

Slave Terminals NX Series


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: EU Directives, EAC: EAC mark, RCM: Regulatory Compliance Mark, and KC: KC Registration.
- Contact your OMRON representative for further details and applicable conditions for these standards.

Communications Coupler Units


• EtherCAT Coupler Units

| Unit type | Product name | Communications cycle in DC Mode | Current consumption | Maximum I/O power supply current | Model | Standards |
|--|---|---------------------------------|---------------------|----------------------------------|-----------|------------------------|
| NX-series Communications Coupler Unit *1 |  | 250 to 4000 μ s *2 | 1.45 W or lower | 4 A | NX-ECC201 | UC1, N, L, CE, RCM, KC |
| | | 250 to 4000 μ s *2 | | 10 A | NX-ECC202 | |
| | | 125 to 10000 μ s *2 | 1.25 W or lower | | NX-ECC203 | |

*1. One End Cover NX-END01 is provided with the EtherCAT Coupler Unit.

*2. This depends on the specifications of the EtherCAT master. For example, the values are as follows when the EtherCAT Coupler Unit is connected to the built-in EtherCAT port on an NJ5-series CPU Unit: 500 μ s, 1,000 μ s, 2,000 μ s, and 4,000 μ s. For the specifications of the built-in EtherCAT port, refer to the user's manual for the built-in EtherCAT port on the connected CPU Unit or the Industrial PC. This depends on the Unit configuration.


• EtherNet/IP Coupler Unit

| Unit type | Product name | Current consumption | Maximum I/O power supply current | Model | Standards |
|---|--|---------------------|----------------------------------|-----------|------------------|
| NX-series Communications Coupler Unit * |  | 1.60 W or lower | 10 A | NX-EIC202 | UC1, CE, RCM, KC |

* One End Cover NX-END01 is provided with the EtherCAT Coupler Unit.


Digital Input Units

• DC Input Units (Screwless Clamping Terminal Block, 12 mm Width)


| Unit type | Product name | Specification | | | | Model | Standards | | | |
|------------------------------|---|------------------|---------------------|---------------------|--|---|--|------------------------|--------------------------------------|-----------|
| | | Number of points | Internal I/O common | Rated input voltage | I/O refreshing method | | | ON/OFF response time | | |
| NX-series Digital Input Unit |  | 4 points | NPN | 12 to 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 20 μ s max./ 400 μ s max. | NX-ID3317 | UC1, N, L, CE, RCM, KC | | |
| | | | | 24 VDC | Input refreshing with input changed time only * | 100 ns max./ 100 ns max. | NX-ID3343 | | | |
| | | | | 12 to 24 VDC | | | Switching Synchronous I/O refreshing and Free-Run refreshing | | 20 μ s max./ 400 μ s max. | NX-ID3417 |
| | | | 8 points | PNP | 24 VDC | Input refreshing with input changed time only * | 100 ns max./ 100 ns max. | | NX-ID3443 | |
| | | | | | | | | | NX-ID3444 | |
| | | | | | | | | | NX-ID4342 | |
| | | 16 points | NPN | 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 20 μ s max./ 400 μ s max. | NX-ID4442 | | | |
| | | | | | | | NX-ID5342 | | | |
| | | | | | | | | | NX-ID5442 | |

* To use input refreshing with input changed time, the NJ-series CPU Unit with unit version 1.06 or later, EtherCAT Coupler Unit with unit version 1.1 or later, and Sysmac Studio version 1.07 or higher are required.


• DC Input Unit (M3 Screw Terminal Block, 30 mm Width)

| Unit type | Product name | Specification | | | | Model | Standards | |
|------------------------------|---|------------------|---------------------|---------------------|--|--------------------------------------|-------------|------------------------|
| | | Number of points | Internal I/O common | Rated input voltage | I/O refreshing method | | | ON/OFF response time |
| NX-series Digital Input Unit |  | 16 points | For both NPN/PNP | 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 20 μ s max./ 400 μ s max. | NX-ID5142-1 | UC1, N, L, CE, RCM, KC |


● DC Input Units (MIL Connector, 30 mm Width)

| Unit type | Product name | Specification | | | | | Model | Standards |
|------------------------------|---|------------------|---------------------|---------------------|--|----------------------------|-------------|------------------------|
| | | Number of points | Internal I/O common | Rated input voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Input Unit |  | 16 points | For both NPN/PNP | 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 20 μs max./ 400 μs max. | NX-ID5142-5 | UC1, N, L, CE, RCM, KC |
| | | 32 points | | | | | NX-ID6142-5 | |

● DC Input Unit (Fujitsu Connector, 30 mm Width)


| Unit type | Product name | Specification | | | | | Model | Standards |
|------------------------------|---|------------------|---------------------|---------------------|--|----------------------------|-------------|------------------------|
| | | Number of points | Internal I/O common | Rated input voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Input Unit |  | 32 points | For both NPN/PNP | 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 20 μs max./ 400 μs max. | NX-ID6142-6 | UC1, N, L, CE, RCM, KC |

● AC Input Unit (Screwless Clamping Terminal Block, 12 mm Width)

| Unit type | Product name | Specification | | | | Model | Standards |
|------------------------------|---|------------------|---|-----------------------|---------------------------|-----------|---------------------|
| | | Number of points | Rated input voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Input Unit |  | 4 points | 200 to 240 VAC, 50/60 Hz (170 to 264 VAC, ±3 Hz) | Free-Run refreshing | 10 ms max./ 40 ms max. | NX-IA3117 | UC1, N, CE, RCM, KC |


