NX-series System Unit

# NX-PD/PF/PC/TBX

CSM_NX-PD_PF_PC_TBX_DS_E_3_2

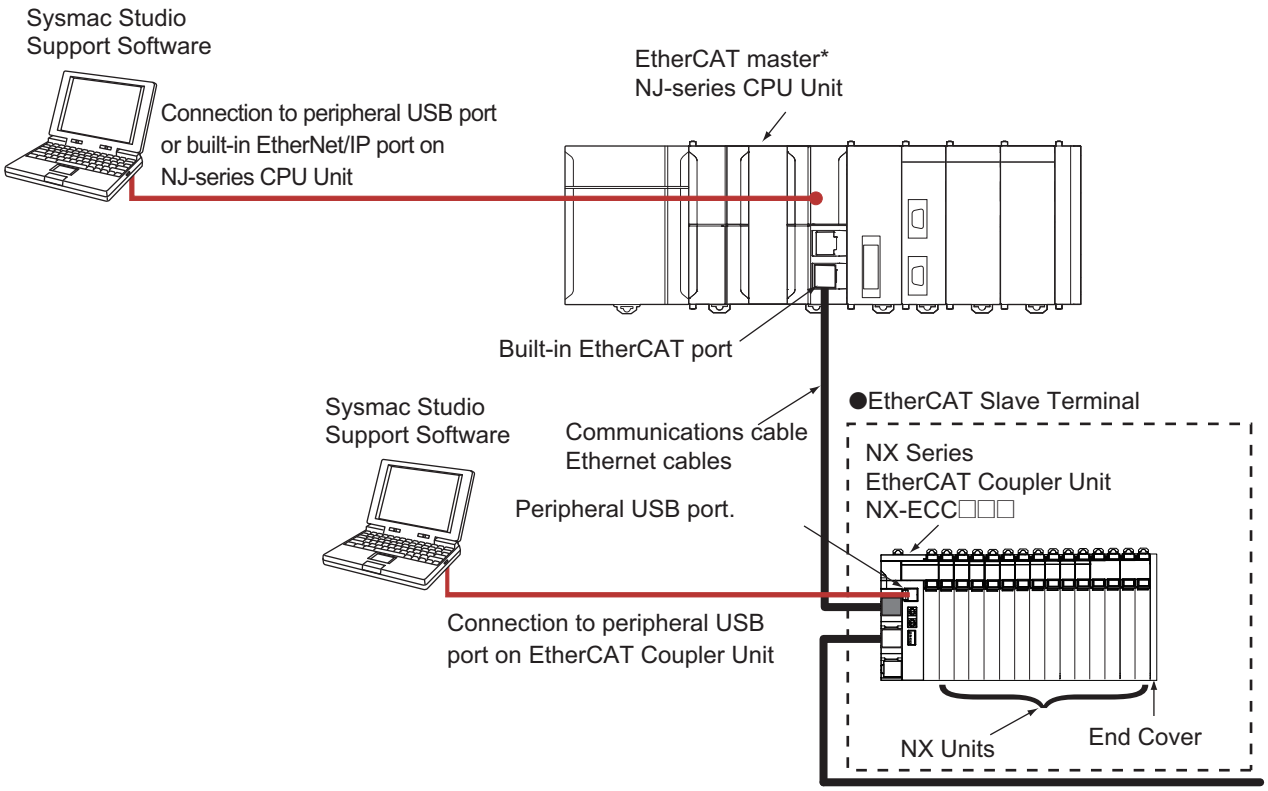
## Power Supply Unit, Power Connection Unit, and FG Terminal Expansion Unit for NX-series

- Provide stabilised power to the internal circuits of NX I/O Units.
- Feed additional power to I/O circuits of NX I/O Units.
- Provide extra terminals for sensor/actuator power and termination of shielded cabling.

## Features

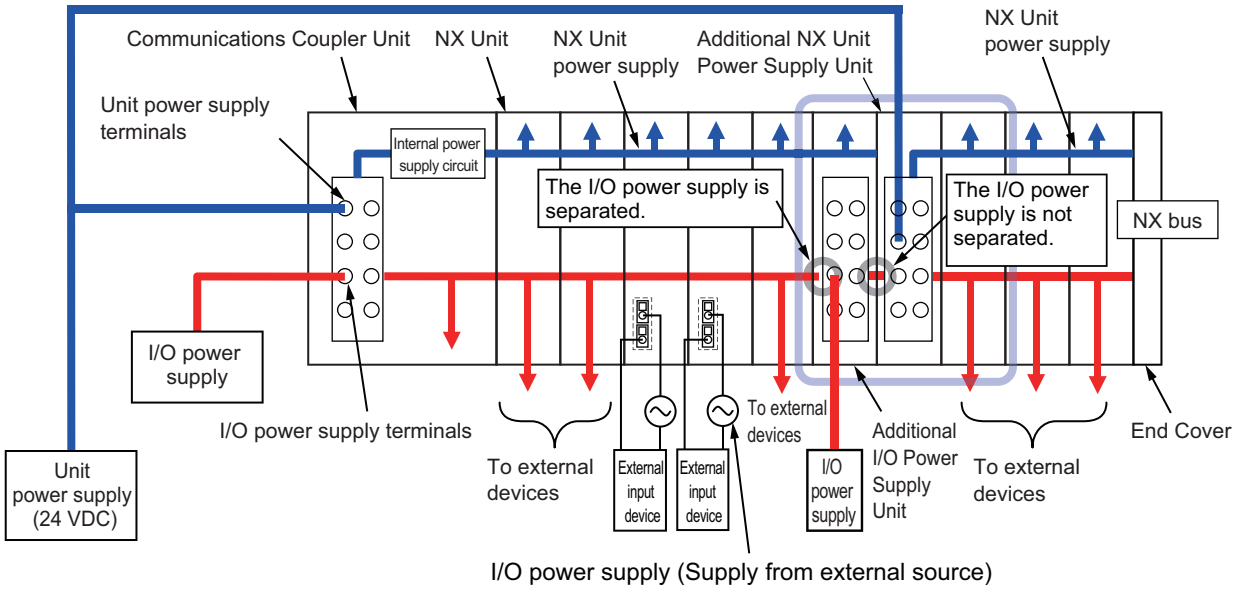
- Units to feed in additional Unit power and I/O power to an NX-series remote I/O terminal.
- Screwless clamp terminal block significantly reduces wiring work.
- Space-saving 12 mm wide units.
- The NX Unit Power Supply Unit allows expansion of the I/O configuration beyond the maximum power supply capacity of the EtherCAT Coupler
- The I/O Power Supply Unit is used when the total allowed I/O current per feed terminal is exceeded, or to split I/O power into groups.
- The I/O Power Connection Unit can be used as an additional power supply terminal for connected sensors and actuators.
- The FG Terminal Expansion Unit can be used as ground terminal for wire shields.
- The screwless terminal block is detachable for easy commissioning and maintenance.

