SYSMAC CJ-series Programmable Controllers

Instruction Manual for Position Control Unit

0967730-0B

Precautions for Compliance with UL Standards and CSA Standards

Notice to Users of the CJ1W-NC214, -NC414, -NC234, -NC434 in the USA and Canada

Please use the following installation information instead of the general information in the instruction manuals in order to use the product under certified conditions of UL and CSA when the product is installed in the USA or Canada. These conditions are required by NFPA 70, National Electrical Code in the USA and the Canadian Electrical Code, Part I in Canada and may vary from information given in the product manuals or safety precautions.

- I/O Wiring

  Use the Terminal Block and the Connector Harness for the external wirings.

  Terminal Block: XW2B-50G4 (For CN1, and CN 2 of NC414, 434)
  XW2B-20G4 (For CN2 of NC214, 234, for CN3, CN4 of NC414, 434)

  Connector Harness: XW2Z-□□□Y (For XW2B-50G4)
  XW2Z-□□□X (For XW2B-20G4) □□□: cable length

  Wiring harness XW2Z-□□□X and XW2Z-□□□Y are for internal use only.
  Use the Class 2 Power Supply for the I/O power.

- Environment

  Rated 55°C surrounding air temperature.

- Rated Voltage and Current

Input	24V DC, 4.9 mA /P, 10 points /axis × 2 or 4 axes
Input	3V DC, 7mA /P, 2 points
Line Receiver	3V DC, 3 points /axis × 2 or 4 axes
Output	24V DC, 100mA /P, 5 points /axis × 2 or 4 axes
TTL Level Output	5V DC, 10mA /P, 1point /axis × 2 or 4 axes
Pulse Output	<Open Collector Output Type (NC214, NC414)> 24V DC, 30mA /P, 1point /axis × 2 or 4 axes 24V DC, 16mA /P (W/ LIMIT RES.), 1 point /axis × 2 or 4 axes <Line Driver Output Type (NC234, NC434)> 3V DC, 2 points /axis × 2 or 4 axes

- Compliance with ANSI/ISA 12.12.01 Class I Division 2

  Input and output wiring must be in accordance with Class I, Div. 2 wiring methods and in accordance with the authority having jurisdiction.

1. This equipment is suitable for use in Class I, Div.2, Group A, B, C, D or Non-Hazardous Locations Only.
2. WARNING: Explosion Hazard-Substitution of Components may Impair Suitability for Class I, Div.2.
3. WARNING: Explosion Hazard. Do not Disconnect Equipment Unless Power Has Been Switched off or the Area Is Known to Be Non-Hazardous.
4. This device is open-type and is required to be installed in an enclosure suitable for the environment and can only be accessed with the use of a tool or key.

1. Cet equipement convient a l'utilisation dans des emplacements de Classe I, Division 2, Groupes A, B, C, D, ou ne convient qu'a l'utilisation dans des endroits non dangereux.
2. AVERTISSEMENT - Risque d'explosion - La substitution de composants peut rendre ce materiel inacceptable pour les emplacements de Classe I, Division 2
3. AVERTISSEMENT - Risque d'explosion - Avant de debrancher l'equipement, couper le courant ou s'assurer que l'emplacement est designe non dangereux.
4. Ce dispositif est de type ouvert et doit etre installe dans un coffret adapte a l'environnement et auquel on ne pourra acceder uniquement au moyen d'un outil ou d'une cle.