Digital Output Units

• Transistor Output Units (Screwless Clamping Terminal Block, 12 mm Width)


| Unit type | Product name | Specification | | | | | | Model | Standards |
|-------------------------------|---|------------------|---------------------|-------------------------------|---------------|--|--------------------------|-----------|------------------------|
| | | Number of points | Internal I/O common | Maximum value of load current | Rated voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | 2 points | NPN | 0.5 A/point, 1 A/Unit | 24 VDC | Output refreshing with specified time stamp only * | 300 ns max./ 300 ns max. | NX-OD2154 | UC1, N, L, CE, RCM, KC |
| | | | PNP | | | | NX-OD2258 | | |
| | | 4 points | NPN | 0.5 A/point, 2 A/Unit | 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 0.1 ms max./ 0.8 ms max. | NX-OD3121 | |
| | | | | | | | 300 ns max./ 300 ns max. | NX-OD3153 | |
| | | | PNP | 0.5 ms max./ 1.0 ms max. | NX-OD3256 | | | | |
| | | | | 300 ns max./ 300 ns max. | NX-OD3257 | | | | |
| | | 8 points | NPN | 0.5 A/point, 4 A/Unit | 12 to 24 VDC | 0.1 ms max./ 0.8 ms max. | NX-OD4121 | | |
| | | | PNP | | 24 VDC | 0.5 ms max./ 1.0 ms max. | NX-OD4256 | | |
| | | 16 points | NPN | 0.5 A/point, 4 A/Unit | 12 to 24 VDC | 0.1 ms max./ 0.8 ms max. | NX-OD5121 | | |
| | | | PNP | | 24 VDC | 0.5 ms max./ 1.0 ms max. | NX-OD5256 | | |

* To use output refreshing with specified time stamp, the NJ-series CPU Unit with unit version 1.06 or later, EtherCAT Coupler Unit with unit version 1.1 or later, and Sysmac Studio version 1.07 or higher are required.


• Transistor Output Units (M3 Screw Terminal Block, 30 mm Width)

| Unit type | Product name | Specification | | | | | | Model | Standards |
|-------------------------------|---|------------------|---------------------|-------------------------------|---------------|--|--------------------------|-------------|------------------------|
| | | Number of points | Internal I/O common | Maximum value of load current | Rated voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | 16 points | NPN | 0.5 A/point, 5 A/Unit | 12 to 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 0.1 ms max./ 0.8 ms max. | NX-OD5121-1 | UC1, N, L, CE, RCM, KC |
| | | | PNP | | 24 VDC | | 0.5 ms max./ 1.0 ms max. | NX-OD5256-1 | |


• Transistor Output Units (MIL Connector, 30 mm Width)

| Unit type | Product name | Specification | | | | | | Model | Standards |
|-------------------------------|---|------------------|---------------------|-----------------------------------|---------------|--|--------------------------|-------------|------------------------|
| | | Number of points | Internal I/O common | Maximum value of load current | Rated voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | 16 points | NPN | 0.5 A/point, 2 A/Unit | 12 to 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 0.1 ms max./ 0.8 ms max. | NX-OD5121-5 | UC1, N, L, CE, RCM, KC |
| | | | PNP | | 24 VDC | | 0.5 ms max./ 1.0 ms max. | NX-OD5256-5 | |
| | | 32 points | NPN | 0.5 A/point, 2 A/common, 4 A/Unit | 12 to 24 VDC | | 0.1 ms max./ 0.8 ms max. | NX-OD6121-5 | |
| | | | PNP | | 24 VDC | | 0.5 ms max./ 1.0 ms max. | NX-OD6256-5 | |


• Transistor Output Unit (Fujitsu Connector, 30 mm Width)

| Unit type | Product name | Specification | | | | | | Model | Standards |
|-------------------------------|---|------------------|---------------------|-----------------------------------|---------------|--|--------------------------|-------------|------------------------|
| | | Number of points | Internal I/O common | Maximum value of load current | Rated voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | 32 points | NPN | 0.5 A/point, 2 A/common, 4 A/Unit | 12 to 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | 0.1 ms max./ 0.8 ms max. | NX-OD6121-6 | UC1, N, L, CE, RCM, KC |

● Relay Output Units (Screwless Clamping Terminal Block, 12 mm Width)


| Unit type | Product name | Specification | | | | | Model | Standards |
|-------------------------------|---|------------------|------------|---|-----------------------|---------------------------|-----------|------------------------------|
| | | Number of points | Relay type | Maximum switching capacity | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | 2 points | N.O. | 250 VAC/2 A (cosφ = 1), 250 VAC/2 A (cosφ = 0.4), 24 VDC/2 A, 4 A/Unit | Free-Run refreshing | 15 ms max./ 15 ms max. | NX-OC2633 | UC1, N, L, CE, RCM, KC |
| | | | N.O.+N.C. | | | | NX-OC2733 | UC1, N, CE, RCM, KC |

● Relay Output Unit (Screwless Clamping Terminal Block, 24 mm Width)


| Unit type | Product name | Specification | | | | | Model | Standards |
|-------------------------------|---|------------------|------------|--|-----------------------|---------------------------|-----------|-----------------------------------|
| | | Number of points | Relay type | Maximum switching capacity | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | 8 points | N.O. | 250 VAC/2 A (cosφ=1) 250 VAC/2 A (cosφ=0.4) 24 VDC/2 A 8 A/Unit | Free-Run refreshing | 15 ms max./ 15 ms max. | NX-OC4633 | UC1, N, L, CE, EAC, RCM, KC |

Digital Mixed I/O Units

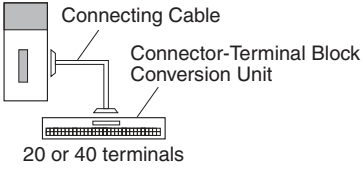
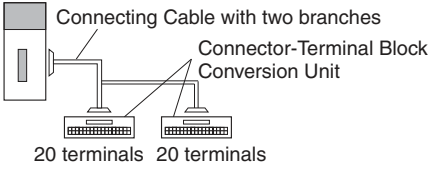
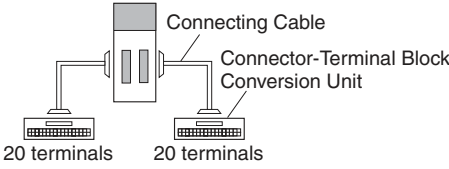
● DC Input/Transistor Output Units (MIL Connector, 30 mm Width)

| Unit type | Product name | Specification | | | | | Model | Standards |
|----------------------------------|---|---|---|---|---|--|-------------|------------------------------|
| | | Number of points | Internal I/O common | Rated voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Mixed I/O Unit |  | Outputs: 16 points Inputs: 16 points | Outputs: NPN Inputs: For both NPN/PNP | Outputs: 12 to 24 VDC Inputs: 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | Outputs: 0.1 ms max./ 0.8 ms max. Inputs: 20 μs max./ 400 μs max. | NX-MD6121-5 | UC1, N, L, CE, RCM, KC |
| | | | Outputs: PNP Inputs: For both NPN/PNP | Outputs: 24 VDC Inputs: 24 VDC | | Outputs: 0.5 ms max./ 1.0 ms max. Inputs: 20 μs max./ 400 μs max. | NX-MD6256-5 | |