## System Configuration




* OMRON CJ1W-NC□81/□82 Position Control Units cannot be connected to the EtherCAT Slave Terminal even though they support EtherCAT.

## Power Supply Systems




**Note:** Supply the Unit power and the I/O power from different power supplies. If you supply power from the same power supply the galvanic separation between the bus system and the I/O circuits is no longer effective. Noise generated in the I/O circuits may cause malfunctions in the internal circuits of the units.

# 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, CE: EC Directives, and KC: KC Registration.
- Contact your OMRON representative for further details and applicable conditions for these standards.

### Additional NX Unit Power Supply Unit

| Unit type | Product Name | Power supply voltage | NX Bus power supply capacity | NX Unit power consumption | Model | Standards |
|---|---|---|---|---|---|---|
| NX Series System Unit | Additional NX Unit Power Supply Unit  | 24 VDC (20.4 to 28.8 VDC) | 10 W max. | 0.45 W max. | **NX-PD1000** | UC1, N, L, CE, KC |

### Additional I/O Power Supply Unit

| Unit type | Product Name | Power supply voltage | I/O power feed maximum current | NX Unit power consumption | Model | Standards |
|---|---|---|---|---|---|---|
| NX Series System Unit | Additional I/O Power Supply Unit  | 5 to 24 VDC (4.5 to 28.8 VDC) | 4 A | 0.45 W max. | **NX-PF0630** | UC1, N, L, CE, KC |
| | | | 10 A | | **NX-PF0730** | |

### I/O Power Supply Connection Unit

| Unit type | Product Name | Number of I/O power terminals | Current capacity of I/O power terminal | NX Unit power consumption | Model | Standards |
|---|---|---|---|---|---|---|
| NX Series System Unit | I/O Power Supply Connection Unit  | IOG: 16 terminals | 4 A/terminal max. | 0.45 W max. | **NX-PC0010** | UC1, N, L, CE, KC |
| | | IOV: 16 terminals | 4 A/terminal max. | 0.45 W max. | **NX-PC0020** | UC1, N, L, CE, KC |
| | | IOV:8 terminals IOG:8 terminals | 4 A/terminal max. | 0.45 W max. | **NX-PC0030** | UC1, N, L, CE, KC |

### Shield Connection Unit

| Unit type | Product Name | Number of shield terminals | NX Unit power consumption | Model | Standards |
|---|---|---|---|---|---|
| NX Series System Unit | Shield Connection Unit  | 14 terminals (The following two terminals are functional ground terminals.) | 0.45 W max. | **NX-TBX01** | UC1, N, L, CE, KC |

## Optional Products

| Product Name | Specification | Model | Standards |
|---|---|---|---|
| **Unit/Terminal Block Coding Pins** | For 10 Units<br>(Terminal Block: 30 pins, Unit: 30 pins) | **NX-AUX02** | – |

| Product Name | Specification | | | | Model | Standards |
|---|---|---|---|---|---|---|
| | No. of terminals | Terminal number indications | Ground terminal mark | Terminal current capacity | | |
| **Terminal Block** | 8 | A/B | None | 10 A | **NX-TBA082** | --- |
| | | | Provided | | **NX-TBC082** | |
| | 16 | | None | | **NX-TBA162** | |
| | | | Provided | | **NX-TBC162** | |

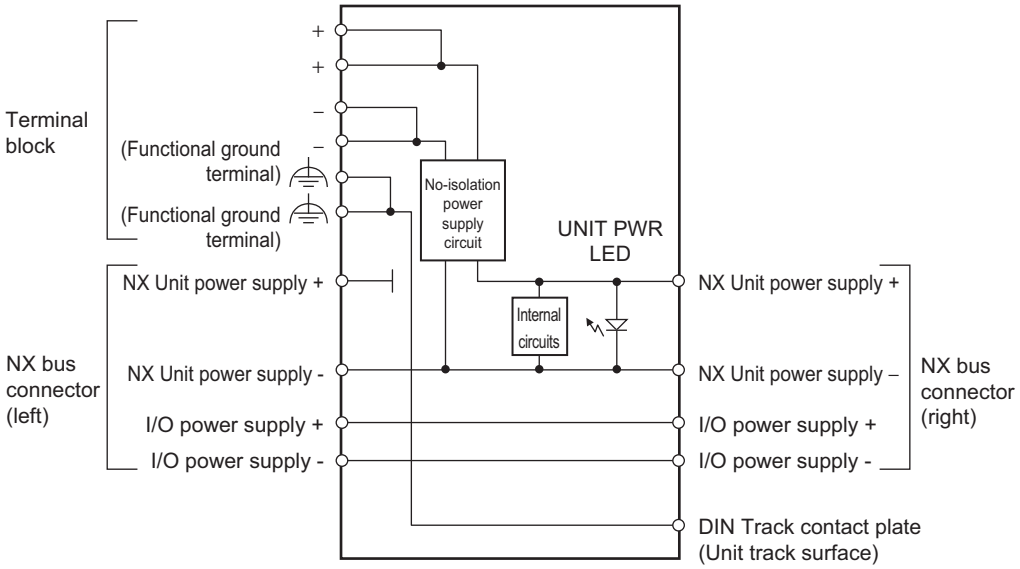
**Accessories**
There are no accessories.

