NX-series Digital Output Units NX-OD/OC

A Wide Range of Digital Output Units from General Purpose use to High-Speed Synchronous Control

- Transistor and relay Output Units for the NX-series modular I/O system.
- Connect to other NX-series I/O Units and EtherCAT Coupler units using the high-speed NX-bus.
- Synchronous Units update their output status according to the controller's instructions every EtherCAT cycle.



Features

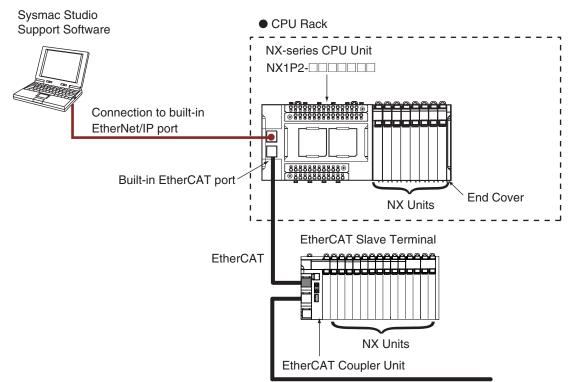
- High-speed I/O refreshing is possible by connecting with the NX-series EtherCAT Coupler.
- Output refreshing can be synchronized with the control cycle of the Controller. (Synchronous refreshing)
- ON/OFF response time of the high-speed model is 300 ns max, which enables high-speed, high-precision control.
- The screwless terminal block is detachable for easy commissioning and maintenance.
- Screwless clamp terminal block and Connector types (Units with MIL/Fujitsu Connectors) are significantly reduces wiring work.
- Up to 16 digital outputs in a space-saving 12 mm width. (Connector Types 30 mm width)
- The lineup includies 2-point, 4-point, 8-point, 16-point, and 32-point types with 3-wire, 2-wire and 1-wire connection methods.
- With output refreshing with specified time stamp, the Output Unit refreshes outputs at the time specified by the program. This enables highprecision output control independent of the control cycle of the Controller.
- Connection to the CJ-series is possible by connecting with the EtherNet/IP[™] Coupler.

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System Configuration

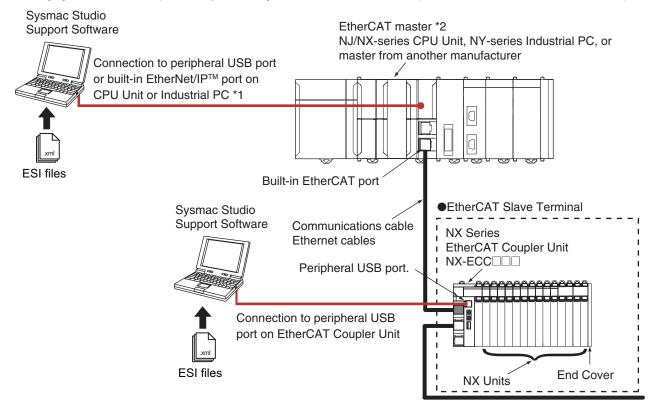
System Configuration in the Case of a CPU Unit

The following figure shows a system configuration when a group of NX Units is connected to an NX-series CPU Unit.



System Configuration of Slave Terminals

The following figure shows an example of the system configuration when an EtherCAT Coupler Unit is used as a Communications Coupler Unit.



- *1. The connection method for the Sysmac Studio depends on the model of the CPU Unit or Industrial PC.
- *2. An EtherCAT Slave Terminal cannot be connected to any of the OMRON CJ1W-NC 81/82 Position Control Units even though they can operate as EtherCAT masters.
- Note: For whether NX Units can be connected to the CPU Unit or Communications Coupler Unit to be used, refer to the user's manual for the CPU Unit or Communications Coupler Unit to be used.

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

Digital Output Units ● Transistor Output Unit (Screwless Clamping Terminal Block, 12 mm Width)

					Spec	ification			
Unit type	Product name	Number of points	Internal I/O common	Maximum value of load current	Rated voltage	I/O refreshing method	ON/OFF response time	Model	Standards
		0 nointe	NPN	0.5 A/point, 1 A/Unit 2	24 VDC	Output refreshing with specified time	300 ns max./	NX-OD2154	
		2 points	PNP		24 VDC	stamp only*	300 ns max.	NX-OD2258	
			NPN		12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD3121	UC1, N, L,
	Transistor Output Unit	utput	INPIN	0.5 A/point, 2 A/Unit	24 VDC	Switching Synchronous I/O refreshing and Free-Run refreshing	300 ns max./ 300 ns max.	NX-OD3153	CE, RCM, KC
NX-series			PNP				0.5 ms max./ 1.0 ms max.	NX-OD3256	-
Digital Output							300 ns max./ 300 ns max.	NX-OD3257	-
Unit				2 A/point, 8 A/Unit			0.5 ms max./ 1.0 ms max.	NX-OD3268	UC1, CE, RCM, KC
		9 pointo	NPN		12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD4121	
		8 points	PNP	0.5 A/point,	24 VDC		0.5 ms max./ 1.0 ms max.	NX-OD4256	UC1, N, L, CE, RCM,
			NPN	4 A/Unit	12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD5121	KC
		16 points	PNP		24 VDC		0.5 ms max./ 1.0 ms max.	NX-OD5256	1

* 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)

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

Transistor Output Units (MIL Connector, 30 mm Width)

					Spec	ification			
Unit type Produc name		Number of points	Internal I/O common	Maximum value of load current	Rated voltage	I/O refreshing method	ON/OFF response time	Model	Standards
Output		16 points	NPN	0.5 A/point,	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, CE, RCM, KC
NX-series	Unit		PNP	2 A/Unit	24 VDC		0.5 ms max./ 1.0 ms max.	NX-OD5256-5	
Output Unit		32 points	NPN	0.5 A/point,	12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD6121-5	
Unit			PNP	2 A/common, 4 A/Unit	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	Number of points	Internal I/O common	Maximum value of load current	Rated voltage	I/O refreshing method	ON/OFF response time	Model	Standards
NX-series Digital Output Unit	Transistor 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, CE, RCM, KC

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

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

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

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

Optional Products

Product name		Specification				Standards
Unit/Terminal Block Coding Pins	For 10 Units (Terminal Block:	For 10 Units (Terminal Block: 30 pins, Unit: 30 pins)				
	Specification					
Product name	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity	Model	Standards
	8		None		NX-TBA082	
Terminal Block	12	A/B		10 A	NX-TBA122	
	16				NX-TBA162	

Accessories

Not included.