● DC Input/Transistor Output Unit (Fujitsu Connector, 30 mm Width)

| Unit type | Product name | Specification | | | | | Model | Standards |
|-------------------------------|---|---|---|---|---|--|-------------|------------------------------|
| | | Number of points | Internal I/O common | Rated voltage | I/O refreshing method | ON/OFF response time | | |
| NX-series Digital Output Unit |  | Outputs: 16 points Inputs: 16 points | Outputs: NPN Inputs: For both NPN/PNP | Outputs: 12 to 24 VDC Inputs: 24 VDC | Switching Synchronous I/O refreshing and Free-Run refreshing | Outputs: 0.1 ms max./ 0.8 ms max. Inputs: 20 μs max./ 400 μs max. | NX-MD6121-6 | UC1, N, L, CE, RCM, KC |

Connection Patterns for Connector-Terminal Block Conversion Units

| Pattern | Configuration | Number of connectors | Branching |
|---------|--|----------------------|------------|
| A |  <p>Connecting Cable Connector-Terminal Block Conversion Unit 20 or 40 terminals</p> | 1 | None |
| B |  <p>Connecting Cable with two branches Connector-Terminal Block Conversion Unit 20 terminals 20 terminals</p> | | 2 branches |
| C |  <p>Connecting Cable Connector-Terminal Block Conversion Unit 20 terminals 20 terminals</p> | 2 | None |

Connections to Connector-Terminal Block Conversion Units

| Unit | I/O capacity | Number of connectors | Polarity | Connection pattern | Connecting Cable *1 | Connector-Terminal Block Conversion Unit | Wiring method | Common terminal |
|-------------|--------------|----------------------|----------|--------------------|---------------------|--|---------------------|-----------------|
| NX-ID5142-5 | 16 inputs | 1 MIL connector | NPN/ PNP | A | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | | XW2Z-□□□X | XW2D-20G6 | Phillips screw | None |
| NX-ID6142-5 | 32 inputs | 1 MIL connector | NPN/ PNP | A | XW2Z-□□□PM | XW2R-□34GD-C2 | Depends on model *3 | None |
| | | | | A | XW2Z-□□□K | XW2D-40G6 | Phillips screw | None |
| | | | | B | XW2Z-□□□N | XW2R-□20GD-T (2 Units) | Depends on model *3 | None |
| | | | | B | XW2Z-□□□N | XW2C-20G5-IN16 (2 Units) *2 | Phillips screw | Yes |
| | | | | B | XW2Z-□□□N | XW2C-20G6-IO16 (2 Units) | Phillips screw | Yes |
| | | | | B | XW2Z-□□□N | XW2D-20G6 (2 Units) | Phillips screw | None |
| | | | | B | XW2Z-□□□N | XW2E-20G5-IN16 (2 Units) *2 | Phillips screw | Yes |
| NX-ID6142-6 | 32 inputs | 1 Fujitsu connector | NPN/ PNP | A | XW2Z-□□□PF | XW2R-□34GD-C1 | Depends on model *3 | None |
| | | | | A | XW2Z-□□□B | XW2D-40G6 | Phillips screw | None |
| | | | | B | XW2Z-□□□D | XW2R-□20GD-T (2 Units) | Depends on model *3 | None |
| | | | | B | XW2Z-□□□D | XW2C-20G5-IN16 (2 Units) *2 | Phillips screw | Yes |
| | | | | B | XW2Z-□□□D | XW2C-20G6-IO16 (2 Units) | Phillips screw | Yes |
| | | | | B | XW2Z-□□□D | XW2D-20G6 (2 Units) | Phillips screw | None |
| | | | | B | XW2Z-□□□D | XW2E-20G5-IN16 (2 Units) *2 | Phillips screw | Yes |
| NX-OD5121-5 | 16 outputs | 1 MIL connector | NPN | A | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | A | XW2Z-□□□X | XW2D-20G6 | Phillips screw | None |
| NX-OD5256-5 | 16 outputs | 1 MIL connector | PNP | A | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | A | XW2Z-□□□X | XW2D-20G6 | Phillips screw | None |