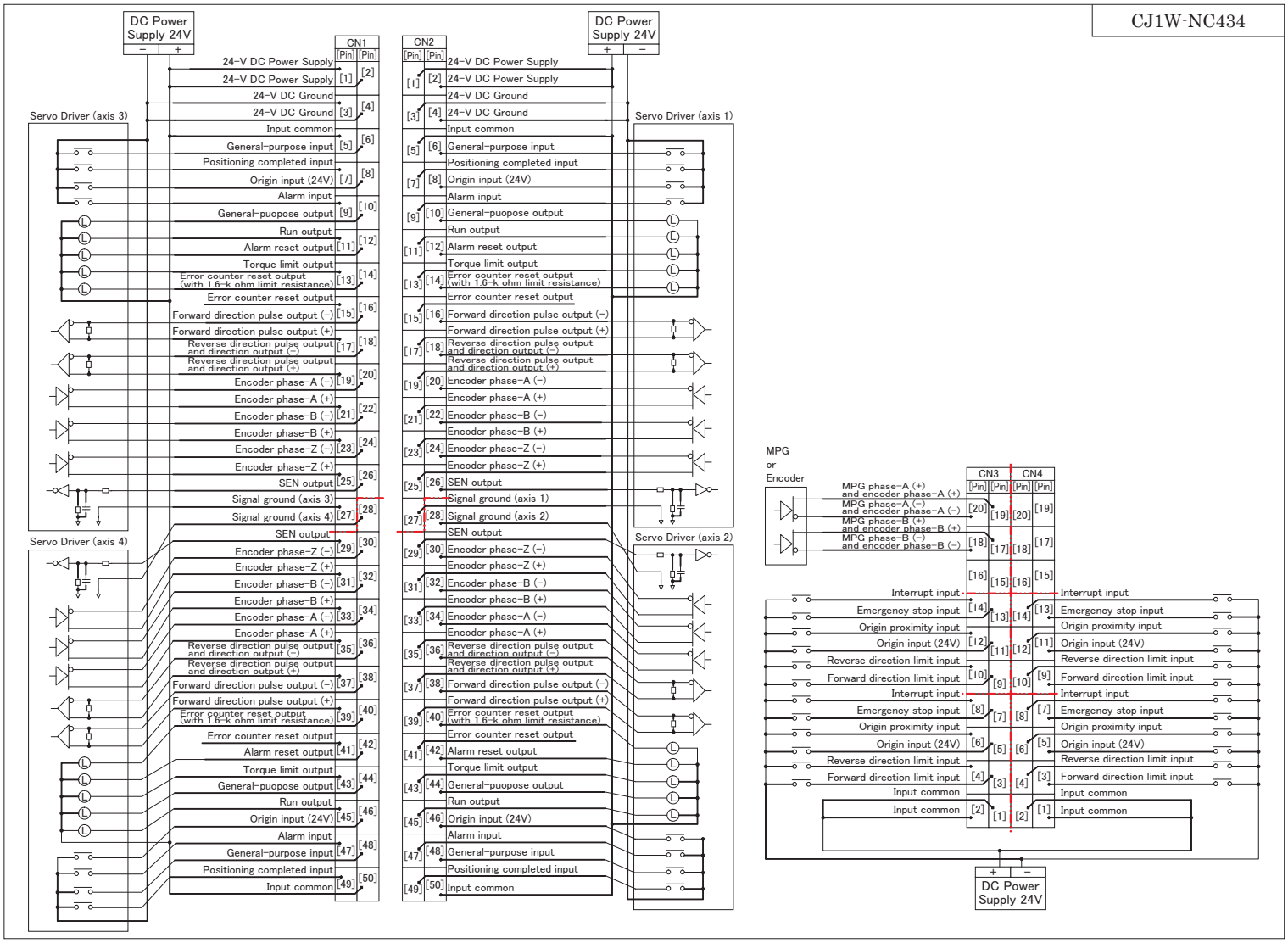
I/O Wiring Diagram

These models have two or three sets of I/O connectors that are isolated from other sets. Each set of I/O connectors shall be connected to the same source but may be connected to different sources than other sets as follows.

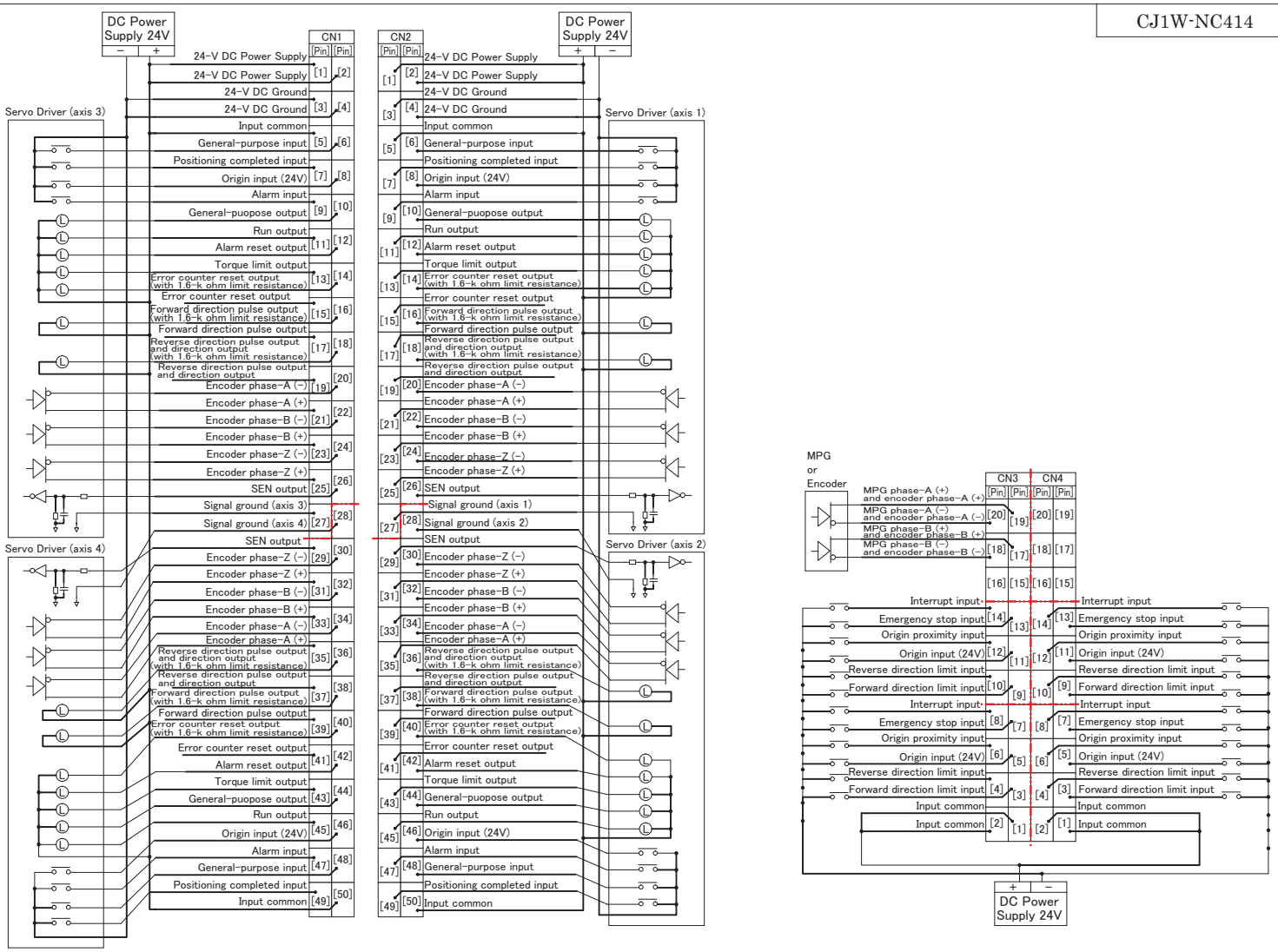
Type	Required I/O power source
CJ1W-NC214, NC234	One for CN1 (Controller for axis 1 and 2) One for CN2 (General Inputs)