Pattern	Configuration	Number of connectors	Branching
A	Connecting Cable Connector-Terminal Block Conversion Unit 20 or 40 terminals		None
В	Connecting Cable with two branches Connector-Terminal Block Conversion Unit 20 terminals 20 terminals		2 branches

Connection Patterns for Connector-Terminal Block Conversion Units

Connections to Connector-Terminal Block Conversion Units

Unit	I/O capacity	Number of connectors	Polarity	Connection pattern	Number of branches	Connecting Cable	Connector-Terminal Block Conversion Unit	Common terminal
				A	None	XW2Z-DDDX	XW2B-20G4	None
NX-OD5121-5	16 outputs	1 MIL	NPN	A	None	XW2Z-DDDX	XW2B-20G5	None
NA-0D5121-5	To outputs	connector		A	None	XW2Z-DDDX	XW2D-20G6	None
				A	None	XW2Z-DDDX	XW2R-J20G-T	None
				A	None	XW2Z-DDDX	XW2B-20G4	None
NX-OD5256-5 16 outputs	16 outputo	1 MIL	PNP	A	None	XW2Z-DDDX	XW2B-20G5	None
	connector	PNP	A	None	XW2Z-DDDX	XW2D-20G6	None	
				A	None	XW2Z-DDDX	XW2R-J20G-T	None
				А	None	XW2Z-□□□K	XW2B-40G4	None
				Α	None	XW2Z-🗆 🗆 K	XW2B-40G5	None
				Α	None	XW2Z-🗆 🗆 K	XW2D-40G6	None
				A	None	XW2Z-🗆 🗆 K	XW2R-J40G-T	None
	00	1 MIL	NIDNI	В	2	XW2Z-	XW2B-20G4 (2 Units)	None
NX-OD6121-5	32 outputs	connector	NPN	В	2	XW2Z-DDDN	XW2B-20G5 (2 Units)	None
				В	2	XW2Z-DDDN	XW2C-20G6-IO16 (2 Units)	Yes
				В	2	XW2Z-	XW2D-20G6 (2 Units)	None
				В	2	XW2Z-DDDN	XW2F-20G7-OUT16 (2 Units)	Yes
				В	2	XW2Z-DDDN	XW2R-J20G-T (2 Units)	None
				Α	None	XW2Z-🗆 🗆 🛛 🛛 🛛 🗠	XW2B-40G4	None
				A	None	XW2Z-	XW2B-40G5	None
				Α	None	XW2Z-🗆 🗆 🛛 🛛 🛛 🗠	XW2D-40G6	None
				Α	None	XW2Z-🗆 🗆 🛛 🛛 🛛 🗠	XW2R-J40G-T	None
				Α	None	XW2Z-DDBU	XW2D-40C6	None
NX-OD6121-6	32 outputs	1 Fujitsu connector	NPN	В	2	XW2Z-DDDL	XW2B-20G4 (2 Units)	None
		connector		В	2	XW2Z-DDDL	XW2B-20G5 (2 Units)	None
				В	2	XW2Z-DDDL	XW2C-20G6-IO16 (2 Units)	Yes
				В	2	XW2Z-DDL	XW2D-20G6 (2 Units)	None
				В	2	XW2Z-DDDL	XW2F-20G7-OUT16 (2 Units)	Yes
				В	2	XW2Z-DDDL	XW2R-J20G-T (2 Units)	None
				А	None	XW2Z-🗆 🗆 K	XW2B-40G4	None
				Α	None	XW2Z-DDDK	XW2B-40G5	None
				Α	None	XW2Z-🗆 🗆 K	XW2D-40G6	None
				Α	None	XW2Z-🗆 🗆 K	XW2R-J40G-T	None
		1 MIL		В	2	XW2Z-	XW2B-20G4 (2 Units)	None
NX-OD6256-5	32 outputs	connector	PNP	В	2	XW2Z-DDDN	XW2B-20G5 (2 Units)	None
				В	2	XW2Z-DDDN	XW2C-20G6-IO16 (2 Units)	Yes
				В	2	XW2Z-DDDN	XW2D-20G6 (2 Units)	None
				В	2	XW2Z-DDDN	XW2F-20G7-OUT16 (2 Units)	Yes
				В	2	XW2Z-DDDN	XW2R-J20G-T (2 Units)	None

General Specification

	Item	Specification		
Enclosure		Mounted in a panel		
Grounding n	nethod	Ground to 100 Ω or less		
	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.		
Operating	Noise immunity	2 kV on power supply line (Conforms to IEC61000-4-4.)		
environment	Overvoltage category	Category II: Conforms to JIS B3502 and IEC 61131-2.		
	EMC immunity level	Zone B		
	Vibration resistance *1	Conforms to IEC 60068-2-6. 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 (10 sweeps of 10 min each = 100 min total)		
	Shock resistance *1	Conforms to IEC 60068-2-27. 147 m/s ² , 3 times each in X, Y, and Z directions		
Applicable standards *2		CULus: Listed (UL508) or Listed (UL 61010-2-201), ANSI/ISA 12.12.01, EU: EN 61131-2 or EN 61010-2-201, C-Tick or RCM, KC: KC Registration, NK, LR		

*1. For the Relay Output Unit, refer to the Digital Input Unit Specifications.
*2. Refer to the OMRON website (http://www.ia.omron.com/) or consult your OMRON representative for the most recent applicable standards for each model.

Digital Output Unit Specifications

• Transistor Output Unit (Screwless Clamping Terminal Block 12 mm, Width) NX-OD2154

Unit name	Transistor Output Unit	Model	NX-OD2154
Number of points	2 points	External connection	Screwless clamping terminal block
•		terminals	(8 terminals)
I/O refreshing method	Output refreshing with specified time stamp		NDN
	TS indicator, output indicator	Internal I/O common	NPN 24 VDC
	OD2154 ■TS	Rated voltage Operating load voltage	15 to 28.8 VDC
	= 0 = 1	range	13 to 28.8 VDC
Indicators		Maximum value of load current	0.5 A/point, 1 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
Dimensions	12 (W) x 100 (H) x 71 (D)	ON/OFF response time Isolation method	300 ns max./300 ns max. Digital isolator isolation
Dimensions	20 M Ω min. between isolated circuits (at		510 VAC between isolated circuits for 1
Insulation resistance	100 VDC)	Dielectric strength	minute at a leakage current of 5 mA max.
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.5 A/terminal max., IOG: 0.5 A/terminal max.
	Connected to a CPU Unit		
NX Unit power	0.85 W max. Connected to a Communications 	I/O current consumption	30 mA max.
consumption	Coupler Unit	NO current consumption	So ma max.
	0.45 W max.		
Weight	70 g max.		
Circuit layout	NX bus connector (left) //O power supply +	ush-pull output circuit.	OUT0 to OUT1 OUT0 to OUT1 IOG0 to 1 I/O power supply + NX bus connector I/O power supply – (right)
Installation orientation and restrictions	Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions		ons.
Terminal connection diagram	Power Supply Unit	ransistor Output Unit NX-OD2154 DUT0 OUT1 IOV IOV IOV IOV NC NC B8	rpe Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.