# General Specification

| Item | | Specification |
|---|---|---|
| Enclosure | | Mounted in a panel |
| Grounding method | | Ground to 100 Ω or less |
| Operating environment | Ambient operating temperature | 0 to 55°C |
| | Ambient operating humidity | 10% to 95% (with no condensation or icing) |
| | Atmosphere | Must be free from corrosive gases. |
| | Ambient storage temperature | –25 to 70°C (with no condensation or icing) |
| | Altitude | 2,000 m max. |
| | Pollution degree | 2 or less: Conforms to JIS B3502 and IEC 61131-2. |
| | Noise immunity | 2 kV on power supply line (Conforms to IEC61000-4-4.) |
| | Overvoltage category | Category II: Conforms to JIS B3502 and IEC 61131-2. |
| | EMC immunity level | Zone B |
| | Vibration resistance | Conforms to IEC 60068-2-6.<br>5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 $m/s^2$, 100 min each in X, Y, and Z directions<br>(10 sweeps of 10 min each = 100 min total) |
| | Shock resistance | Conforms to IEC 60068-2-27. 147 $m/s^2$, 3 times each in X, Y, and Z directions |
| Applicable standards | | cULus: Listed UL508 and ANSI/ISA 12.12.01<br>EC: EN 61131-2 and C-Tick, KC Registration, NK, LR |

# Specification

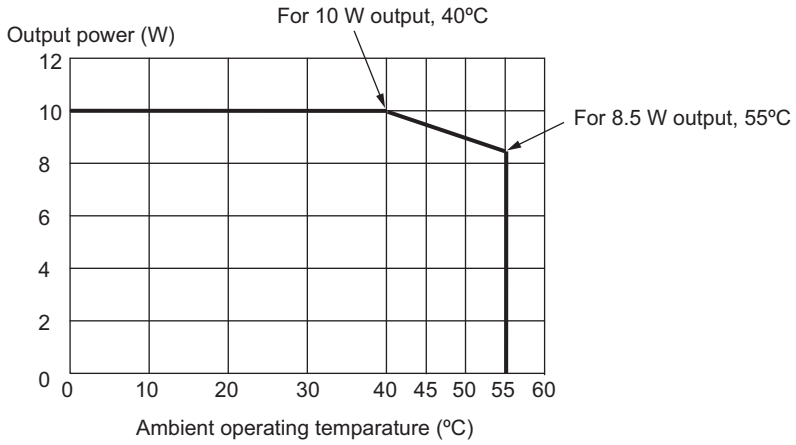
### Additional NX Unit Power Supply Unit NX-PD1000

| | |
|---|---|
| **Unit name** | Additional NX Unit Power Supply Unit |
| **Model** | NX-PD1000 |
| **External connection terminals** | Screwless push-in terminal block (8 terminals) |
| **Power supply voltage** | 24 VDC (20.4 to 28.8 VDC) |
| **NX Bus power supply capacity** | 10 W max. (Refer to Installation orientation and restrictions for details.) |
| **NX Unit power supply efficiency** | 70% |
| **Unwired terminal current capacity** | 4 A max. (Including the current of through-wiring) |
| **Dimensions** | 12 (W) × 100 (H) 71 × (D) |
| **Isolation method** | No-isolation |
| **Insulation resistance** | 20 MΩ min. between isolated circuits (at 100 VDC) |
| **Dielectric strength** | 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. |
| **NX Unit power consumption** | 0.45 W max. |
| **I/O current consumption** | No consumption |
| **Weight** | 65 g max. |
| **Circuit layout** |  |

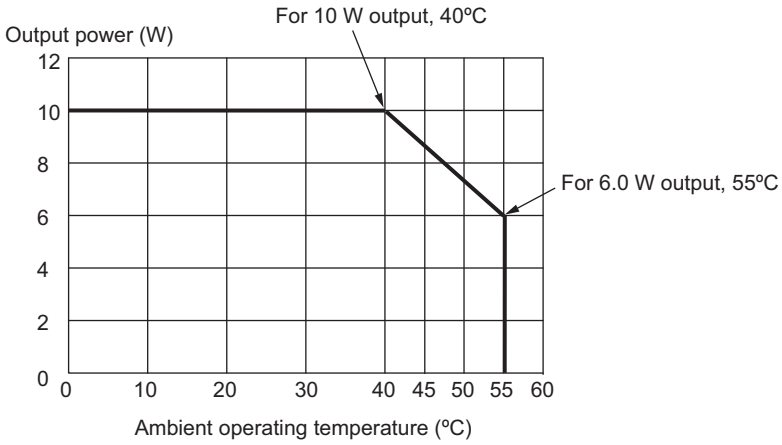
**Installation orientation and restrictions**

Installation orientation: Possible in 6 orientations.
Restrictions:

