Do not touch the NX bus connector

NX bus connector

SYSMAC NX1P2 and NX1W series
INSTRUCTION SHEET
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Precautions for Compliance with UL/CSA Standards and EU Directives
Notice to Users of SYSMAC NX1P2 and NX1W series in USA, Canada, and Europe.
This manual must be consulted in all cases in order to find out the nature of the potential HAZARDS and any actions which have to be taken to avoid them. If the equipment is used in a manner not specified by the manufacturer, the protection by the equipment may be impaired. This product is defined as an in-panel device and must be installed within a control panel.

- Power Supply Voltage: DC24V (85% to 120%)
- Surrounding Air Temperature: 0 to 55 °C (avoid freezing or condensation)
- Surrounding Air Humidity: 10% to 95%RH
- Altitude: 2000m max.
- Installation Environment: Pollution Degree2
- Temp. code: T4A
- Indoor Use Only

- 24-V DC power source
The external power supplies must be DC power supplies that satisfy the SELV requirements.
- POWER consumption : 24V DC, 0.86A
- NX UNIT POWER OUTPUT : 10W, 5.8V

I/O specifications
NX1P2 series
INPUT specification
NX1P2-0024DT(C) 24V DC, 5.8mA 14 POINTS
NX1P2-1C40DT(C) 24V DC, 5.8mA 16 POINTS/ 5.3mA 8 POINTS

OUTPUT specification
NX1P2-0024DT 12-24V DC(GEN),(J(PD.)) 0.3A/P, 2.4AA/C, 2.4AU/10 POINTS, PNP
NX1P2-0024DT1 24V DC(GEN),(J(PD.)) 0.3A/P, 2.4AA/C, 2.4AU/10 POINTS, PNP
NX1P2-1C40DT 12-24V DC(GEN),(J(PD.)) 0.3A/P, 1.8AA/C, 3.6AU/10 POINTS, PNP
NX1P2-1C40DT1 24V DC(GEN),(J(PD.)) 0.3A/P, 1.8AA/C, 3.6AU/10 POINTS, PNP

- 24V DC power source
The external power supplies must be DC power supplies that satisfy the SELV requirements.
- POWER consumption : 24V DC, 0.86A
- NX UNIT POWER OUTPUT : 10W, 5.8V

I/O specifications
NX1W series
INPUT specification
NX1W-CIF01 -
NX1W-CIF11 -
NX1W-CIF12 -
NX1W-ADD21 Input: 0 to 10V, 0 to 20mA, 2 points
NX1W-ADD22V Input: 0 to 10V, 0 to 20mA, 2 points, Output: 0 to 10V, 2 points

- Cable for I/O terminal
Please select the cable by which rated temperature is 80 °C or above.

- Directions for installation
Vertical only.

- Cleaning
Do not use paint thinner or similar chemical to clean with. Use a dry cloth.

- Enclosure type
You must use this product in a control board. Enclosure type: Type 1 or more.

- Battery (optional)
Mount the CJ1W-BAT01 Battery (sold separately) to an NX1P2 series CPU unit if clock data need to be retained after a power interruption.
- Installing the battery.
1. Remove the battery cover on CPU unit and carefully draw out the Battery. Connect the new Battery, place it into the compartment, and close the cover.
2. Replacing the battery.
1. Turn OFF the power supply to the NX1P2 series CPU unit. If the CPU unit has not been ON, turn it ON at least for 5 minutes and then turn it OFF.
2. Remove the battery cover on CPU unit and carefully draw out the Battery. Remove the Battery connector. Connect the new Battery, place it into the compartment, and close the cover.

Marking
Functional Earth Terminal

- Compliance with Class I Division 2 Hazardous Location:
- 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, Division 2, Groups A, B, C, D or Non-Hazardous Locations Only.
2. WARNING: Explosion Hazard – Do Not Disconnect Equipment Unless Power Has Been Switched Off or the Area Is Known to Be Non-Hazardous.
3. 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 APPAREIL EST UTILISABLE DANS LES EMPLACEMENTS DE CLASSE I, DIVISION 2, GROUPES A, B, C, D, OU DANS LES EMPLACEMENTS NON DANGEREUX SEULMENT.
2. AVERTISSEMENT : MIS EN DANGER DE DETECTION DE L’APPAREIL. SEULAR LA PRISE DE COURANT OU S’ASSURER QUE L’EMPLACEMENT EST DESIGNE NON DANGEREUX.
3. CET DISPOSITIF EST DE TYPE OUVERT ET DOIT ETRE INSTALLER DANS UN COFFRET ADAPTE A L’ENVIRONNEMENT ET AUQUEL ON NE POURRA ACCEDER UNIQUEMENT AU MOYEN D’OUTIL OU D’UNE CLE.

Compliance to UL Standards and CSA Standards

For KC standard only
A사 기기usal을 발광판등이페어
이 기기는 내용물(A), 전자파장대기로서 판매자 또는 사용자는 이 절을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

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Note: Specifications subject to change without notice.
Printed in China.
**I/O Wiring Diagram**

**NX1P2-9024DT**
- 24-V DC input (14 Points)
- Transistor (NPN) Output (10 Points)

**Upper Terminal Block**

**Lower Terminal Block**

**NX1P2-9024DT1**
- 24-V DC input (14 Points)
- Transistor (PNP) Output (10 Points)

**Upper Terminal Block**

**Lower Terminal Block**

**NX1P2-1C40DT**
- 24-V DC input (24 Points)
- Transistor (NPN) Output (16 Points)

**Upper Terminal Block**

**Lower Terminal Block**

**NX1P2-1C40DT1**
- 24-V DC input (24 Points)
- Transistor (PNP) Output (16 Points)

**Upper Terminal Block**

**Lower Terminal Block**

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*Note: The wiring of the Functional Earth Terminal*

Push AWG14 solid wire into functional earth area, and sway it both A and B side slightly until top of wire goes into fixed hole.

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**Option board**

**NX1W-CIF01**

**NX1W-CIF1C3**

**NX1W-ADB21**

**NX1W-OAB21V**

**NX1W-MAB221**