Unit name	Transistor Output Unit	Model	NX-OD2258
		External connection	Screwless clamping terminal block
Number of points	2 points	terminals	(8 terminals)
I/O refreshing method	Output refreshing with specified time stamp	Internal I/O common	PNP
	TS indicator, output indicator	Rated voltage	PNP 24 VDC
	OD2258	Operating load voltage	
	= 0 = 1	range	15 to 28.8 VDC
Indicators		Maximum value of load current	0.5 A/point, 1 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	300 ns max./300 ns max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Digital isolator isolation
Insulation resistance	20 M Ω 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.
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.5 A/terminal max., IOG: 0.5 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit 0.85 W max. Connected to a Communications Coupler Unit 0.50 W max. 	I/O current consumption	40 mA max.
Weight	70 g max.		
Circuit layout		push-pull output circuit.	IOV0 to 1 OUT0 to OUT1 IOG0 to 1 I/O power supply + I/O power supply – NX bus connector (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Power Supply Unit A1 B1 A1 OV IOV OV IOV 24 VDC	ransistor Output Unit NX-OD2258 Two-wire ty DUT0_0UT1_ IOV 0_1OV IOG 10G NC_NC_NC_ B8	ype Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.

Unit name	Transistor Output Unit	Model	NX-OD3121
Number of points	4 points	External connection terminals	Screwless clamping terminal block (12 terminals)
/O refreshing method	Selectable Synchronous I/O refreshing or F	Free-Run refreshing	
	TS indicator, output indicator	Internal I/O common	NPN
	OD3121	Rated voltage	12 to 24 VDC
	■TS ■0 ■1 ■2 ■3	Operating load voltage range	10.2 to 28.8 VDC
Indicators		Maximum value of load current	0.5 A/point, 2 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.1 ms max./0.8 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
nsulation resistance	20 M Ω 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
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.5 A/terminal max., IOG: 0.5 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit 0.90 W max. Connected to a Communications Coupler Unit 0.55 W max. 	I/O current consumption	10 mA max.
Weight	70 g max.		
Circuit layout	NX bus connector (left) //O power supply + //O power supply –		IOV0 to 3 OUT0 to OUT3 Terminal block IOG0 to 3 I/O power supply + I/O power supply – NX bus connector (right)
Installation orientation and restrictions	Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions	oright installation. er Unit: Possible in 6 orientat	ions.
Terminal connection diagram	Power Supply Unit A1 B1 A1 010V 10V 100 100 12 to 24 VDC 10V 10V 10V 10V	ansistor Output Unit NX-OD3121 B1 Two-wire typ OUT0 OUT1 IOV0 IOV1 IOQ0 IOG1 OUT2 OUT3 IOV2 IOV3 IOQ2 IOQ3 B8	re Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.

Unit name	Transistor Output Unit	Model	NX-OD3153
Number of points	4 points	External connection	Screwless clamping terminal block (12
I/O refreshing method	Selectable Synchronous I/O refreshing or F	terminals	terminals)
	TS indicator, output indicator	Internal I/O common	NPN
	OD3153	Rated voltage	24 VDC
	■TS	Operating load voltage	-
	■0 ■1 ■2 ■3	range	15 to 28.8 VDC
Indicators		Maximum value of load current	0.5 A/point, 2 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	300 ns max./300 ns max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Digital isolator isolation
nsulation resistance	20 M Ω 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
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.5 A/terminal max., IOG: 0.5 A/terminal max.
	Connected to a CPU Unit		
NX Unit power consumption	 0.90 W max. Connected to a Communications Coupler Unit 0.50 W max. 	I/O current consumption	30 mA max.
Weight	70 g max.		I
Circuit layout	NX bus connector (left) I/O power supply + I/O power supply – This unit uses a pust	n-pull output circuit.	OUT0 to OUT3 Terminal block IOG0 to 3 I/O power supply + I/O power supply – NX bus connector (right)
Installation orientation and restrictions	Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Additional I/O Power Supply Unit A1 B1 A1 I OV IOV 24 VDC A8 B8 A8	Iransistor Output Unit NX-OD3153 B1 OUT0 OUT1● IOV0 IOV1● IOQ0 IOG1 OUT2 OUT3● IOV2 IOV3● IOG2 IOG3●	/pe Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.

Unit name	Transistor Output Unit	Model	NX-OD3256
Number of points	4 points	External connection terminals	Screwless clamping terminal block (12 terminals)
O refreshing method	Selectable Synchronous I/O refreshing or F	ree-Run refreshing	-
	TS indicator, output indicator	Internal I/O common	PNP
	OD3256	Rated voltage	24 VDC
	=15 =0 =1 =2 =3	Operating load voltage range	15 to 28.8 VDC
ndicators		Maximum value of load current	0.5 A/point, 2 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.5 ms max./1.0 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
nsulation resistance	20 $M\Omega$ 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
/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.5 A/terminal max., IOG: 0.5 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit 0.90 W max. Connected to a Communications Coupler Unit 0.55 W max. 	I/O current consumption	20 mA max.
Weight	70 g max.		
Circuit layout	NX bus connector (left) I/O power supply +		IOV0 to 3 Terminal block OUT0 to OUT3 IOG0 to 3 I/O power supply + I/O power supply – NX bus connector (right)
nstallation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Power Supply Unit A1 B1 A1 0 0V 10V 0 0G 10G 24 VDC 10V 10V 10V 10V	Ansistor Output Unit NX-OD3256 B1 Two-wire type OUTO OUT10 OV0 IOV1 OG0 IOG10 OV2 IOV3 OV2 IOV3 OG2 IOG3 B8	P Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.