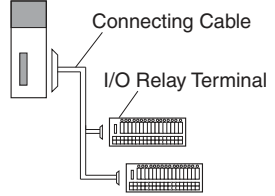
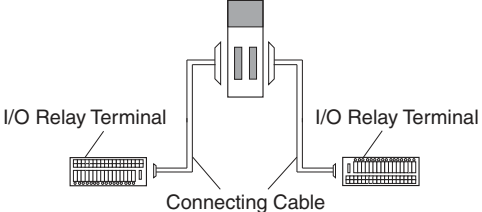
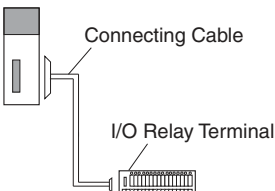
| Unit | I/O capacity | Number of connectors | Polarity | Connection pattern | Connecting Cable *1 | Connector-Terminal Block Conversion Unit | Wiring method | Common terminal |
|-------------|--------------|----------------------|-----------------|--------------------|---------------------|--|---------------------|---------------------|
| NX-OD6121-5 | 32 inputs | 1 MIL connector | NPN | A | XW2Z-□□□PM | XW2R-□34GD-C4 | Depends on model *3 | None |
| | | | | A | XW2Z-□□□K | XW2D-40G6 | Phillips screw | None |
| | | | | B | XW2Z-□□□N | XW2R-□20GD-T (2 Units) | Depends on model *3 | None |
| | | | | B | XW2Z-□□□N | XW2C-20G6-IO16 (2 Units) | Phillips screw | Yes |
| | | | | B | XW2Z-□□□N | XW2D-20G6 (2 Units) | Phillips screw | None |
| NX-OD6121-6 | 32 inputs | 1 Fujitsu connector | NPN | A | XW2Z-□□□PF | XW2R-□34GD-C3 | Depends on model *3 | None |
| | | | | A | XW2Z-□□□B | XW2D-40G6 | Phillips screw | None |
| | | | | B | XW2Z-□□□L | XW2R-□20GD-T (2 Units) | Depends on model *3 | None |
| | | | | B | XW2Z-□□□L | XW2C-20G6-IO16 (2 Units) | Phillips screw | Yes |
| | | | | B | XW2Z-□□□L | XW2D-20G6 (2 Units) | Phillips screw | None |
| NX-OD6256-5 | 32 inputs | 1 MIL connector | PNP | A | XW2Z-□□□PM | XW2R-□34GD-C4 | Depends on model *3 | None |
| | | | | A | XW2Z-□□□K | XW2D-40G6 | Phillips screw | None |
| | | | | B | XW2Z-□□□N | XW2R-□20GD-T (2 Units) | Depends on model *3 | None |
| | | | | B | XW2Z-□□□N | XW2C-20G6-IO16 (2 Units) | Phillips screw | Yes |
| | | | | B | XW2Z-□□□N | XW2D-20G6 (2 Units) | Phillips screw | None |
| NX-MD6121-5 | 16 outputs | 1 MIL connector | NPN/ PNP | C | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 | None |
| | 16 outputs | 1 MIL connector | NPN | C | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | C | XW2Z-□□□X | XW2D-20G6 | Phillips screw | None |
| NX-MD6121-6 | 16 outputs | 1 Fujitsu connector | NPN/ PNP | C | XW2Z-□□□A | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | C | XW2Z-□□□A | XW2C-20G5-IN16 *2 | Phillips screw | Yes |
| | | | | C | XW2Z-□□□A | XW2C-20G6-IO16 | Phillips screw | Yes |
| | | | | C | XW2Z-□□□A | XW2D-20G6 | Phillips screw | None |
| | | | | C | XW2Z-□□□A | XW2E-20G5-IN16 *2 | Phillips screw | Yes |
| | 16 outputs | 1 Fujitsu connector | NPN | C | XW2Z-□□□A | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | C | XW2Z-□□□A | XW2C-20G6-IO16 | Phillips screw | Yes |
| | | | | C | XW2Z-□□□A | XW2D-20G6 | Phillips screw | None |
| | NX-MD6256-5 | 16 outputs | 1 MIL connector | NPN/ PNP | C | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 |
| C | | | | | XW2Z-□□□X | XW2D-20G6 | Phillips screw | None |
| 16 outputs | | 1 MIL connector | PNP | C | XW2Z-□□□X | XW2R-□20GD-T | Depends on model *3 | None |
| | | | | C | XW2Z-□□□X | XW2D-20G6 | Phillips screw | None |

*1. □□□ in the model number indicates the cable length.

*2. The inputs are NPN. For PNP inputs, reverse the polarity of the external power supply connections to the power supply terminals on the Connector-Terminal Block Conversion Unit.

*3. The wiring methods vary depending on the Connector-Terminal Block Conversion Unit. □ in the model number indicates the wiring method.
 J = Phillips screw
 E = Slotted screw (rise up)
 P = Push-in spring

Connection Patterns for I/O Relay Terminals

| Pattern | Configuration | Number of connectors | Branching |
|---------|---|----------------------|------------|
| A |  | 1 | 2 branches |
| E |  | 2 | None |
| F |  | 1 | |


Connections to I/O Relay Terminals

| Unit | I/O capacity | Number of connectors | Polarity | Connecti on pattern | Connecting Cable * | Connector-Terminal Block Conversion Unit | Wiring method |
|-------------|--------------|----------------------|----------|---------------------|--------------------|--|----------------|
| NX-ID5142-5 | 16 inputs | 1 MIL connector | NPN/PNP | F | XW2Z-RO□C | G70V-SID16P(-1) | Push-in spring |
| | | | | F | XW2Z-RO□C | G7TC-ID16 | Phillips screw |
| | | | | F | XW2Z-RO□C | G7TC-IA16 | Phillips screw |
| NX-ID6142-5 | 32 inputs | 1 MIL connector | NPN/PNP | A | XW2Z-RO□□-D1 | G70V-SID16P(-1) (2 Units) | Push-in spring |
| | | | | A | XW2Z-RO□□-D1 | G7TC-ID16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□□-D1 | G7TC-IA16 (2 Units) | Phillips screw |
| NX-ID6142-6 | 32 inputs | 1 Fujitsu connector | NPN/PNP | A | XW2Z-RI□C-□ | G70V-SID16P(-1) (2 Units) | Push-in spring |
| | | | | A | XW2Z-RI□C-□ | G7TC-ID16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RI□C-□ | G7TC-IA16 (2 Units) | Phillips screw |
| NX-OD5121-5 | 16 outputs | 1 MIL connector | NPN | F | XW2Z-RO□C | G70V-SOC16P | Push-in spring |
| | | | | F | XW2Z-RO□C | G7TC-OC16 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70D-SOC16 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70D-VSOC16 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70D-FOM16 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70D-VFOM16 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70A-ZOC16-3 and Relay | Phillips screw |
| NX-OD5256-5 | 16 outputs | 1 MIL connector | PNP | F | XW2Z-RO□C | G70V-SOC16P-1 | Push-in spring |
| | | | | F | XW2Z-RI□C | G7TC-OC16-1 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70D-SOC16-1 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70D-FOM16-1 | Phillips screw |
| | | | | F | XW2Z-RO□C | G70A-ZOC16-4 and Relay | Phillips screw |

