1W-IC/II_DS_E_2_2

Expand CJ/NJ-series with These Units

- To expand a CJ/NJ-series Controller, connect an I/O Control Unit to the CPU Rack, and I/O Interface Unit to the Expansion Rack, and connect the two Units with I/O Expansion Cable.

CJ1W-IC101

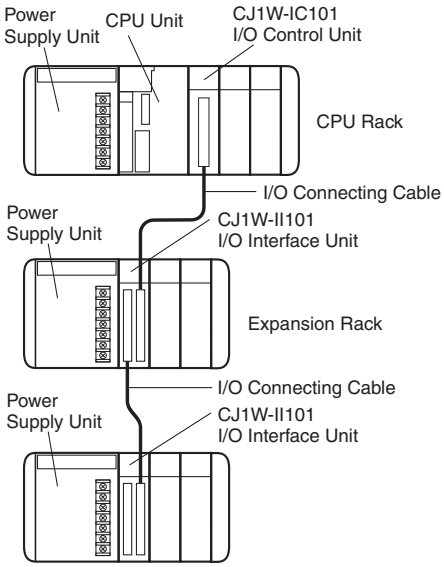
CJ1W-II101

Features

- Rack-mountable Units enable expanding Controller capacity even when space is limited.
- Easy-to-use connectors enable quick expansion without any settings.

System Configuration

The I/O Control Unit is connected directly to the CPU Unit. If it is not immediately to the right of the CPU Unit, correct operation may not be possible. The I/O Interface Unit is connected directly to the Power Supply Unit. If it is not immediately to the right of the Power Supply Unit, correct operation may not be possible.



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.

I/O Control Unit (Mounted on CPU Rack when Connecting Expansion Racks)

Product name	Specifications	Current consumption (A)		Model	Standards
		5 V	24 V		
CJ-series I/O Control Unit	Mount one I/O Control Unit on the CPU Rack when connecting one or more Expansion Racks. Connecting Cable: CS1W-CN□□3 Expansion Connecting Cable Connected Unit: CJ1W-II101 I/O Interface Unit Mount to the right of the CPU Unit.	0.02	–	**CJ1W-IC101**	UC1, N, L, CE

Note: Mounting the I/O Control Unit in any other location may cause faulty operation.

I/O Interface Unit (Mounted on Expansion Rack)

Product Name	Specifications	Current consumption (A)		Model	Standards
		5 V	24 V		
CJ-series I/O Interface Unit	One I/O Interface Unit is required on each Expansion Rack. Connecting Cable: CS1W-CN□□3 Expansion Connecting Cable Mount to the right of the Power Supply Unit.	0.13	–	**CJ1W-II101**	UC1, N, L, CE

Note: Mounting the I/O Interface Unit in any other location may cause faulty operation.

Accessories

CJ1W-IC101 I/O Control Unit

There is no accessory for the I/O Control Unit Unit.

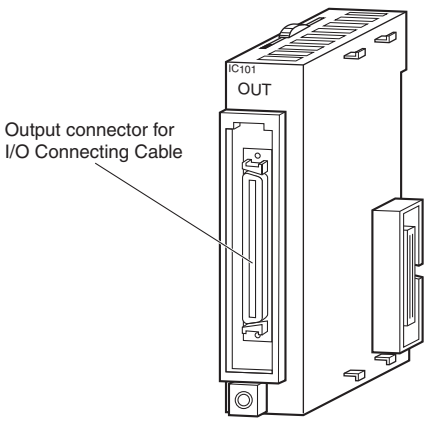
CJ1W-II101 I/O Interface Unit

The following accessories come with I/O Interface Unit:

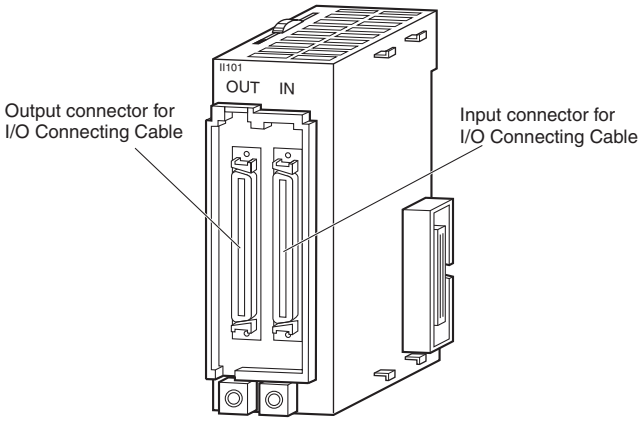
Item	Specification
End Cover	CJ1W-TER01 (necessary to be mouned at the right end of CPU Rack)
End Plate	PFP-M (2 pcs)

External Interface

I/O Control Unit
CJ1W-IC101



I/O Interface Unit
CJ1W-II101



Connecting Expansion Racks

CS/CJ-series I/O Connecting Cables are used to connect the CPU Rack and Expansion Racks.

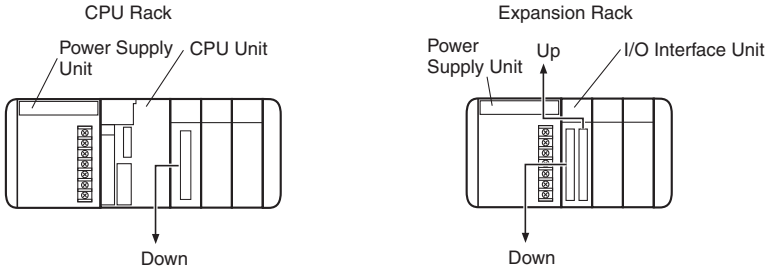
CS/CJ-series I/O Connecting Cables

The CS/CJ-series I/O Connecting Cables have connectors with a simple lock mechanism are used to connect the CPU Rack to an Expansion Rack or to connect two Expansion Racks.