Unit name	Transistor Output Unit	Model	NX-OD3257
Number of points	4 points	External connection	Screwless clamping terminal block (12
/O refreshing method	Selectable Synchronous I/O refreshing or F	terminals	terminals)
o renearing method	TS indicator, output indicator	Internal I/O common	PNP
	OD3257	Rated voltage	24 VDC
	■TS	Operating load voltage	15 to 28.8 VDC
	■0 ■1 ■2 ■3	range	
ndicators		Maximum value of load current	0.5 A/point, 2 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
Dimensions		ON/OFF response time Isolation method	300 ns max./300 ns max.
	12 (W) x 100 (H) x 71 (D) 20 MΩ min. between isolated circuits (at		Digital isolator isolation 510 VAC between isolated circuits for 1
nsulation resistance	100 VDC)	Dielectric strength	minute at a leakage current of 5 mA max
/O power supply	Supply from the NX bus	Current capacity of I/O	IOV: 0.5 A/terminal max.,
nethod	Connected to a CPU Unit	power supply terminal	IOG: 0.5 A/terminal max.
	0.85 W max.		
NX Unit power consumption	Connected to a Communications	I/O current consumption	40 mA max.
•	Coupler Unit 0.50 W max.		
Weight	70 g max.		
		· · · · · · · · · · · · · · · · · · ·	0 IOV0 to 3
		Short-circuit	
		Sho	
	crits		
	Internal circuits		
	intern		Terminal block
0			
Circuit layout	International In		
			IOG0 to 3
	NX bus I/O power supply + O		I/O power supply + NX bus connector
	(left) I/O power supply –		I/O power supply – (right)
	This unit uses a push	n-pull output circuit.	
notallation orientation	Installation orientation:	vight installation	
Installation orientation and restrictions	 Connected to a CPU Unit: Possible in up Connected to a Communications Couple 		ions.
	Restrictions: No restrictions		
		ransistor Output Unit	
	Power Supply Unit	NX-OD3257	
		B1 Two-wire typ	he
Terminal connection			Three-wire type
diagram		OUT2 OUT3	
	IOV IOV	IOV2 IOV3	—
		IOG2 IOG3	— <u> </u>]
	IOG IOG		
	10G 10G		_
Disconnection			
Disconnection/ Short-circuit	10G 10G	Protective function	With load short-circuit protection.

Init name	Transistor Output Unit	Model	NX-OD3268
lumber of points	4 points	External connection terminals	Screwless clamping terminal block (16 terminals)
O refreshing method	Switching Synchronous I/O refreshing and	Free-Run refreshing	
	TS indicator, output indicator	Internal I/O common	PNP
	002200	Rated voltage	24 VDC
	OD3268 ■TS ■0 ■1	Operating load voltage range	15 to 28.8 VDC
ndicators	= 2 = 3	Maximum value of load current	2 A/point, 8 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.5 ms max./1.0 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
nsulation resistance	20 $M\Omega$ 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
O power supply nethod	Supply from external source	Current capacity of I/O power supply terminal	IOV: 2 A/terminal max., IOG: 2 A/terminal max., COM (+V): 4 A/terminal max., 0V: 4 A/terminal max.
IX Unit power onsumption	 Connected to a CPU Unit 0.85 W max. Connected to a Communications Coupler Unit 0.50 W max. 	Current consumption from I/O power supply	20 mA max.
Veight	70 g max.		1
Sircuit layout	NX bus connector (left)	Short-circuit protection	IOV 0 to IOV 3 COM (+V) Terminal block OUT 0 to OUT 3 IOG 0 to IOG 3 OV I/O power supply + I/O power supply - I/O power supply -
nstallation orientation nd restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		ions.
erminal connection liagram	OUT0 OUT1 IOV0 IOV1 IOG0 IOG1 OUT2 OUT3 IOV2 IOV3 IOG2 IOG3 • OV • OV • OV	vire type	
	DC OV has 2 terminals, so be sure to wire both terminals COM (+V) has 2 terminals, so be sure to wire both te		

Unit name	Transistor Output Unit	Model	NX-OD4121
Number of points	8 points	External connection terminals	Screwless clamping terminal block (16 terminals)
O refreshing method	Selectable Synchronous I/O refreshing or F	Free-Run refreshing	
	TS indicator, output indicator	Internal I/O common	NPN
	OD4121	Rated voltage	12 to 24 VDC
	■TS ■0 ■1 ■2 ■3	Operating load voltage range	10.2 to 28.8 VDC
ndicators	■4 ■5 ■6 ■7	Maximum value of load current	0.5 A/point, 4 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA
		Residual voltage	1.5 V max.
		ON/OFF response time	0.1 ms max./0.8 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
nsulation resistance	20 M Ω 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
/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.5 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit 0.90 W max. Connected to a Communications Coupler Unit 0.55 W max. 	I/O current consumption	10 mA max.
Weight	70 g max.		
Circuit layout	NX bus connector (left) // O power supply +		I/O power supply + I/O power supply - NX bus connector (right)
Installation orientation and restrictions	Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Power Supply Unit A1 B1 A1 IO IO IO I2 to 24 VDC IOV	G IOG OUT6 OUT6	
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.

Unit name	Transistor Output Unit	Model	NX-OD4256
Number of points	8 points	External connection terminals	Screwless clamping terminal block (16 terminals)
I/O refreshing method	Selectable Synchronous I/O refreshing or F		
	TS indicator, output indicator	Internal I/O common	PNP
	OD4256 ■TS	Rated voltage	24 VDC
	■0 ■1 ■2 ■3	Operating load voltage range	15 to 28.8 VDC
Indicators	■4 ■5 ■6 ■7	Maximum value of load current	0.5 A/point, 4 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA
		Residual voltage	1.5 V max.
		ON/OFF response time	0.5 ms max./1.0 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 M Ω 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.
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOG: 0.5 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit 1.00 W max. Connected to a Communications Coupler Unit 0.65 W max. 	I/O current consumption	30 mA max.
Weight	70 g max.		
Circuit layout	NX bus connector (left) I/O power supply + I/O power supply –		OUT0 to OUT7 Terminal block IOG0 to 7 I/O power supply + I/O power supply - NX bus connector (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Additional I/O Power Supply Unit A		Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.