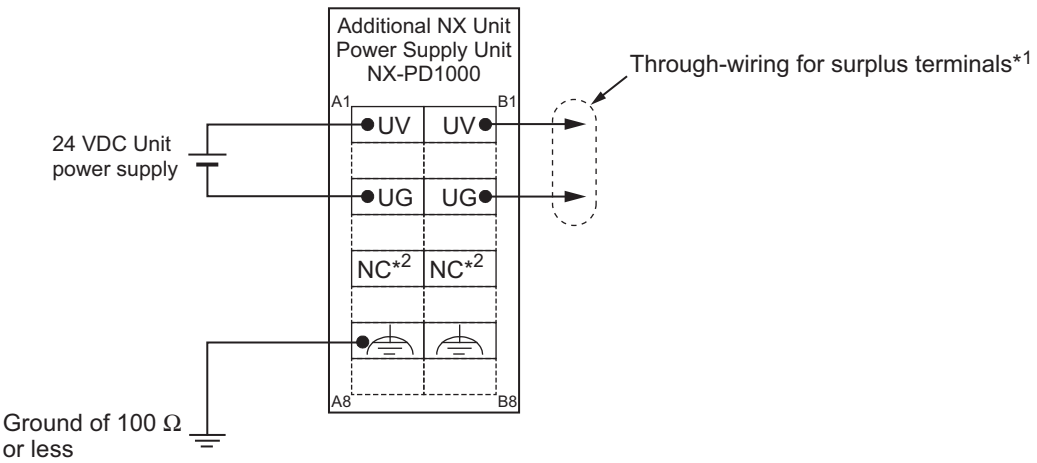
- For upright installation




- For any installation other than upright

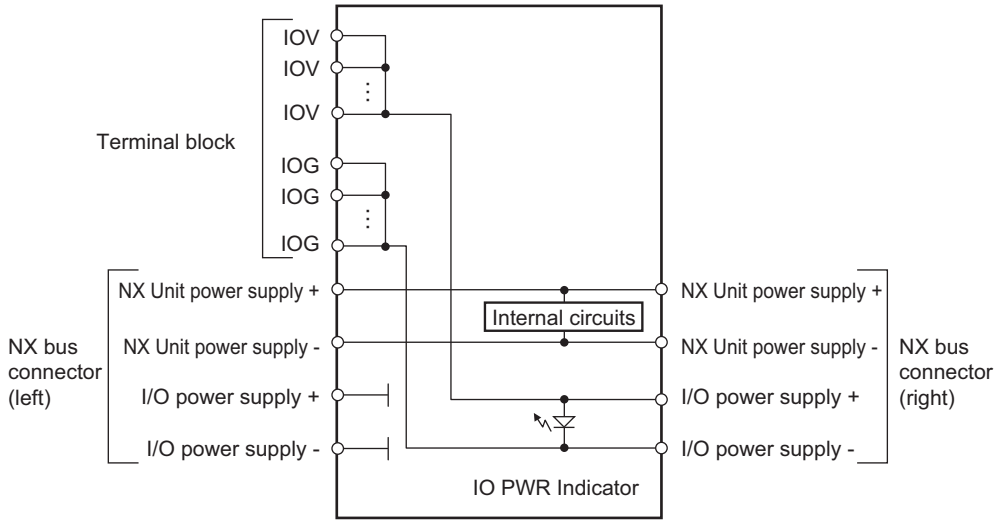
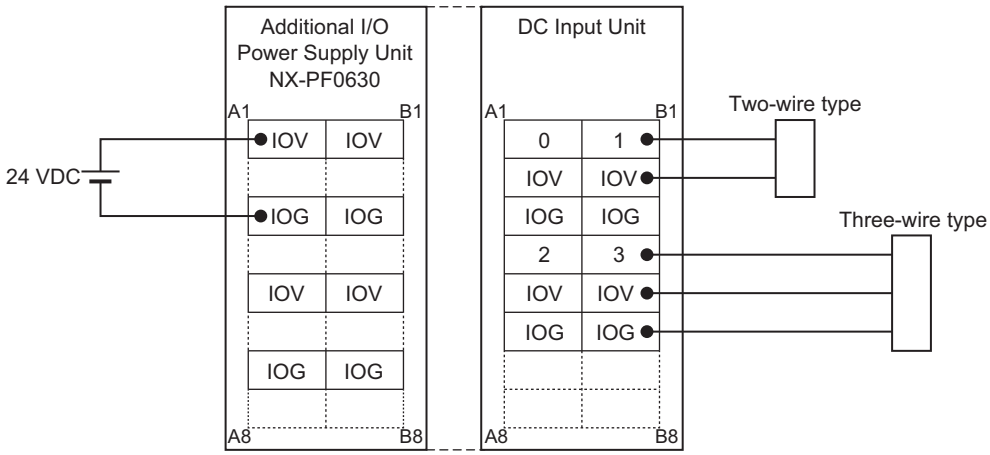



**Terminal connection diagram**



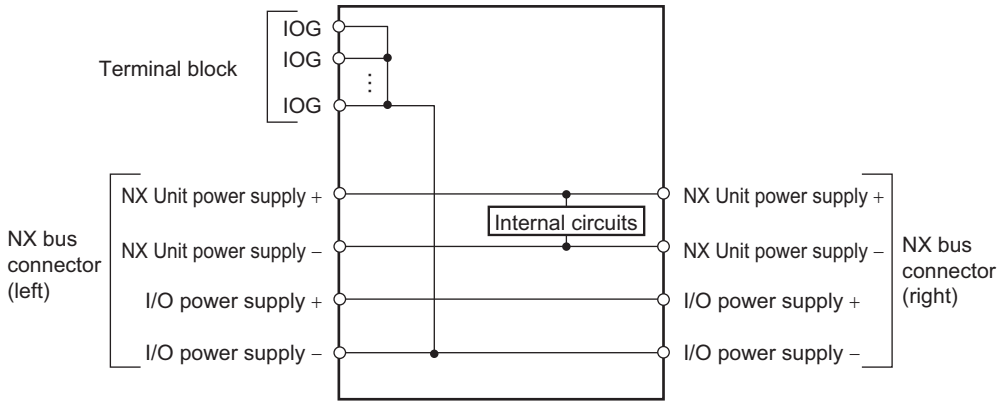
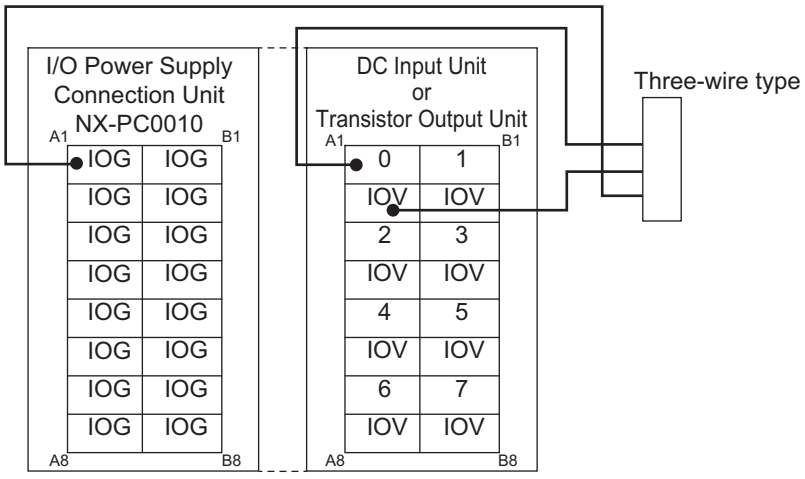

*1. You can use the unwired terminals of the Unit power supply terminals (UV/UG) for through-wiring of the Additional NX Unit Power Supply Unit or the Unit power supply terminals on the EtherCAT Coupler Unit.
*2. The NC terminal is not connected to the internal circuit.