CS/CJ-series I/O Connecting Cables

Model number	Cable length
CS1W-CN313	0.3 m
CS1W-CN713	0.7 m
CS1W-CN223	2 m
CS1W-CN323	3 m
CS1W-CN523	5 m
CS1W-CN133	10 m
CS1W-CN133-B2	12 m

- Install the Racks and select I/O Connecting Cables so that the total length of all I/O Connecting Cables does not exceed 12 m.
- The following diagram shows where each I/O Connecting Cable must be connected on each Rack. The Rack will not operate if the cables aren't connected properly. (The "up" direction is towards the CPU Unit and "down" is away from the CPU Unit.)



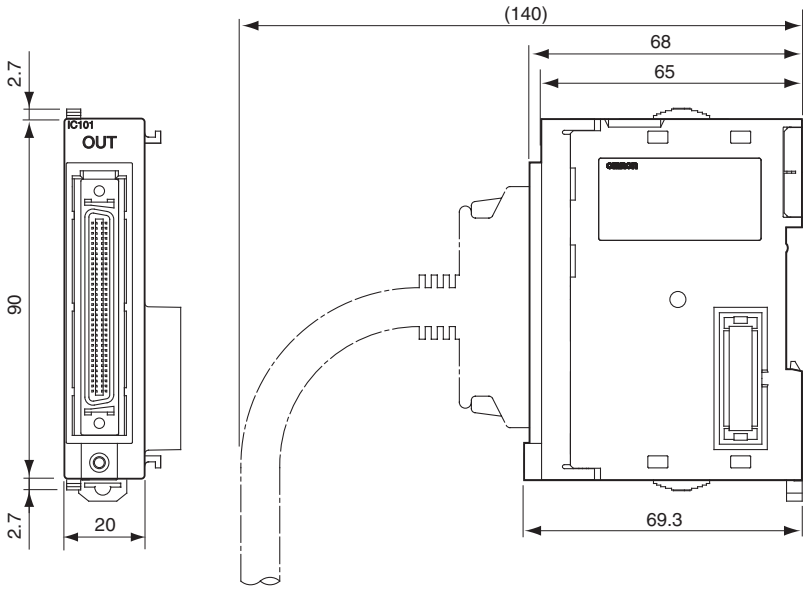
Usage Precautions

- CJ1W-IC101 I/O Control Unit is connected directly to the CPU Unit. CJ1W-II101 I/O Interface Unit is connected directly to the Power Supply Unit.
- The number of Expansion Racks that can be connected depends on the CPU Unit. Refer to the SYSMAC NJ-series CPU Unit Hardware User's Manual (Cat.No.W500), CJ Series Programmable Controllers Operation Manual (Cat. No. W393) or CJ-series CJ2 CPU Unit Hardware User's Manual (Cat. No. W472) for details.
- Use a CS-Series I/O Connecting Cable (CS1W-CN□□3) to connect an Expansion Rack.
- Install the Racks and select I/O Connecting Cables so that the total length of all I/O Connecting Cables does not exceed 12m.
- When using an I/O Connecting Cable with a locking connector, be sure that the connector is firmly locked in place before using it.
- Attached the enclosed cover to the I/O Connecting Cable connector on the I/O Interface Unit when it is not being used to protect it from dust.

Dimensions

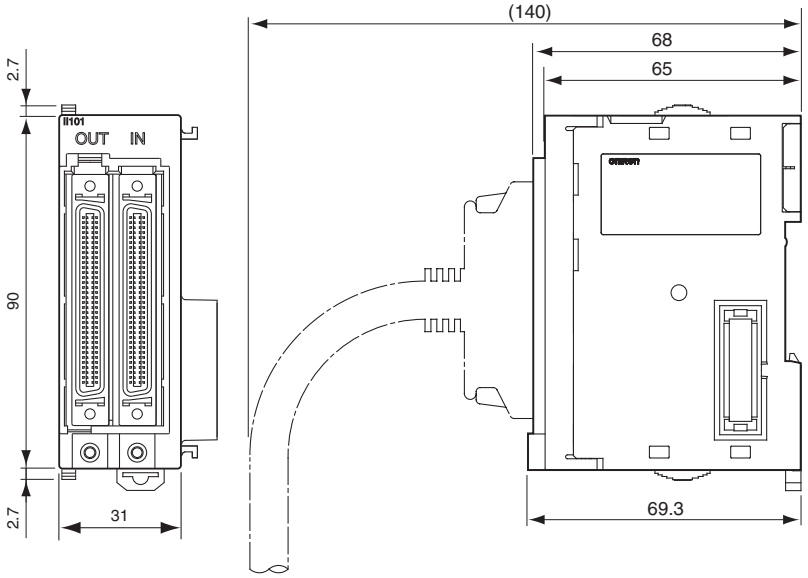
(Unit: mm)

I/O Control Unit
CJ1W-IC101



Note: Weight : 70 g max.

I/O Interface Unit
CJ1W-II101



Note: Weight : 130 g max. (including End Cover)

Related Manuals

Name	Cat. No.	Contents
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.
CJ-series CJ2 CPU Unit Hardware User's Manual CJ2H-CPU6□-EIP CJ2H-CPU6□	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).
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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