Unit name	Transistar Output Linit	Model	NX-OD5121
	Transistor Output Unit	External connection	Screwless clamping terminal block (16
Number of points	16 points	terminals	terminals)
I/O refreshing method	Selectable Synchronous I/O refreshing or F	-	
	TS indicator, output indicator	Internal I/O common	
	OD5121 ■TS	Rated voltage	12 to 24 VDC
	E O E 1 E 2 E 3 E 4 E 5 E 6 E 7	Operating load voltage range	10.2 to 28.8 VDC
Indicators	8 89 11 12 13 14 1 5	Maximum value of load current	0.5 A/point, 4 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.1 ms max./0.8 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 M Ω 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
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit 1.00 W max. Connected to a Communications Coupler Unit 0.65 W max. 	I/O current consumption	20 mA max.
Weight	70 g max.		
Circuit layout	NX bus connector (left) I/O power supply +		OUT0 to OUT15 Terminal block
Installation orientation and restrictions	Connected to a CPU Unit: Possible in upright installation. Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions		
Terminal connection diagram	12 to 24 VDC 10 0 100 100 100	n Ünit Connection Ünit B1A1 B1 A1 IOV IOG IOG IOV IOG IOG	ransistor Output Unit NX-OD5121 B1 Two-wire type OUT0 OUT1 Two-wire type OUT2 OUT3 OUT4 OUT4 OUT5 OUT6 OUT7 OUT10 OUT11 OUT10 OUT11 OUT110 OUT11 OUT12 OUT13 OUT12 OUT13 OUT12 OUT13 OUT14 OUT15 OUT14 OUT15
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.

Unit name	Transistor Output Unit	Model	NX-OD5256
	· · · · ·	External connection	Screwless clamping terminal block (16
Number of points	16 points	terminals	terminals)
I/O refreshing method	Selectable Synchronous I/O refreshing or F	-	
	TS indicator, output indicator 0D5256	Internal I/O common Rated voltage	PNP 24 VDC
		Operating load voltage	-
	■0 ■1 ■2 ■3 ■4 ■5 ■6 ■7	range	15 to 28.8 VDC
Indicators	■8 ■9 ■10 ■11 ■12 ■13 ■14 ■15	Maximum value of load current	0.5 A/point, 4 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.5 ms max./1.0 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 M Ω 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
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit 1.10 W max. Connected to a Communications Coupler Unit 0.70 W max. 	I/O current consumption	40 mA max.
Weight	70 g max.		
Circuit layout	NX bus connector (left) I/O power supply + I/O power supply –		OUT0 to OUT15 Terminal block I/O power supply + I/O power supply - NX bus connector (right)
Installation orientation and restrictions	Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram		Connection Unit NX-O 10G 10G 0UT0 10G 10G 0UT2 10G 10G 0UT4 10G 10G 0UT6 10G 10G 0UT6 10G 10G 0UT8 10G 10G 0UT10 10G 10G 0UT12	OUT3 OUT5 OUT7
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.

• Transistor Output Units (M3 Screw Terminal Block, 30 mm Width) NX-OD5121-1

NX-OD5121-1 Unit name	Transistor Output Unit	Model	NX-OD5121-1
Onit name		External connection	
Number of points	16 points	terminals	M3 screw terminal block (18 terminals)
I/O refreshing method	Switching Synchronous I/O refreshing and		
	TS indicator, output indicator	Internal I/O common	NPN
	OD5121-1	Rated voltage	12 to 24 VDC
	■TS ■0 ■1 ■2 ■3 ■4 ■5 ■6 ■7	Operating load voltage range	10.2 to 28.8 VDC
Indicators	■8 ■9 ■10 ■11 ■12 ■13 ■14 ■15	Maximum value of load current	0.5 A/point, 5 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.1 ms max./0.8 ms max.
Dimensions	30 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 M Ω 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.
I/O power supply method	Supply from the external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit 0.90 W max. Connected to a Communications Coupler Unit 0.60 W max. 	Current consumption from I/O power supply	30 mA max.
Weight	125 g max.		1
Circuit layout	NX bus connector (left)		COM VOUT0 to OUT15 COM VO power Supply + VO power Supply + VO power Supply - VO power Supply - VO power Supply -
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Terminal Signal name A B Signal name OUT0 A0 B0 OUT1 L OUT2 A1 B1 OUT3 L OUT4 A2 B2 OUT5 L OUT6 A3 B3 OUT7 L OUT8 A4 B4 OUT9 L OUT12 A6 B5 OUT11 L OUT12 A6 B6 OUT13 L OUT14 A7 B7 OUT15 L OUT4 A8 B8 +V		
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.

NX-OD5256-1

NX-OD5256-1			
Unit name	Transistor Output Unit	Model	NX-OD5256-1
Number of points	16 points	External connection terminals	M3 screw terminal block (18 terminals)
I/O refreshing method	Switching Synchronous I/O refreshing and		
	TS indicator, output indicator	Internal I/O common	PNP
	OD5256-1	Rated voltage	24 VDC
	■TS ■0 ■1 ■2 ■3 ■4 ■5 ■6 ■7	Operating load voltage range	20.4 to 28.8 VDC
Indicators	■8 ■9 ■10 ■11 ■12 ■13 ■14 ■15	Maximum value of load current	0.5 A/point, 5 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.5 ms max./1.0 ms max.
Dimensions	30 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 $M\Omega$ 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.
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit 0.95 W max. Connected to a Communications Coupler Unit 0.65 W max. 	Current consumption from I/O power supply	30 mA max.
Weight	125 g max.		
Circuit layout	NX bus connector (left)	Short-circuit protection	COM (+V) OUT0 to OUT15 OV I/O power supply + I/O power supply - NX bus connector (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	Terminal Signal name A B Signal name OUT0 A0 B0 OUT1 L OUT2 A1 B1 OUT3 L L OUT4 A2 B2 OUT5 L L OUT6 A3 B3 OUT7 L L OUT8 A4 B4 OUT9 L L OUT12 A6 B6 OUT13 L L OUT14 A7 B7 OUT15 L OV A8 B8 COM (+V) 24 VDC 24 VDC		
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.

