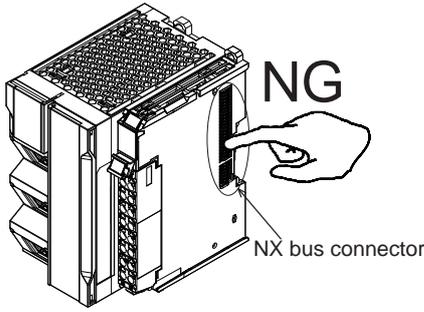


Do not touch the NX bus connector



5379004-0C

OMRON

SYSMAC NX102 series INSTRUCTION SHEET

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Precautions for Compliance with UL/ CSA Standards and EU Directives

Notice to Users of SYSMAC NX102 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.

● Definition of Precautionary Information



Caution

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

● Environment

| | |
|---------------------------|--|
| Power Supply Voltage: | DC24V (85% to 120%) |
| Ambient Temperature: | 0 to 55 °C (Avoid freezing or condensation) |
| Humidity: | 10% to 95%RH(with no condensation) |
| Altitude: | 2000m max. |
| Installation Environment: | Pollution Degree2 |
| Temp. code | T4A |
| Terminal temperature: | 80 °C |
| Indoor Use Only | |

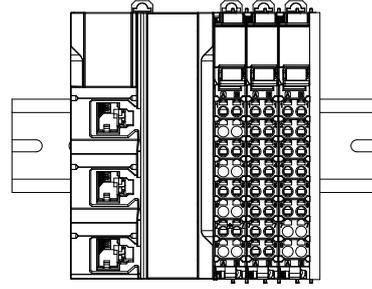
● 24-V DC power source

The external power supplies must be DC power supplies that satisfy the SELV requirements.

Power consumption : 24V DC, 0.83 A
NX UNIT POWER OUTPUT :10W, 5.8V

● Directions for installation

Vertical only.



● Cable

Please select the cable by which rated temperature is 80°C or above.

● 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.

● Marking

: Functional Earth Terminal

● Battery (optional)

The battery must be installed and replaced by trained service technician. Always place a trained service technician in charge of battery installation and replacement.

Be sure that the power supply to the NX102 series CPU unit is turned OFF before installing and replacing the battery.

Be sure that the area is free of ignitable concentrations of flammable materials and the battery connector is properly locked into battery connector socket half when installing and replacing the battery.

The unit must mounted in an enclosure that only accessible by the use of a tool after the installation/replacement activity of battery.

Mount the CJ1W-BAT01 Battery (sold separately) to an NX102 series CPU unit if clock data need to be retained after a power interruption.

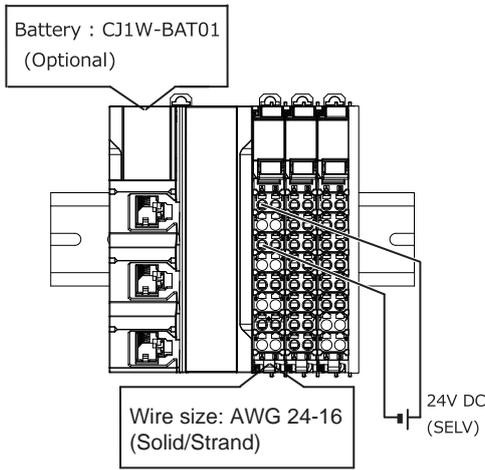
➤ Installing the battery.

1. Remove the battery cover on CPU unit. Connect the new Battery, place it into the compartment, and close the cover.

➤ Replacing the battery.

1. Turn OFF the power supply to the NX102 series CPU unit. If the CPU unit has not been ON, turn it ON for at least 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.



● Applicable wire size for Unit power source terminal

| Current limitation | Type | Strip length | Conductor surface |
|--------------------|--------------|--------------|-------------------|
| 4A max. | Solid/Strand | 9mm | Plated |

Do not use ferrule terminals.
 Insert the strand or solid wire directly into the holes on the terminal block.
 Please select wire size suitable for rated current.

| Wire size | Current(MAX) |
|-----------|--------------|
| AWG 24 | 2A |
| AWG 22 | 3A |
| AWG 20-16 | 5A |

Compliance to UL Standards and CSA Standards

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 INPUT TERMINAL OR BUS CONNECTOR WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS
3. This device is open - type and is required to be installed in an enclosure suitable for the environment and that can only be accessed with the use of a tool or key
4. WARNING - EXPLOSION HAZARD - DO NOT REMOVE OR REPLACE BATTERY CONNECTOR UNLESS THE AREA IS FREE OF IGNITABLE CONCENTRATIONS

1. CET APPAREILLAGE EST UNILISABLE DANS LES EMPLACEMENTS DE CLASS I DIVISION 2, GROUPES A, B, C, ET D, OU DANS LES EMPLACEMENTS NON DANGEREUX SEULEMENT.
2. AVERTISSEMENT - RISQUE D'EXPLOSION - NE PAS DECONNECTER LA BORNE D'ENTREE DE L'EQUIPEMENT OU LE CONNECTEUR DE BUS PENDANT QUE LE CIRCUIT EST SOUS TENSION SAUF DANS LES EMPLACEMENTS EST DESIGNE LOIN DE LES INFLAMMABLE CONCENTRATIONS.
3. 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.
4. AVERTISSEMENT - RISQUE D'EXPLOSION - NE PAS RETIRER OU REMPLACER LE CONNECTEUR DE LA BATTERIE SAUF DANS LES EMPLACEMENTS EST DESIGNE LOIN DE LES INFLAMMABLE CONCENTRATIONS

Conformance to EU Directives

This product is EMC-compliant when assembled in PLC system or Machine Automation Controller. To ensure the EU Directive conformance of customer's machinery or equipment in which the product is incorporated, be sure to observe the following precautions.

1. This product is defined as an in-panel device and must be installed within a control panel.
2. This product complies with the common emission standard (EN61131-2) with regard to EMI. For the radiated emission requirement (10-m regulations), in particular, please note that the actual emission varies depending on the configuration of the control panel to be used, the connected devices, and wiring methods. Therefore, the customer must confirm the EU Directive conformance of the overall machinery or equipment by themselves, even if this EU conforming product is used.

This is a class A product. In residential areas it may cause radio interference, in which case the user maybe required to take adequate measures to reduce interference.

We have confirmed that this product conforms to EMC standards with OMRON S8VK-S series Power Supplies.

For KC standard only

● 사 용 자 안 내 문
 이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

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Note: Specifications subject to change without notice.
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