### Additional I/O Power Supply Units NX-PF0□30

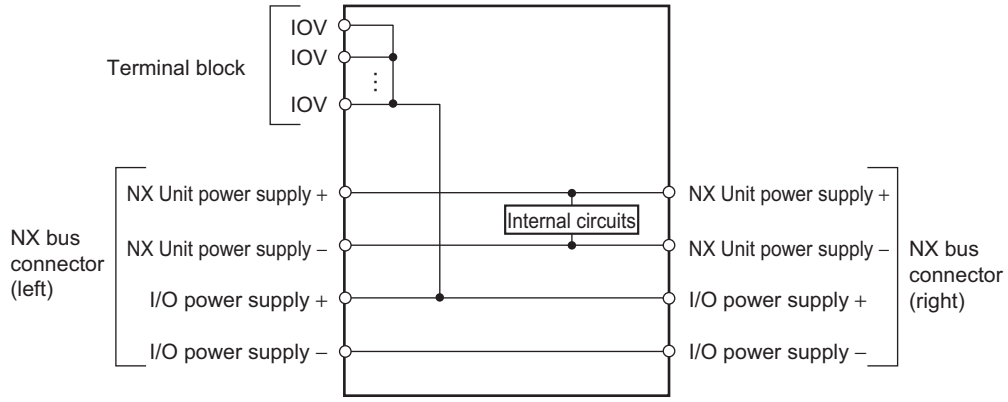
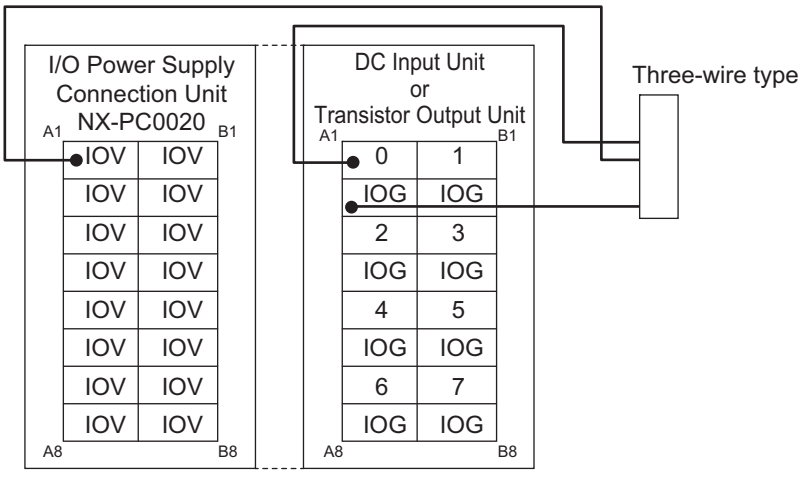
| | | |
|---|---|---|
| **Unit name** | Additional I/O Power Supply Unit | |
| **Model** | NX-PF0630 | NX-PF0730 |
| **External connection terminals** | Screwless push-in terminal block (8 terminals) | |
| **Power supply voltage** | 5 to 24 VDC (4.5 to 28.8 VDC)* | |
| **I/O power supply maximum current** | 4 A | 10 A |
| **Current capacity of I/O power supply terminal** | 4 A max. | 10 A max. |
| **Dimensions** | 12 (W) × 100 (H) 71 × (D) | |
| **Isolation method** | No-isolation | |
| **Insulation resistance** | 20 MΩ min. between isolated circuits (at 100 VDC) | |
| **Dielectric strength** | 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. | |
| **NX Unit power consumption** | 0.45 W max. | |
| **I/O current consumption** | 10 mA max. | |
| **Weight** | 65 g max. | |
| **Circuit layout** |  | |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions | |
| **Terminal connection diagram** |  | |
| **Overload/low voltage detection** | Not supported | |
| **Protective function** | Not supported. | |

* Use an output voltage that is appropriate for the I/O circuits of the NX Units and the connected external devices.

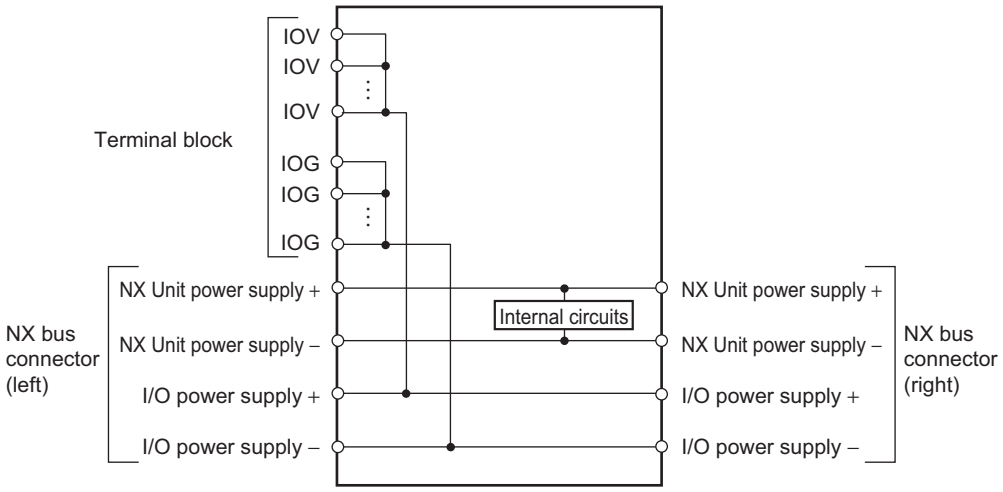
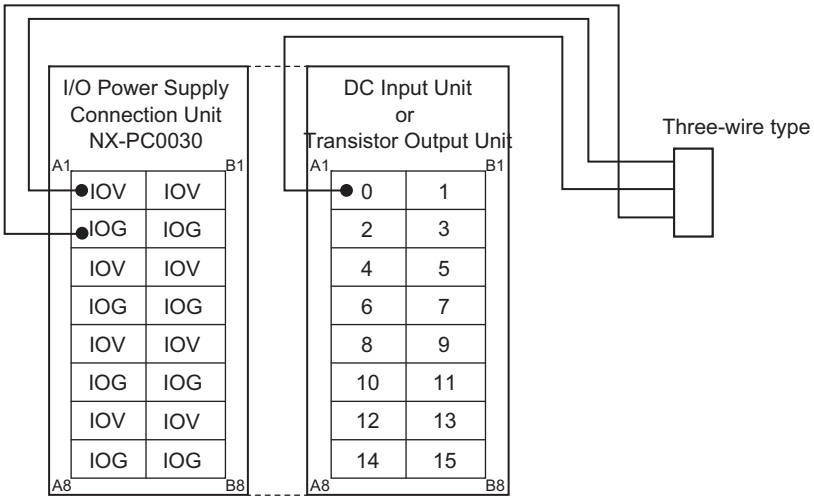
**I/O Power Supply Connection Unit IOG terminal type NX-PC0010**