• Transistor Output Units (MIL Connector, 30 mm Width) NX-OD5121-5

Unit name	Transistor Output Unit	Model	NX-OD5121-5
Number of points	16 points	External connection terminals	MIL connector (20 terminals)
/O refreshing method	Switching Synchronous I/O refreshing and Free-F		
	TS indicator, output indicator	Internal I/O common	NPN
	OD5121-5	Rated voltage	12 to 24 VDC
	TS = 0 = 1 = 2 = 3 = 4 = 5 = 6 = 7	Operating load voltage range	10.2 to 28.8 VDC
Indicators	■8 ■9 ■10 ■11 ■12 ■13 ■14 ■15	Maximum value of load current	0.5 A/point, 2 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
Dimensions	30 (W) x 100 (H) x 71 (D)	ON/OFF response time Isolation method	0.1 ms max./0.8 ms max. Photocoupler isolation
	20 MΩ min. between isolated circuits		510 VAC between isolated circuits for 1 minute at
Insulation resistance	(at 100 VDC)	Dielectric strength	a leakage current of 5 mA max.
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	Connected to a CPU Unit 0.95 W max. Connected to a Communications Coupler Unit 0.60 W max.	Current consumption from I/O power supply	30 mA max.
Weight	80 g max.		
Circuit layout	NX bus connector (left) I/O power supply -		Connector DM D power supply + D power supply - NX bus connector (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in upright • Connected to a Communications Coupler Unit Restrictions: No restrictions	installation. 1: Possible in 6 orientations.	
Terminal connection diagram		T07 L T06 L T05 L T04 L T03 L T02 L T01 L	
Disconnection/Short-circuit detection	Be sure to wire both pins 1 and 2 (+V). Not supported.	Protective function	Not supported.

NX-OD5256-5

Unit name	Transistor Output Unit			Model		NX-OD5256-5
Number of points	16 points			Externa termina	Il connection	MIL connector (20 terminals)
I/O refreshing method	Switching Synchronous I/O ref	reshing	and Fr	ee-Run refree	shing	
	TS indicator, output indicator			Interna	I/O common	PNP
	OD5256-5			Rated v	oltage	24 VDC
	0 1 2 3 4 5	∎TS ∎6 ∎7		Operati range	ng load voltage	20.4 to 28.8 VDC
Indicators	■8 ■9 ■10 ■11 ■12 ■13		Maximu current	Im value of load	0.5 A/point, 2 A/Unit	
				Maximu	ım inrush curren	t 4.0 A/point, 10 ms max.
			-	Leakag	e current	0.1 mA max.
					al voltage	1.5 V max.
					response time	0.5 ms max./1.0 ms max.
Dimensions	30 (W) x 100 (H) x 71 (D)		() 4 0 0	Isolatio	n method	Photocoupler isolation
Insulation resistance	20 MΩ min. between isolated o	circuits	(at 100		ric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
I/O power supply method	Supplied from external source.				t capacity of I/O supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit 1.00 W max. Connected to a Communica 0.70 W max. 	oupler		t consumption fro ver supply	40 mA max.	
Weight	85 g max.					
Circuit layout	NX bus connector (left) [I/O power supply + //O power supply - //O power supply -					OUT0 to OUT15 OV OV OV OV V I/O power supply + NX bus connector
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: I • Connected to a Communica Restrictions: No restrictions	Possible ations C	e in upri Coupler	ight installatio Unit: Possible	n. e in 6 orientations.	
	Signal	Conne	ector	Signal		
	24 VDC rame	pi		name		
	COM (+V)	1	2	COM (+V)	_	
	0V	3	4	0V		,
	0UT15	5	6	OUT07)
Terminal connection	0UT14	7	8	OUT06)
diagram	OUT13	9	10	OUT05		,
	0UT12	11	12	OUT04	[•
	OUT11	13	14	OUT03		,
	OUT10	15	16	OUT02		•
		17	18	OUT01)
		19	20	OUT00		
	Be sure to wire both pins 1 and 2 (Be sure to wire both pins 3 and 4 (√)).		<u> </u>	
Disconnection/Short-circuit						

NX-OD6121-5

Unit name	Transistor Output Unit	Model	NX-OD6121-5
Number of points	32 points	External connection terminals	MIL connector (40 terminals)
I/O refreshing method	Switching Synchronous I/O refreshing and Free-F	Run refreshing	
	TS indicator, output indicator	Internal I/O common	NPN
	OD6121-5	Rated voltage	12 to 24 VDC
■TS ■0 ■1 ■2 ■3 ■4 ■5 ■6 ■7		Operating load voltage range	10.2 to 28.8 VDC
Indicators	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Maximum value of load current	0.5 A/point, 2 A/common, 4 A/Unit
		Maximum inrush current	4.0 A/point, 10 ms max.
		Leakage current	0.1 mA max.
		Residual voltage	1.5 V max.
		ON/OFF response time	0.1 ms max./0.8 ms max.
Dimensions	30 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 M Ω 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.
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	Connected to a CPU Unit 1.00 W max. Connected to a Communications Coupler Unit 0.80 W max.	Current consumption from I/O power supply	50 mA max.
Weight	90 g max.	·	
Circuit layout		+V0 +V0 OUT0 to OUT15 COM0 COM0 COM0 +V1 +V1 +V1 +V1 OUT16 to OUT31 W COM1 COM1	Connector
	NX bus connector (left) //O power supply -	I/O power s	connector
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in upright i • Connected to a Communications Coupler Unit Restrictions: No restrictions	installation. : Possible in 6 orientations.	

	12 to Sig			Signal name		
	24 VDC	+V1 1	2 +	-V1		
		COM1 3	4 (COM1	Ĭ	
		UT31 5	6 (DUT23		
		UT30 7	8 (DUT22		
		UT29 9	10 (DUT21		
		UT28 11	12 (DUT20		
		UT27 13	14 (DUT19		
		UT26 15	16 (DUT18		
		UT25 17	18 (DUT17		
Terminal connection diagram		UT24 19	20 0	DUT16		
ulagram		+V0 21	22 +	-V0		
	C	COM0 23	24 (COM0		
		UT15 25	26	DUT07		
		UT14 27	28 (DUT06		
		UT13 29	30 0	DUT05		
		UT12 31	32 (DUT04	╧┤──┥│	
		UT11 33	34 (÷	
		UT10 35	36 0	DUT02		
		UT09 37	38 (DUT01	╧┥	• Be sure to wire both pins 21 and 22 (+V0).
		UT08 39	40 0		╧╦╤┓╽	Be sure to wire both pins 23 and 24 (COM0).
	│ <mark>∲╶</mark> ╢── <mark>┶──└└└┘</mark> ──	<u> </u>			╧╝──┚╽	 Be sure to wire both pins 1 and 2 (+V1). Be sure to wire both pins 3 and 4 (COM1).
Disconnection/Short-circuit detection	Not supported.			Protective	function	Not supported.

