CJ-series Interrupt Input Units

CJ1W-INT01

CSM_CJ1W-INT01_DS_E_2_2

High-speed Starting of I/O Interrupt Tasks. Use Up to Two Units for a Total of Up to 32 Interrupt Inputs.

 Receive inputs to start I/O interrupt tasks. When the Interrupt Input Unit receives an input, the CPU Unit will interrupt execution of the cyclic tasks in the normal program and execute an I/O interrupt task.



CJ1W-INT01

Features

- High-speed ON response of 0.05 ms
- Use up to 32 interrupt inputs with up to two Units per CPU Unit.
- Applicable with both NPN and PNP output devices. Polarity selection is not required. *
- * The same polarity is used for the same common.

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.

Interrupt Input Units

	Product	Specifications						No. of words	Current consumption (A)		Madal	04
Unit type	name	I/O points	Input voltage current	Commons	Input pulse width conditions	Max. Units mountable per Unit	External connection	allocated	5 V	24 V	Model	Standards
CJ1 Basic I/O Units	Interrupt Input Unit	16 inputs	24 VDC, 7 mA	16 points, 1 common	ON time: 0.05 ms max. OFF time: 0.5 ms max.	2	Removable terminal block	1 word	0.08	1	CJ1W-INT01	UC1, N, L, CE

Note: 1. Can be used only on CPU Racks, and not on Expansion Racks.

- The locations where the Units can be mounted depend on the CPU Rack and the CPU Unit model. CJ2H-CPU6□-EIP: From the slot next to the CPU Unit until the fourth slot.
 - CJ1G, CJ1H: From the slot next to the CPU Unit until the fifth slot.
 - CJ1M: From the slot next to the CPU Unit until the third slot. (Final order entry date for CJ1M: The end of March, 2021)
- 3. With the SYSMAC NJ-series Controllers, Interrupt Input Units can be used as normal Basic Input Units. They cannot be used to start I/O interrupt tasks.

Accessories

There is no accessory for the CJ series Interrupt Input Units.

Mountable Racks

	NJ sy	rstem	CJ system (CJ1, CJ2)			CP1H system	NSJ system		
Molde	CPU Rack	Expansion Rack	CJ1-CPU Rack	CPU Units other than left			NSJ Controller Expansion Backplane		
CJ1W-INT01	2 Units *1*4	Not supported *3	Not supported	2 Units *2	Not supported *3	Not supported	Not supported	Not supported *3	

^{*1.} The Interrupt Input Unit can be mounted in slots 0 to 4 on the CJ1-CPU Rack. An Incorrect Unit/Expansion Rack Connection error will occur if an Interrupt Input Unit is mounted to slot 5 or higher.

- *2. Connectable slot position changes with the CPU Unit.
 - CJ1M-CPU□□: Slot No.0 to 2
 - CJ2H-CPU□□-EIP: Slot No.0 to 3
 - CPU Unit other than abobe: Slot No.0 to 4
 - If the Unit is mounted to the slot other than abobe, I/O setting error will occur. (Final order entry date for CJ1M: The end of March, 2021)
- *3. An I/O setting error will occur if an Interrupt Input Unit is mounted to an Expansion Rack.
- *4. Interrupt Input Units can be used as normal Basic Input Units. They cannot be used to start I/O interrupt tasks.

Specifications

CJ1W-INT01 Interrupt Input Unit (16 Points)

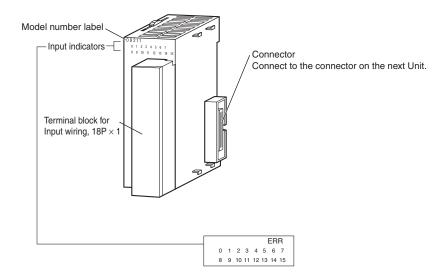
	Trupt input onit (10 Foints)								
Name	16-point Interrupt Input Unit with Terminal Block								
Model	CJ1W-INT01								
Rated Input Voltage	24 VDC								
Rated Input Voltage Range	20.4 to 26.4 VDC								
Input Impedance	3.3 kΩ								
Input Current	7 mA typical (at 24 VDC)								
ON Voltage/ON Current	14.4 VDC min./3 mA min.								
OFF Voltage/OFF Current	5 VDC max./1 mA max.								
ON Response Time	0.05 ms max.								
OFF Response Time	0.5 ms max.								
Number of Circuits	16 (16 points/common, 1 circuit)								
Number of Simultaneously ON Points	100% (16 points/common) simultaneously ON (24 VDC)								
Insulation Resistance	20 M Ω between external terminals and GR terminal (at 100 VDC)								
DielectrQic Strength	1,000 VAC between external terminals and GR terminal for 1 minute at a leakage current of 10 mA max.								
Internal Current Consumption	80 mA max.								
Weight	110 g max.								
Accessories	None								
Circuit Configuration	 Up to two Interrupt Input Units can be mounted to the CPU Rack. They must be connected as one of the five Units immediately next to the CPU Unit. If an Interrupt Input Unit is connected in any other position, an Incorrect Unit/Expansion Rack Connection error will occur. Set the pulse width of signals input to the Interrupt Input Unit so they satisfy the following conditions. 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 Connector pin Name Jxx_Ch1_In00 A0 B0 Jxx_Ch1_In01 Jxx_Ch1_In04 A2 B1 Jxx_Ch1_In05 Jxx_Ch1_In08 A3 B3 Jxx_Ch1_In07 Jxx_Ch1_In10 A5 B5 Jxx_Ch1_In109 Jxx_Ch1_In10 A5 B5 Jxx_Ch1_In11 COM A8 B7 COM A8 B8 COM B7 COM B7 COM A8 B8 COM B7 COM B7 COM A8 B8 COM B7 COM B7 COM B8 COM B7 COM B7 COM B8 COM B8 COM B7 COM B7 COM B8 COM B8 COM B7 COM B8 COM B7 COM B8 COM B8 COM B7 COM B8 COM B8 COM B7 COM B8 COM B8 COM B8 COM B7 COM B8 COM BB COM								

Note: With NJ-series Controllers, Interrupt Input Units can be used as normal Basic Input Units.

They cannot be used to start I/O interrupt tasks.

^{*} 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.

External Interface



Wiring 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)			

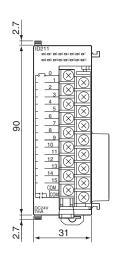
Crimp terminals

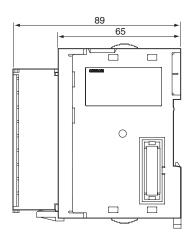
Use crimp terminals (M3) having the dimensions shown below.



Dimensions (Unit: mm)







Related Manuals

Name	Cat. No.	Contents				
CJ-series CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□ CJ2 CPU Unit Hardware User's Manual	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).				
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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