| Unit | I/O capacity | Number of connectors | Polarity | Connecti on pattern | Connecting Cable * | Connector-Terminal Block Conversion Unit | Wiring method |
|-------------|--------------|------------------------|----------------|---------------------|--------------------|--|----------------|
| NX-OD6121-5 | 32 inputs | 1 MIL connector | NPN | A | XW2Z-RO□-□-D1 | G70V-SOC16P (2 Units) | Push-in spring |
| | | | | A | XW2Z-RO□-□-D1 | G7TC-OC16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70D-SOC16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70D-FOM16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70D-VSOC16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70D-VFOM16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70A-ZOC16-3 and Relay (2 Units) | Phillips screw |
| NX-OD6121-6 | 32 inputs | 1 Fujitsu connector | NPN | A | XW2Z-RO□C-□ | G70V-SOC16P (2 Units) | Push-in spring |
| | | | | A | XW2Z-RO□C-□ | G7TC-OC16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□C-□ | G70D-SOC16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□C-□ | G70D-FOM16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□C-□ | G70D-VSOC16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□C-□ | G70D-VFOM16 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□C-□ | G70A-ZOC16-3 and Relay (2 Units) | Phillips screw |
| NX-OD6256-5 | 32 inputs | 1 MIL connector | PNP | A | XW2Z-RO□-□D1 | G70V-SOC16P-1 (2 Units) | Push-in spring |
| | | | | A | XW2Z-RI□-□-D1 | G7TC-OC16-1 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70D-SOC16-1 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70D-FOM16-1 (2 Units) | Phillips screw |
| | | | | A | XW2Z-RO□-□-D1 | G70A-ZOC16-4 and Relay (2 Units) | Phillips screw |
| NX-MD6121-5 | 16 inputs | 1 MIL connector | NPN/PNP | E | XW2Z-RO□C | G70V-SID16P(-1) | Push-in spring |
| | | | | E | XW2Z-RO□C | G7TC-ID16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G7TC-IA16 | Phillips screw |
| | 16 outputs | 1 MIL connector | NPN | E | XW2Z-RO□C | G70V-SOC16P | Push-in spring |
| | | | | E | XW2Z-RO□C | G7TC-OC16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G70D-SOC16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G70D-FOM16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G70D-VSOC16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G70D-VFOM16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G70A-ZOC16-3 and Relay | Phillips screw |
| NX-MD6121-6 | 16 inputs | 1 Fujitsu connector | NPN/PNP | E | XW2Z-R□C | G70V-SID16P(-1) | Push-in spring |
| | | | | E | XW2Z-R□C | G7TC-ID16 | Phillips screw |
| | | | | E | XW2Z-R□C | G7TC-IA16 | Phillips screw |
| | 16 outputs | 1 Fujitsu connector | NPN | E | XW2Z-R□C | G70V-SOC16P | Push-in spring |
| | | | | E | XW2Z-R□C | G7TC-OC16 | Phillips screw |
| | | | | E | XW2Z-R□C | G70D-SOC16 | Phillips screw |
| | | | | E | XW2Z-R□C | G70D-FOM16 | Phillips screw |
| | | | | E | XW2Z-R□C | G70D-VSOC16 | Phillips screw |
| | | | | E | XW2Z-R□C | G70D-VFOM16 | Phillips screw |
| | | | | E | XW2Z-R□C | G70A-ZOC16-3 and Relay | Phillips screw |
| NX-MD6256-5 | 16 inputs | 1 MIL connector | NPN/PNP | E | XW2Z-RO□C | G70V-SID16P(-1) | Push-in spring |
| | | | | E | XW2Z-RO□C | G7TC-IA16 | Phillips screw |
| | | | | E | XW2Z-RO□C | G7TC-ID16 | Phillips screw |
| | 16 outputs | 1 MIL connector | PNP | E | XW2Z-RI□C | G70V-SOC16P-1 | Push-in spring |
| | | | | E | XW2Z-RO□C | G7TC-OC16-1 | Phillips screw |
| | | | | E | XW2Z-RI□C | G70D-SOC16-1 | Phillips screw |
| | | | | E | XW2Z-RI□C | G70D-FOM16-1 | Phillips screw |
| E | XW2Z-RI□C | G70A-ZOC16-4 and Relay | Phillips screw | | | | |

Note: 1. For other models and specifications that are not listed above, refer to the datasheets.
 2. The G70V Series includes models that provide internal connections.
 3. The G70A is a socket only. Mountable relays and timers are sold separately.
 * □ in the model number indicates the cable length.



High-speed Analog Input Units

| Unit type | Product name | Specification | | | | | | | | Model | Standards |
|---|---|------------------|--|--|--------------------|------------------|-----------------------|---------------------|----------------------------|-----------|-----------------------|
| | | Number of points | Input range | Resolution | Input method | Conversion time | Trigger input section | | I/O refreshing method | | |
| | | | | | | | Number of points | Internal I/O common | | | |
| NX Series High-speed Analog Input Units |  | 4 points | -10 to +10V -5 to +5V 0 to 10V 0 to 5V 1 to 5V 0 to 20mA 4 to 20mA | <ul style="list-style-type: none"> Input range of -10 to 10 V or -5 to 5 V: 1/64,000 (full scale) Other input range: 1/32,000 (full scale) | Differential input | 5 μs per channel | 4 | NPN | Synchronous I/O refreshing | NX-HAD401 | UC1, CE, RCM, KC, EAC |
| | | | | | | | | PNP | | NX-HAD402 | |

Analog Input Units



| Unit type | Product name | Specification | | | | | | | | | Model | Standards |
|-----------------------------|--------------------|--------------------|-----------------|--------------------|--|--|--------------------|--------------------|---------------------|-----------------------|---------------------|------------------------|
| | | Number of points | Input range | Resolution | Conversion value, decimal number (0 to 100%) | Over all accuracy (25°C) | Input method | Conversion time | Input impedance | I/O refreshing method | | |
| NX-series Analog Input Unit | Voltage Input type | 2 points | -10 to +10 V | 1/8000 | -4000 to 4000 | ±0.2% (full scale) | Single-ended input | 250 μs/point | 1 MΩ min. | Free-Run refreshing | NX-AD2603 | UC1, N, L, CE, RCM, KC |
| | | | | Differential input | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-AD2604 | | | | | |
| | | | | 1/30000 | | | -15000 to 15000 | ±0.1% (full scale) | | | Differential input | |
| | | | | 1/8000 | -4000 to 4000 | ±0.2% (full scale) | Single-ended input | 250 μs/point | | | Free-Run refreshing | |
| | | Differential input | | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-AD3604 | | | | | | |
| | | 1/30000 | | | | -15000 to 15000 | ±0.1% (full scale) | Differential input | | 10 μs/point | NX-AD3608 | |
| | | 8 points | | 1/8000 | -4000 to 4000 | ±0.2% (full scale) | Single-ended input | 250 μs/point | | | Free-Run refreshing | |
| | | | | Differential input | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-AD4604 | | | | | |
| | 1/30000 | | -15000 to 15000 | ±0.1% (full scale) | | | Differential input | 10 μs/point | NX-AD4608 | | | |
| | Current Input type | | 2 points | 4 to 20 mA | 1/8000 | 0 to 8000 | ±0.2% (full scale) | | Single-ended input | 250 μs/point | 250 Ω | |
| | | Differential input | | | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-AD2204 | | | | | |
| | | 1/30000 | | | | | 0 to 30000 | ±0.1% (full scale) | Differential input | 10 μs/point | | |
| | | 1/8000 | | | 0 to 8000 | ±0.2% (full scale) | Single-ended input | 250 μs/point | Free-Run refreshing | | | |
| | | Differential input | 10 μs/point | | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-AD3204 | | | | | | |
| | | 1/30000 | | | | 0 to 30000 | ±0.1% (full scale) | Differential input | 10 μs/point | NX-AD3208 | | |
| | | 8 points | 1/8000 | | 0 to 8000 | ±0.2% (full scale) | Single-ended input | 250 μs/point | | Free-Run refreshing | | |
| Differential input | | | 10 μs/point | | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-AD4204 | | | | | | |
| 1/30000 | 0 to 30000 | | | ±0.1% (full scale) | | Differential input | 10 μs/point | NX-AD4208 | | | | |
| | | | | | | 85 Ω | | | | | | |