| | |
|---|---|
| **Unit name** | I/O Power Supply Connection Unit |
| **Model** | NX-PC0010 |
| **External connection terminals** | Screwless push-in terminal block (16 terminals) |
| **Number of I/O power supply terminals** | IOG: 16 terminals |
| **Current capacity of I/O power supply terminal** | 4 A/terminal max. |
| **Dimensions** | 12 (W) × 100 (H) 71 ×(D) |
| **Isolation method** | No-isolation |
| **Insulation resistance** | 20 MΩ min. between isolated circuits (at 100 VDC) |
| **Dielectric strength** | 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. |
| **NX Unit power consumption** | 0.45 W max. |
| **I/O current consumption** | No consumption |
| **Weight** | 65 g max. |
| **Circuit layout** |  |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions |
| **Terminal connection diagram** |  |

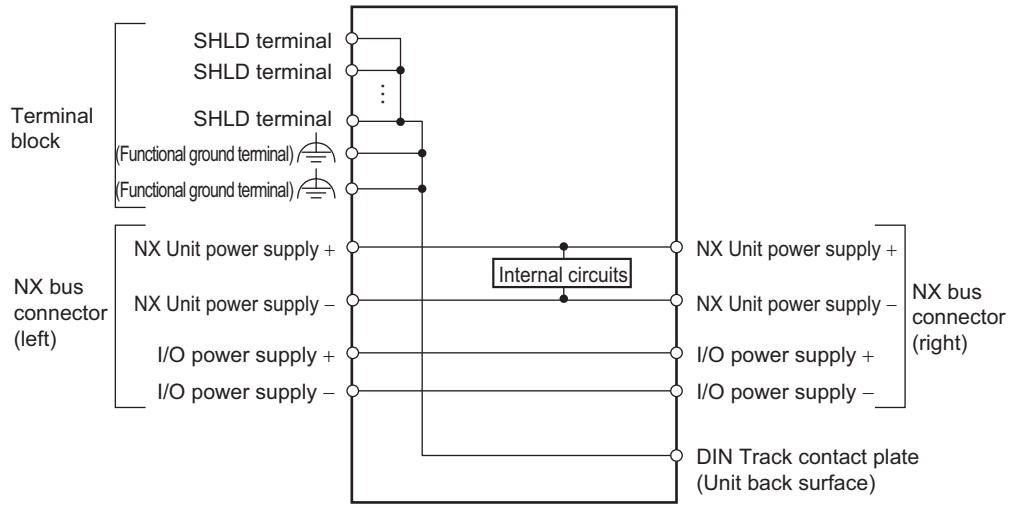
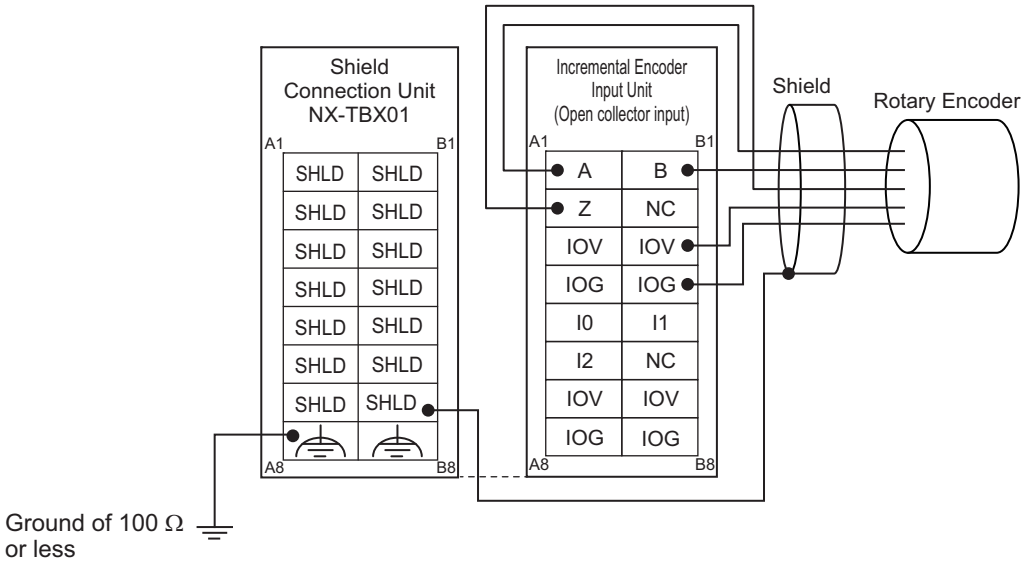
**I/O Power Supply Connection Unit IOV terminal type NX-PC0020**

| | |
|---|---|
| **Unit name** | I/O Power Supply Connection Unit |
| **Model** | NX-PC0020 |
| **External connection terminals** | Screwless push-in terminal block (16 terminals) |
| **Number of I/O power supply terminals** | IOV: 16 terminals |
| **Current capacity of I/O power supply terminal** | 4 A/terminal max. |
| **Dimensions** | 12 (W) × 100 (H) 71 × (D) |
| **Isolation method** | No-isolation |
| **Isolation resistance** | 20 MΩ min. between isolated circuits (at 100 VDC) |
| **Dielectric strength** | 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. |
| **NX Unit power consumption** | 0.45 W max. |
| **I/O current consumption** | No consumption |
| **Weight** | 65 g max. |
| **Circuit layout** |  |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions |
| **Terminal connection diagram** |  |