NX-OD6256-5

Unit name	Transistor Output Unit	Model	NX-OD6256-5	
Number of points	32 points	External connection terminals	MIL connector (40 terminals)	
/O refreshing method	Switching Synchronous I/O refreshing and Free-F	Run refreshing		
	TS indicator, output indicator	Internal I/O common	PNP	
	OD6256-5	Rated voltage	24 VDC	
	TS TS TS TS TS TS TS TS	Operating load voltage range	20.4 to 28.8 VDC	
Indicators	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Maximum value of load current	0.5 A/point, 2 A/common, 4 A/Unit	
	■24 ■25 ■26 ■27 ■28 ■29 ■30 ■31	Maximum inrush current	4.0 A/point, 10 ms max.	
		Leakage current	0.1 mA max.	
		Residual voltage	1.5 V max.	
		ON/OFF response time	0.5 ms max./1.0 ms max.	
Dimensions	30 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation	
Insulation resistance	20 $M\Omega$ 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.	
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals	
NX Unit power consumption	 Connected to a CPU Unit 1.30 W max. Connected to a Communications Coupler Unit 1.00 W max. 	Current consumption from I/O power supply	80 mA max.	
Weight	95 g max.		1	
Circuit layout	NX bus consector [I/O power supply + 0	Short-circuit protection	COM0 (+V) COM0 (+V) COM0 (+V) OUT0 to OUT15 OV0 COM1 (+V) COM1 (+V) OUT16 to OUT16 to OUT16 to OUT16 OV1 OV1 OV1 OV1 NX bus compositor	
Installation orientation and restrictions	connector (left) I/O power supply – Installation orientation: • Connected to a CPU Unit: Possible in upright i • Connected to a Communications Coupler Unit Restrictions: No restrictions	installation. : Possible in 6 orientations.	l/O power supply – (right)	

	Signal name	Conn pi		Signal name		
	COM1 (+V)	1	2	COM1 (+V)		
	0V1	3	4	0V1	● ● ● 24 VDC	5
	OUT31	5	6	OUT23		
		7	8	OUT22		
	OUT29	9	10	OUT21		
		11	12	OUT20		
		13	14	OUT19		
		15	16	OUT18		
Toursiand commention	OUT25	17	18	OUT17		
Terminal connection diagram		19	20	OUT16		
ulugram	COM0 (+V)	21	22	COM0 (+V)	24 VD	C .
	0V0	23	24	0V0	 _	
		25	26	OUT07	─────────	
		27	28	OUT06		
		29	30	OUT05		
		31	32	OUT04		
		33	34	OUT03		
		35	36	OUT02		
		37	38	OUT01		Be sure to wire both pins 21 and 22 (COM0 (+V)).
		39	40	OUT00		• Be sure to wire both pins 1 and 2 (COM1 (+V)).
						 Be sure to wire both pins 23 and 24 (0V0). Be sure to wire both pins 3 and 4 (0V1).
				1		
Disconnection/Short-circuit detection	Not supported.			Pro	otective function	With load short-circuit protection.

• Transistor Output Units (Fujitsu Connector, 30 mm Width) NX-OD6121-6

Unit name	Transistor Output Unit	Model	NX-OD6121-	6	
Number of points	32 points	External connection	Fujitsu conne	Fujitsu connector (40 terminals)	
I/O refreshing method	Switching Synchronous I/O refreshing and Free-R	terminals			
No renesting method	TS indicator, output indicator	Internal I/O common	NPN		
	0000101	Rated voltage	12 to 24 VDC)	
	OD6121-6 TS 0 1 2 3 4 5 6 7	Operating load voltage range	10.2 to 28.8	VDC	
Indicators	a 8 b 9 b 10 b 11 b 12 b 13 b 14 b 15 b 16 b 17 b 18 b 19 b 20 b 21 b 22 b 23	Maximum value of load current		2 A/common, 4 A/Unit	
		Maximum inrush current	4.0 A/point, 1		
		Leakage current Residual voltage	0.1 mA max. 1.5 V max.		
		ON/OFF response time	0.1 ms max./	0.8 ms max.	
Dimensions	30 (W) x 100 (H) x 71 (D)	Isolation method	Photocouple	r isolation	
Insulation resistance	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric strength		ween isolated circuits for 1 minute at rrent of 5 mA max.	
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O p	oower supply terminals	
NX Unit power consumption	0.80 W max.	Current consumption from I/O power supply	50 mA max.		
Weight	90 g max.				
Circuit layout			+V0 +V0 OUT0 to OUT15 COM0 COM0 +V1 +V1 OUT16 to OUT31 COM1 I/O power supply + I/O power supply -	Connector NX bus connector (right)	
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in upright i • Connected to a Communications Coupler Unit: Restrictions: No restrictions				
	12 to 24 VDC Signal name Connector pin name Signal name UT0 A1 B1 OUT16 OUT16 U OUT1 A2 B2 OUT17 U OUT2 A3 B3 OUT18 U OUT3 A4 B4 OUT21 U OUT5 A6 B6 OUT21 U OUT6 A7 B7 OUT22 U OUT6 A8 B8 OUT23 OUT24 U OUT5 A6 B6 OUT21 OUT24 OUT24 OUT44 OUT44				
Terminal connection diagram	U OUT8 A11 B11 OUT24 0 0UT9 A12 B12 OUT25 0 0UT10 A13 B13 OUT26 0 0UT11 A14 B14 OUT26 0 0UT12 A15 B15 OUT28 0 0UT13 A16 B16 OUT28 0 0UT14 A17 B17 OUT30 0 0UT15 A18 B18 OUT31 0 0UT15 A18 B18 OUT31 0 A20 B20 +V1 • Be sure to wire both pins A9 and A19 (COM0). • Be sure to wire both pins A9 and A19 (COM1). • Be sure to wire both pins A10 and A20 (+V0). • DUT1.				
	UT8 A11 B11 OUT24 UOUT9 A12 B12 OUT25 UOUT10 A13 B13 OUT26 UOUT11 A13 B13 OUT26 UOUT12 A15 B15 OUT27 UOUT12 A15 B15 OUT26 UOUT12 A15 B15 OUT28 UOUT13 A16 B16 OUT29 UOUT14 A17 B17 OUT30 UOUT15 A18 B18 COM131 COM0 A19 B19 +V1 • Be sure to wire both pins A9 and A19 (COM0). • Be sure to wire both pins B9 and B19 (COM1).				