Analog Output Units



| Unit type | Product name | Specification | | | | | | | Model | Standards | |
|------------------------------|--|------------------|--------------|------------|--|--------------------------|--------------------|--|--|-----------------------|-----------|
| | | Number of points | Input range | Resolution | Output setting value, decimal number (0 to 100%) | Over all accuracy (25°C) | Conversion time | I/O refreshing method | | | |
| NX-series Analog Output Unit | Voltage Output type  | 2 points | -10 to +10 V | 1/8000 | -4000 to 4000 | ±0.3% (full scale) | 250 μs/point | Free-Run refreshing | NX-DA2603 | UC1,N, L, CE, RCM, KC | |
| | | | | 1/30000 | -15000 to 15000 | ±0.1% (full scale) | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-DA2605 | | |
| | | 4 points | | 1/8000 | -4000 to 4000 | ±0.3% (full scale) | 250 μs/point | Free-Run refreshing | NX-DA3603 | | |
| | | | | 1/30000 | -15000 to 15000 | ±0.1% (full scale) | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | NX-DA3605 | | |
| | Current Output type  | 2 points | | 4 to 20 mA | 1/8000 | 0 to 8000 | ±0.3% (full scale) | 250 μs/point | Free-Run refreshing | | NX-DA2203 |
| | | | | | 1/30000 | 0 to 30000 | ±0.1% (full scale) | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | | NX-DA2205 |
| | | 4 points | | | 1/8000 | 0 to 8000 | ±0.3% (full scale) | 250 μs/point | Free-Run refreshing | | NX-DA3203 |
| | | | | | 1/30000 | 0 to 30000 | ±0.1% (full scale) | 10 μs/point | Selectable Synchronous I/O refreshing or Free-Run refreshing | | NX-DA3205 |

Temperature Control Units/Temperature Input Units/Heater Burnout Detection Units

• Temperature Control Units

| Unit type | Product name | Specification | | | | | | | Model | Standards | | |
|------------------------------------|--|--------------------|---|----------------------------------|----------------------------------|-----------------------|-----------------------------|-----------------|---------------------|-----------------------------|-----------------------|------------------|
| | | Number of channels | Input type | Output | Output capacity | CT Input capacity | Control type | Conversion time | | | I/O refreshing method | |
| NX Series Temperature Control Unit | Temperature Control Unit 2Ch type  | 2 Ch | Multi-input (Thermocouple and Resistance thermometer) | Voltage output (for driving SSR) | 2 points | 2 points | Standard Control | 50 m sec | Free-Run refreshing | NX-TC2405 | UC1, CE, RCM, KC, EAC | |
| | | | | | | None | Standard Control | | | NX-TC2406 | | |
| | | | | Voltage output (for driving SSR) | 4 points | None | Heating and Cooling Control | | | NX-TC2407 | | |
| | | | | | | Linear current output | 2 points | | | None | | Standard Control |
| | Temperature Control Unit 4Ch type  | | | 4 Ch | Voltage output (for driving SSR) | 4 points | 4 points | | | Standard Control | | NX-TC3405 |
| | | | | | | | None | | | Standard Control | | NX-TC3406 |
| | | | | | Voltage output (for driving SSR) | 8 points | None | | | Heating and Cooling Control | | NX-TC3407 |
| | | | | | | | Linear current output | | | 4 points | | None |


• Temperature Input Units

| Unit type | Product name | Specification | | | | | | | Model | Standards |
|----------------------------------|--|------------------|--|-------------------|--|------------------|-----------------------|------------------|-----------|------------------------|
| | | Number of points | Input type | Resolution (25°C) | Over all accuracy (25°C) | Conversion time | I/O refreshing method | Terminals | | |
| NX-series Temperature Input Unit |  Thermocouple Input type | 2 points | Thermocouple | 0.1°C max. *1 | Refer to your OMRON website for details. | 250 ms/Unit | Free-Run refreshing | 16 Terminals | NX-TS2101 | UC1, N, L, CE, RCM, KC |
| | | 4 points | | | | | | 16 Terminals x 2 | NX-TS3101 | |
| | | 2 points | | 0.01°C max. | | 10 ms/Unit | | 16 Terminals | NX-TS2102 | |
| | | 4 points | | | | 16 Terminals x 2 | | NX-TS3102 | | |
| | | 2 points | | 0.001°C max. | | 60 ms/Unit | | 16 Terminals | NX-TS2104 | |
| | | 4 points | | | | | | 16 Terminals x 2 | NX-TS3104 | |
| |  Resistance Thermometer Input type | 2 points | Resistance Thermometer (Pt100/Pt1000, three-wire) *2 | 0.1°C max. | Refer to your OMRON website for details. | 250 ms/Unit | Free-Run refreshing | 16 Terminals | NX-TS2201 | |
| | | 4 points | | 16 Terminals x 2 | | | | NX-TS3201 | | |
| | | 2 points | | 0.01°C max. | | 10 ms/Unit | | 16 Terminals | NX-TS2202 | |
| | | 4 points | | | | | | 16 Terminals x 2 | NX-TS3202 | |
| | | 2 points | | 0.001°C max. | | 60 ms/Unit | | 16 Terminals | NX-TS2204 | |
| | | 4 points | | | | | | 16 Terminals x 2 | NX-TS3204 | |

*1. The resolution is 0.2°C max. when the input type is R, S, or W.

*2. The NX-TS2202 and NX-TS3202 only support Pt100 three-wire sensor.