**I/O Power Supply Connection Unit IOV/IOG terminal type NX-PC00300**

| | |
|---|---|
| **Unit name** | I/O Power Supply Connection Unit |
| **Model** | NX-PC0030 |
| **External connection terminals** | Screwless push-in terminal block (16 terminals) |
| **Number of I/O power supply terminals** | IOV: 8 terminals<br>IOG: 8 terminals |
| **Current capacity of I/O power supply terminal** | 4 A/terminal max. |
| **Dimensions** | 12 (W) × 100 (H) 71 × (D) |
| **Isolation method** | No-isolation |
| **Insulation resistance** | 20 MΩ min. between isolated circuits (at 100 VDC) |
| **Dielectric strength** | 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. |
| **NX Unit power consumption** | 0.45 W max. |
| **I/O current consumption** | No consumption |
| **Weight** | 65 g max. |
| **Circuit layout** |  |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions |
| **Terminal connection diagram** |  |

### Shield Connection Unit NX-TBX01

| | |
|---|---|
| **Unit name** | Shield Connection Unit |
| **Model** | NX-TBX01 |
| **External connection terminals** | Screwless push-in terminal block (16 terminals) |
| **Number of shield terminals** | 14 terminals (The following two terminals are functional ground terminals.) |
| **Dimensions** | 12 (W) × 100 (H) 71 × (D) |
| **Isolation method** | Isolation between the SHLD functional ground terminal, and internal circuit: No-isolation |
| **Insulation resistance** | 20 MΩ min. between isolated circuits (at 100 VDC) |
| **Dielectric strength** | 510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max. |
| **NX Unit power consumption** | 0.45 W max. |
| **I/O current consumption** | No consumption |
| **Weight** | 65 g max. |
| **Circuit layout** |  |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions |
| **Terminal connection diagram** |  |

## Version Information

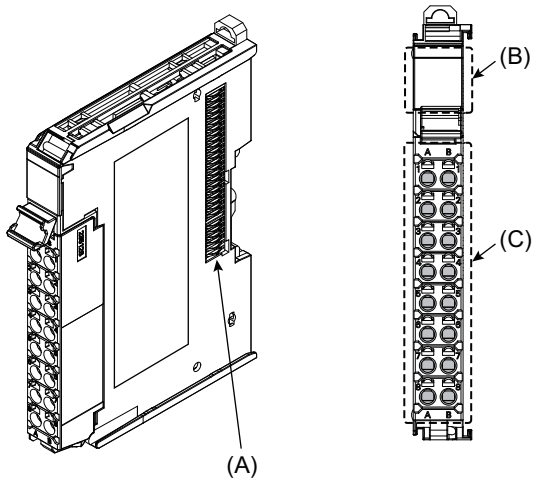
| NX Units | | Corresponding unit versions/versions | | |
|---|---|---|---|---|
| Model | Unit Version | EtherCAT Coupler Units NX-ECC201/ECC202* | NJ-series CPU Units NJ501-□□□□/NJ301-□□□□ | Sysmac Studio |
| NX-PD1000 | Ver.1.0 | Ver.1.0 or later | Ver.1.05 or later | Ver.1.06 or higher |
| NX-PF0630 | | | | |
| NX-PF0730 | | | | Ver.1.08 or higher |
| NX-PC0020 | | | | Ver.1.06 or higher |
| NX-PC0010 | | | | |
| NX-PC0030 | | | | |
| NX-TBX01 | | | | |

* For the NX-ECC202, there is no unit version of 1.1 or earlier.

# External Interface

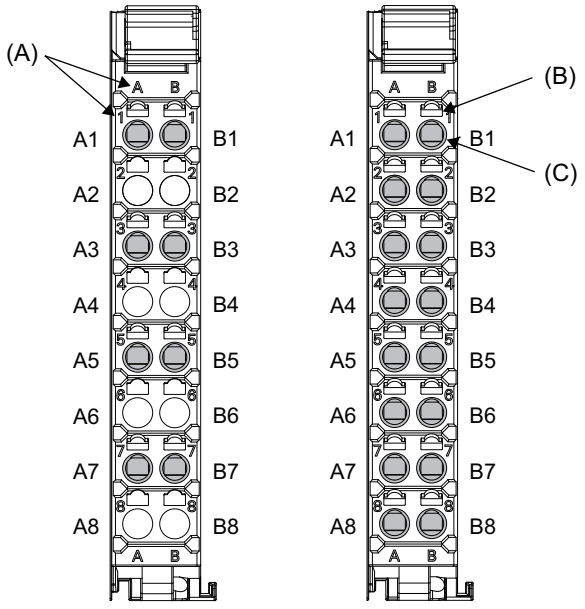
## Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

**NX-PD1000/NX-PF0□30/NX-PC00□0/NX-TBX01**




| Symbol | Name | Function |
|---|---|---|
| (A) | NX bus connector | This connector is used to connect each Unit. |
| (B) | Indicators | The indicators show the current operating status of the Unit. |
| (C) | Terminal block | The terminal block is used to connect external devices.<br>The number of terminals depends on the type of Unit. |

### Terminal Blocks




8-terminal type　　16-terminal type

| Symbol | Name | Function |
|---|---|---|
| {A) | Terminal number indications | Terminal numbers for which A and B indicate the column, and 1 to 8 indicate the line are displayed. The terminal number is a combination of column and line, so A1 to A8 and B1 to B8 are displayed.<br>The terminal number indications are the same regardless of the number of terminals on the terminal block. |
| (B) | Release holes | Insert a flat-blade screwdriver into these holes to connect and remove the wires. |
| (C) | Terminal holes | The wires are inserted into these holes. |

## Applicable Terminal Blocks for Each Unit Model

| Unit model | Terminal Blocks | | | | |
|---|---|---|---|---|---|
| | Model | No. of terminals | Terminal number indications | Ground terminal mark | Terminal current capacity |
| NX-PD1000 | NX-TBC082 | 8 | A/B | Provided | 10 A |
| NX-PF0630 | NX-TBA082 | 8 | A/B | None | 10 A |
| NX-PF0730 | NX-TBA082 | 8 | A/B | None | 10 A |
| NX-PC□□□□ | NX-TBA162 | 16 | A/B | None | 10 A |
| NX-TBX01 | NX-TBC162 | 16 | A/B | Provided | 10 A |

# Applicable Wires

### Using Ferrules

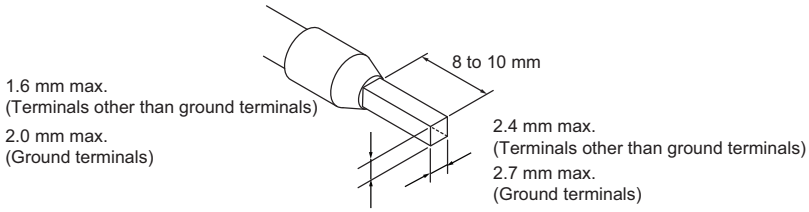
If you use ferrules, attach the twisted wires to them.
Observe the application instructions for your ferrules for the wire stripping length when attaching ferrules.
Always use plated one-pin ferrules. Do not use unplated ferrules or two-pin ferrules.