Type	Required I/O power source
CJ1W-NC414, NC434	One for CN1 (Controller for axis 3 and 4) One for CN2 (Controller for axis 1 and 2) One for CN3, 4 (General Inputs)

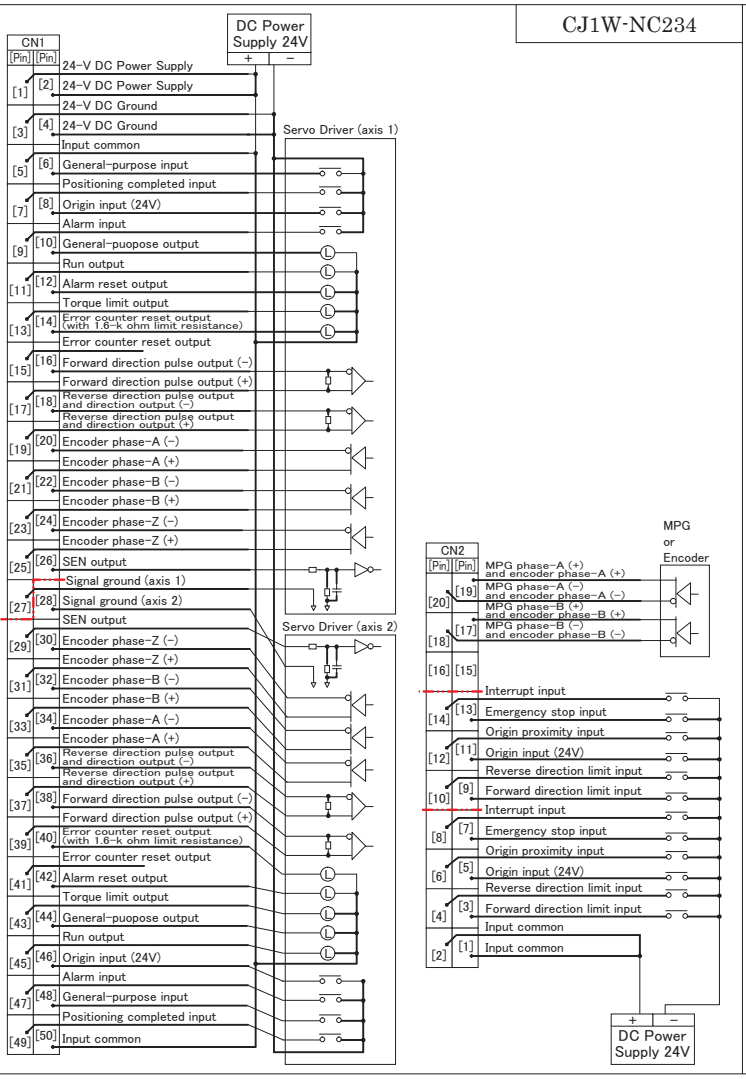
CJ1W-NC434



CJ1W-NC414



CJ1W-NC234



CJ1W-NC214