• Heater Burnout Detection Units


| Unit type | Product name | Specification | | | | | | | Model | Standards |
|---|--|------------------|------------------------|------------------------|---------------------|-------------------------|---------------|-----------------------|-----------|------------------------|
| | | CT input section | | Control output section | | | | I/O refreshing method | | |
| | | Number of inputs | Maximum heater current | Number of outputs | Internal I/O common | Maximum load current | Rated voltage | | | |
| NX-series Heater Burnout Detection Unit |  Heater Burnout Detection Unit | 4 | 50 A AC | 4 | NPN | 0.1 A/point, 0.4 A/Unit | 12 to 24 VDC | Free-Run refreshing | NX-HB3101 | UC1, N, L, CE, RCM, KC |
| | | | | | PNP | | 24 VDC | | NX-HB3201 | |

• Optional Products

| Product name | Specification | Model | Standards |
|---------------------------------|---|------------|-----------|
| Unit/Terminal Block Coding Pins | Pins for 10 Units (30 terminal block pins and 30 Unit pins) | NX-AUX02 | --- |
| Product name | Specification | Model | Standards |
| Current Transformer (CT) | Hole diameter: 5.8 mm | E54-CT1 | --- |
| | Hole diameter: 5.8 mm | E54-CT1L * | --- |
| | Hole diameter: 12.0 mm | E54-CT3 | --- |
| | Hole diameter: 12.0 mm | E54-CT3L * | --- |

* Lead wires are included with these CTs. If UL certification is required, use these CTs.


Load Cell Input Unit

| Unit type | Product name | Specification | | | | | Model | Standards |
|--------------------------------|---|------------------|------------------|---|------------------------------|------------------|------------------|------------------------|
| | | Number of points | Conversion cycle | I/O refreshing method * | Load cell excitation voltage | Input range | | |
| NX-series Load Cell Input Unit |  | 1 | 125 μ s | <ul style="list-style-type: none"> Free-Run refreshing Synchronous I/O refreshing Task period prioritized refreshing | 5 VDC \pm 10% | -5.0 to 5.0 mV/V | NX-RS1201 | UC1, N, L, CE, RCM, KC |


Note: The NX-RS1201-K Load Cell Input Unit with the test and calibration certificate is also available. Ask your OMRON representative for details.

Position Interface Units


• Incremental Encoder Input Units

| Unit type | Product name | Specification | | | | | | Model | Standards |
|-----------------------------------|---|--------------------|-----------------|----------------------------|---|------------------------------|---------------------|------------------|------------------------|
| | | Number of channels | External inputs | Maximum response frequency | I/O refreshing method | Number of I/O entry mappings | Remarks | | |
| NX-series Position Interface Unit |  | 1 (NPN) | 3 (NPN) | 500 kHz | <ul style="list-style-type: none"> Free-Run refreshing Synchronous I/O refreshing | 1/1 | 24-V voltage input | NX-EC0112 | UC1, N, CE, RCM, KC |
| | | 1 (PNP) | 3 (PNP) | | | | | NX-EC0122 | UC1, N, L, CE, RCM, KC |
| | | 1 | 3 (NPN) | 4 MHz | | | Line receiver input | NX-EC0132 | UC1, N, CE, RCM, KC |
| | | | 3 (PNP) | | | | | NX-EC0142 | UC1, N, L, CE, RCM, KC |
| | | 2 (NPN) | None | 500 kHz | | | 24-V voltage input | NX-EC0212 | UC1, N, CE, RCM, KC |
| | | 2 (PNP) | | | | | | NX-EC0222 | UC1, N, L, CE, RCM, KC |

• SSI Input Units

| Unit type | Product name | Specification | | | | | Model | Standards |
|-----------------------------------|---|--------------------|-----------------------|---------------------|----------------------|---|------------------|------------------------|
| | | Number of channels | Input/Output form | Maximum data length | Encoder power supply | Type of external connections | | |
| NX-series Position Interface Unit |  | 1 | EIA standard RS-422-A | 32 bits | 24 VDC, 0.3 A/CH | Screwless push-in terminal block (12 terminals) | NX-ECS112 | UC1, N, L, CE, RCM, KC |
| | | 2 | EIA standard RS-422-A | 32 bits | 24 VDC, 0.3 A/CH | Screwless push-in terminal block (12 terminals) | NX-ECS212 | UC1, N, L, CE, RCM, KC |

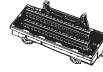
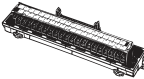





• Pulse Output Units

| Unit type | Product name | Specification | | | | | | | Model | Standards |
|---|---|-----------------------|-------------------|--------------------|----------------------------|---|------------------------------|--------------------------|-------------|------------------------|
| | | Number of channels *1 | External inputs | External outputs | Maximum pulse output speed | I/O refreshing method | Number of I/O entry mappings | Control output interface | | |
| NX-series Position Interface Unit |  | 1 (NPN) | 2 (NPN) | 1 (NPN) | 500 kpps | • Synchronous I/O refreshing • Task period prioritized refreshing *2 | 1/1 | Open collector output | NX-PG0112 | UC1, N, CE, RCM, KC |
| | | 1 (PNP) | 2 (PNP) | 1 (PNP) | | | | | NX-PG0122 | UC1, N, L, CE, RCM, KC |
| | | 2 | 5 inputs/CH (NPN) | 3 outputs/CH (NPN) | 4 Mpps | | 2/2 | Line driver output | NX-PG0232-5 | UC1, CE, RCM, KC |
| | | | 5 inputs/CH (PNP) | 3 outputs/CH (PNP) | | | | | NX-PG0242-5 | |
| | | 4 | 5 inputs/CH (NPN) | 3 outputs/CH (NPN) | | | 4/4 | Line driver output | NX-PG0332-5 | |
| | | | 5 inputs/CH (PNP) | 3 outputs/CH (PNP) | | | | | NX-PG0342-5 | |

*1. This is the number of pulse output channels.


*2. Unit version 1.2 or later and an NX-ECC203 EtherCAT Coupler Unit are required.