The applicable ferrules, wires, and crimping tool are given in the following table.

| Terminal types | Manufacturer | Ferrule model | Applicable wire ($mm^2$ (AWG)) | Crimping tool |
|---|---|---|---|---|
| Terminals other than ground terminals | Phoenix Contact | AI0,34-8 | 0.34 (#22) | Phoenix Contact (The figure in parentheses is the applicable wire size.)<br>CRIMPFOX 6 (0.25 to 6 $mm^2$, AWG 24 to 10) |
| | | AI0,5-8 | 0.5 (#20) | |
| | | AI0,5-10 | | |
| | | AI0,75-8 | 0.75 (#18) | |
| | | AI0,75-10 | | |
| | | AI1,0-8 | 1.0 (#18) | |
| | | AI1,0-10 | | |
| | | AI1,5-8 | 1.5 (#16) | |
| | | AI1,5-10 | | |
| Ground terminals | | AI2,5-10 | 2.0 *1 | |
| Terminals other than ground terminals | Weidmuller | H0.14/12 | 0.14 (#26) | Weidmueller (The figure in parentheses is the applicable wire size.)<br>PZ6 Roto (0.14 to 6 $mm^2$, AWG 26 to 10) |
| | | H0.25/12 | 0.25 (#24) | |
| | | H0.34/12 | 0.34 (#22) | |
| | | H0.5/14 | 0.5 (#20) | |
| | | H0.5/16 | | |
| | | H0.75/14 | 0.75 (#18) | |
| | | H0.75/16 | | |
| | | H1.0/14 | 1.0 (#18) | |
| | | H1.0/16 | | |
| | | H1.5/14 | 1.5 (#16) | |
| | | H1.5/16 | | |

*1. Some AWG 14 wires exceed 2.0 $mm^2$ and cannot be used in the screwless clamping terminal block.

When you use any ferrules other than those in the above table, crimp them to the twisted wires so that the following processed dimensions are achieved.

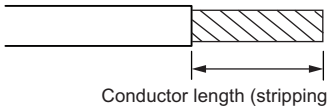



### Using Twisted Wires/Solid Wires

If you use the twisted wires or the solid wires, use the following table to determine the correct wire specifications.

| Terminals | | Wire type | | Wire plating | | Wire size | Conductor length (stripping length) |
|---|---|---|---|---|---|---|---|
| Classification | Current capacity | Twisted wires | Solid wire | Plated | Unplated | | |
| All terminals except ground terminals | 2 A max. | Possible | Possible | Possible | Possible | 0.08 to 1.5 $mm^2$ AWG28 to 16 | 8 to 10 mm |
| | Greater than 2 A and 4 A or less | | | | Not Possible | | |
| | Greater than 4 A | | Not Possible | | | | |
| Ground terminals * | --- | | Possible | | Possible | 2.0 $mm^2$ | 9 to 10 mm |

* With the NX-TB□□□1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.




**<Additional Information>** If more than 2 A will flow on the wires, use plated wires or use ferrules.

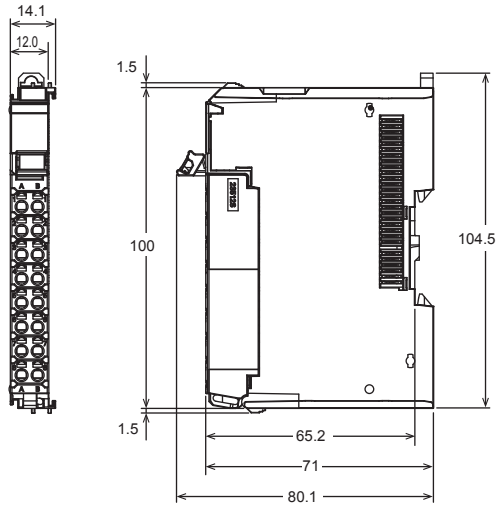
# Dimensions

(Unit: mm)

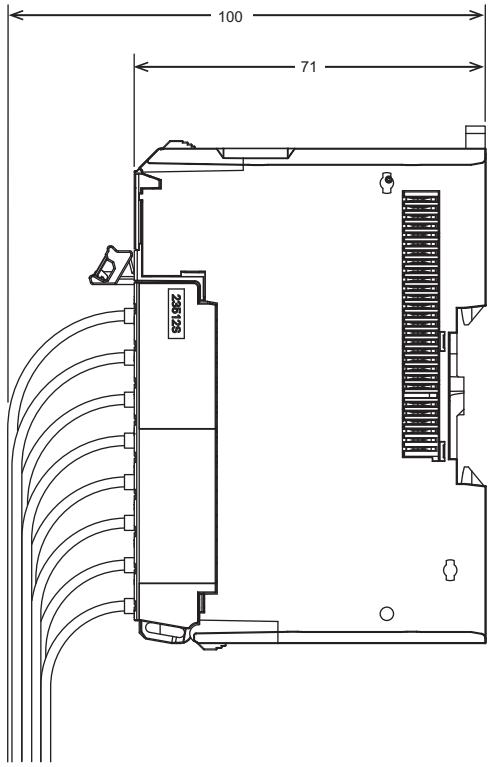
## Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

**NX-PD1000/NX-PF0□30/NX-PC00□0/NX-TBX01**

● **Unit Only**




● **With Cables Connected**




# Related Manuals

| Man. No | Model | Manual | Application | Description |
|---|---|---|---|---|
| W523 | NX-PD1 □□□<br>NX-PF0 □□□<br>NX-PC0 □□□<br>NX-TBX □□□ | NX-series System Unit User's Manual | Learning how to use NX-series System Units | The hardware and functions of the NX-series System Units are described. |

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Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А