SYSMAC Option RS-422A Converter CJ1W-CIF11

The RS-232C port of the SYSMAC series can be changed into RS-422A/485 port.

• The CJ1W-CIF11 RS-422A Converter connects directly to a CS/CJ-series RS-232C port and converts RS-232C to RS-422A/485.



CJ1W-CIF11

Features

- You can use RS-422A/RS-485 by connecting the converter to built-in RS-232C port of the CS/CJ series and the RS-232C connector of the Serial Communications Units (D-Sub,9-pin).
- Up to 9 nodes can be linked via built-in RS-232C ports of the CJ1M CPU units, using Serial PLC Links function.

Ordering Information

Name	Specifications	Model	Standards	
RS-422A Converter		CJ1W-CIF11		
	Converts RS-233C to RS-422A/RS-485.		UC1, N, L, CE	

International Standards

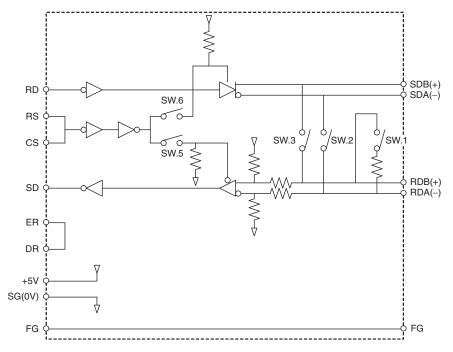
- The standards indicated in the "Standards" column are those current for UL, CSA, cULus, cUL, NK, and Lloyd standards and EC Directives as of the end of September 2008. (The standards are abbreviated as follows: U: UL, U1: UL Class I Division 2 Products for Hazardous Locations, C: CSA, US: cULus Class I Division 2 Products for Hazardous Locations, CU: cUL, N: NK, L: Lloyd, and CE: EC Directives.
- Ask your OMRON representatives for the conditions under which the standards were met.

Specifications

General Specifications

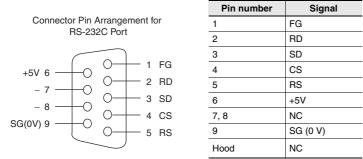
Item	Specification		
Dimensions	$18.2 \times 34.0 \times 38.8 \text{ mm} (W \times H \times D)$		
Weight	20 g max.		
Ambient operating temperature	0 to 55°C		
Ambient storage temperature	-20 to 75°C		
Ambient operating humidity	10% to 90% (with no condensation)		
Rated power supply voltage	5 V		
Current consumption	40 mA max.	(Supplied from pin 6 of the RS-232C connector.)	
Operating atmosphere	No corrosive gases		
Vibration resistance	Same as SYSMAC CS/CJ Series.		
Shock resistance	Same as SYSMAC CS/CJ Series.		
Isolation method	Not isolated		
Maximum communications distance	50 m		

Block Diagram



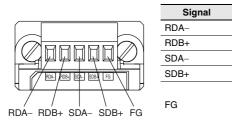
External Interface

RS-232C Connector



Note: The hood will have the same electrical potential as the connector on the other end of the cable.

RS-422A/485 Terminal Block

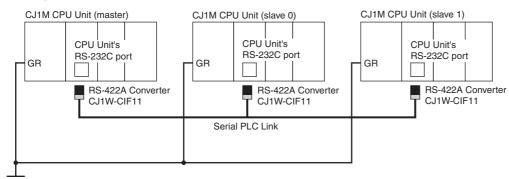


Wiring the RS-422A/485 Terminal Block

- Use either two-wire or four-wire shielded cable.
- Recommended cable: CO-HC-ESV-3P×7/0.2 (Hirakawa Hewtech)
- Connect the shield wire at both ends of the cable carrying RS-422A/485 signals to ground, and ground the ground terminal on the Power Supply Unit of the CPU or Expansion Rack to 100 Ω max.

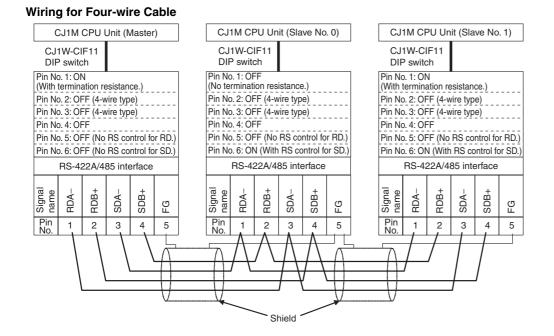
CJ1W-CIF11

Wiring Example (CJ1M CPU Units Connected via Serial PLC Link)

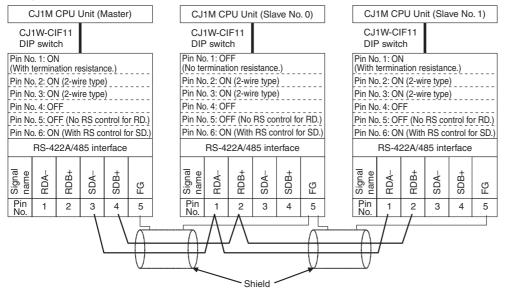


Note: 1. Connect the shield wire at both ends of the cable carrying RS-422A/485 signals to ground, and ground the ground terminal on the Power Supply Unit of the CPU or Expansion Rack to 100 Ω max.

2. The CJ1W-CIF11 is not insulated, so the total transmission distance for the whole transmission path is 50 m max. If the total transmission distance is greater than 50 m, use the insulated NT-AL001, and do not use the CJ1W-CIF11. If only the NT-AL001 is used, the total transmission distance for the whole transmission path is 500 m max.



Wiring for Two-wire Cable



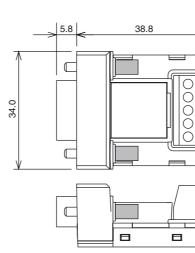
CJ1W-CIF11

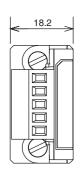
Dimensions

CJ1W-CIF11

(Unit: mm)







Related Manual

Name	Cat. No.	Contents
SYSMAC CJ Series CJ1H-CPU H-R, CJ1G/H-CPU H, CJ1G-CPU P, CJ1G-CPU C, 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.

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