Cables and Connectors for Line Driver Output Units with MIL Connectors


| Product name | Specifications | Model | Standards | | |
|--|---|--|---------------------|------------|-----|
| Connector-Terminal Block Conversion Unit | Flat Cable Connectors type (Terminal block with M3 screws) 34 terminals |  | XW2B-34G4 | --- | |
| | Flat Cable Connectors type (Terminal block with M3.5 screws) 34 terminals |  | XW2B-34G5 | --- | |
| | MIL Connectors type (Slim Connector) 34 terminals |  | XW2D-34G6 | --- | |
| | MIL Connectors type (Phillips screw) 34 terminals |  | XW2R-J34GD-T | --- | |
| | MIL Connectors type (Slotted screw (rise up)) 34 terminals |  | XW2R-E34GD-T | --- | |
| | MIL Connectors type (Push-in spring) 34 terminals |  | XW2R-P34GD-T | --- | |
| Cable for Connector-Terminal Block Conversion Unit | 34-terminal MIL Connector to 34-terminal MIL Connector |  | Cable length: 0.5 m | XW2Z-050EE | --- |
| | | | Cable length: 1 m | XW2Z-100EE | |
| | | | Cable length: 1.5 m | XW2Z-150EE | |
| | | | Cable length: 2 m | XW2Z-200EE | |
| | | | Cable length: 3 m | XW2Z-300EE | |
| | | | Cable length: 5 m | XW2Z-500EE | |

Note: Each of NX-PG0232-5 and NX-PG0242-5 has one MIL connector. Therefore, one Connector-Terminal Block Conversion Unit is required.
Each of NX-PG0332-5 and NX-PG0342-5 has two MIL connectors. Therefore, two Connector-Terminal Block Conversion Units are required.

Communications Interface Units


| Unit type | Product name | Serial interface | External connection terminals | Number of serial ports | Communications function | Model | Standards |
|---|---|------------------|-----------------------------------|------------------------|--|-----------|-----------------------|
| NX-series Communications Interface Unit |  | RS-232C | Screwless clamping terminal block | 1 port | • No-protocol serial communications • Serial line monitor | NX-CIF101 | UL, N, L, CE, RCM, KC |
| | | RS-422A/485 | | | | NX-CIF105 | |
| | | RS-232C | D-Sub connector | 2 ports | | NX-CIF210 | |

IO-Link Master Unit


| Unit type | Product name | Specification | | | Model | Standards |
|-------------------------------|---|-------------------------|-----------------------|-----------------------------------|-----------|------------------------|
| | | Number of IO-Link ports | I/O refreshing method | I/O connection terminals | | |
| NX-series IO-Link Master Unit |  | 4 | Free-Run refreshing | Screwless clamping terminal block | NX-ILM400 | UC1, N, L, CE, RCM, KC |

System Units

• Additional NX Unit Power Supply Unit


| Unit type | Product name | Power supply voltage | NX bus power supply capacity | Model | Standards |
|-----------------------|---|------------------------------|------------------------------|-----------|------------------------|
| NX-series System Unit |  | 24 VDC (20.4 to 28.8 VDC) | 10 W max. | NX-PD1000 | UC1, N, L, CE, RCM, KC |

• Additional I/O Power Supply Units


| Unit type | Product name | Power supply voltage | I/O power feed maximum current | Model | Standards |
|-----------------------|---|----------------------------------|--------------------------------|-----------|------------------------|
| NX-series System Unit |  | 5 to 24 VDC (4.5 to 28.8 VDC) | 4 A | NX-PF0630 | UC1, N, L, CE, RCM, KC |
| | | | 10 A * | NX-PF0730 | |

* Use the NX-PF0730 at 4 A or less on the CPU Rack where the NX1P2 CPU Unit is mounted.

• I/O Power Supply Connection Units

| Unit type | Product name | Number of I/O power terminals | Current capacity of I/O power terminal | Model | Standards |
|-----------------------|---|--------------------------------------|--|-----------|------------------------|
| NX-series System Unit |  | IOG: 16 terminals | 4 A/terminal max. | NX-PC0010 | UC1, N, L, CE, RCM, KC |
| | | IOV: 16 terminals | 4 A/terminal max. | NX-PC0020 | UC1, N, L, CE, RCM, KC |
| | | IOV: 8 terminals IOG: 8 terminals | 4 A/terminal max. | NX-PC0030 | UC1, N, L, CE, RCM, KC |

• Shield Connection Unit

| Unit type | Product name | Number of shield terminals | Model | Standards |
|-----------------------|---|--|----------|------------------------|
| NX-series System Unit |  | 14 terminals (The two lower terminals are functional ground terminals.) | NX-TBX01 | UC1, N, L, CE, RCM, KC |

Optional Products and Maintenance Products

| Product name | Specification | Model | Standards |
|--|--|-----------------|-----------|
| Unit/Terminal Block Coding Pins | For 10 Units (Terminal Block: 30 pins, Unit: 30 pins) | NX-AUX02 | --- |
| End Cover | One End Cover is provided as a standard accessory with the Communication Coupler Unit. | NX-END01 | --- |
| DIN Track Insulation Spacer | A Spacer to insulate the control panel from the DIN Track. To insulate the Slave Terminal from the control panel, use Din Track Insulation Spacers. | NX-AUX01 | --- |

| 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 | --- |
| | 12 | A/B | | | NX-TBA122 | |
| | 16 | A/B | | | NX-TBA162 | |
| | 12 | C/D | | | NX-TBB122 | |
| | 16 | C/D | NX-TBB162 | | | |
| | 8 | A/B | Provided | | NX-TBC082 | |
| | 16 | A/B | | | NX-TBC162 | |

OMRON AUTOMATION AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE

México DF • 52.55.59.01.43.00 • 01-800-226-6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

Apodaca, N.L. • 52.81.11.56.99.20 • 01-800-226-6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ARGENTINA • SALES OFFICE

Cono Sur • 54.11.4783.5300

OTHER OMRON LATIN AMERICA SALES

54.11.4783.5300

Authorized Distributor:

Controllers & I/O

- Machine Automation Controllers (MAC) • Motion Controllers
- Programmable Logic Controllers (PLC) • Temperature Controllers • Remote I/O

Robotics

- Industrial Robots • Mobile Robots

Operator Interfaces

- Human Machine Interface (HMI)

Motion & Drives

- Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
- Frequency Inverters

Vision, Measurement & Identification

- Vision Sensors & Systems • Measurement Sensors • Auto Identification Systems

Sensing

- Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
- Rotary Encoders • Ultrasonic Sensors

Safety

- Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
- Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
- Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components

- Power Supplies • Timers • Counters • Programmable Relays
- Digital Panel Meters • Monitoring Products

Switches & Relays

- Limit Switches • Pushbutton Switches • Electromechanical Relays
- Solid State Relays

Software

- Programming & Configuration • Runtime