• Relay Output Unit (Screwless Clamping Terminal Block 12 mm, Width) NX-OC2633

Unit name	Relay Output Units	Model	NX-OC2633		
Number of points	2 points, independent contacts	External connection terminals	Screwless clamping terminal block (8 terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator, output indicator	Relay type	N.O. contact		
Indicators	OC2633 ■TS ■0 ■1	Maximum switching capacity	250 VAC/2 A (cosφ = 1), 250 VAC/2 A (cosφ = 0.4), 24 VDC/2 A, 4 A/Unit		
		Minimum switching capacity	5 VDC, 1 mA		
Relay service life	Electrical: 100,000 operations* Mechanical: 20,000,000 operations	ON/OFF response time	15 ms max./15 ms max.		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Relay isolation		
Insulation resistance	Between A1/B1 terminals and A3/B3 terminals: 20 M Ω min. (500 VDC) Between the external terminals and internal circuits: 20 M Ω min. (500 VDC) Between the internal circuit and GR terminal: 20 M Ω min. (100 VDC) Between the external terminals and GR terminal: 20 M Ω min. (500 VDC)	Dielectric strength	Between A1/B1 terminals and A3/B3 terminals: 2300 VAC for 1 min at a leakage current of 5 mA max. Between the external terminals and GR terminal: 2300 VAC for 1 min at a leakage current of 5 mA max. Between the external terminals and internal circuits: 2300 VAC for 1 min at a leakage current of 5 mA max. Between the internal circuit and GR terminal: 510 VAC for 1 min at a leakage current of 5 mA max.		
Vibration resistance	Conforms to IEC60068-2-6. 5 to 8.4 Hz with amplitude of 3.5 mm, 8.4 to 150 Hz, acceleration of 9.8 m/s ² 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)	Shock resistance	100 m/s ² , 3 times each in X, Y, and Z directions		
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals		
NX Unit power consumption	 Connected to a CPU Unit 1.20 W max. Connected to a Communications Coupler Unit 0.80 W max. 	I/O current consumption	No consumption		
Weight	65 g max.		·		
Circuit layout	NX bus connector (left) U/O power supply -				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in upright in • Connected to a Communications Coupler Unit: Restrictions: No restrictions				
Terminal connection diagram	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.		

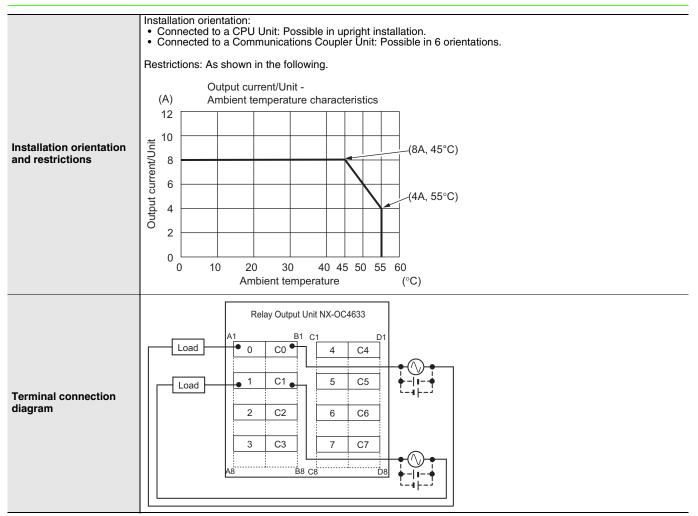
* Electrical service life will vary depending on the current value. Refer to "NX-series Digital I/O Units User's Manual" for details.

Relay Output Unit NX-OC2733

Unit name	Relay Output Unit	Model	NX-OC2733
Number of points	2 points, independent contacts	External connection terminals	Screwless clamping terminal block (8 terminals)
I/O refreshing method	Free-Run refreshing		
Indicators	TS indicator, output indicator OC2733 TS TS TS TO TS	Maximum switching capacity	250 VAC/2 A (cosφ = 1), 250 VAC/2 A (cosφ = 0.4), 24 VDC/2 A, 4 A/Unit
		Minimum switching capacity	5 VDC, 10 mA
Relay service life	Electrical: 100,000 operations Mechanical: 20,000,000 operations	ON/OFF response time	15 ms max./15 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Relay isolation
Insulation resistance	Between A1/3, B1/3 terminals and A5/7, B5/7 terminals: 20 M Ω min. (at 500 VDC) Between the external terminals and functional ground terminal: 20 M Ω min. (at 500 VDC) Between the external terminals and internal circuits: 20 M Ω min. (at 500 VDC) Between the internal circuit and the functional ground terminal: 20 M Ω min. (at 100 VDC)	Dielectric strength	Between A1/3, B1/3 terminals and A5/7, B5/7 terminals: 2300 VAC for 1 min at a leakage current of 5 mA max. Between the external terminals and the functional ground terminal: 2300 VAC for min at a leakage current of 5 mA max. Between the external terminals and internal circuits: 2300 VAC for 1 min at a leakage current of 5 mA max. Between the internal circuit and the functional ground terminal: 510 VAC for 1 min at a leakage current of 5 mA max.
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	Connected to a CPU Unit 1.30 W max. Connected to a Communications Coupler Unit 0.95 W max.	Current consumption from I/O power supply	No consumption
Weight	70 g max.		1
Circuit layout			NO0 to NO1 C0 to C1 NC0 to NC1 Terminal block NC0 to NC1 I/O power supply + N/O power supply + N/O power supply - N/O power supply - N/O power supply - N/O power supply -
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit: Possible in up • Connected to a Communications Couple Restrictions: No restrictions		tions.
Terminal connection diagram	Relay Output Unit NX-OC2733 B1 Load •NO0 NC0 • C0 C0 • C0 C0 • C0 C0 • C1 C1 • A8 B8 B8		
Disconnection/Short- circuit detection	Not supported.	Protective function	Not supported.

• Relay Output Units (Screwless Clamping Terminal Block, 24 mm Width) NX-OC4633

Unit name	Relay Output Unit	Model	NX-OC4633	
Number of points	8 points, independent contacts	External connection terminals	Screwless clamping terminal block (8 terminals x 2)	
I/O refreshing method	Free-Run refreshing			
Indicators	TS indicator, output indicator OC4633 TS 0 =1 =2 =3	Relay type Maximum switching capacity	N.O. contact 250 VAC/2 A ($\cos\phi = 1$), 250 VAC/2 A ($\cos\phi = 0.4$), 24 VDC/2 A, 8 A/Unit	
	■2 ■5 ■6 ■7	Minimum switching capacity 5 VDC, 1 mA		
Relay service life	Electrical: 100,000 operations* Mechanical: 20,000,000 operations	ON/OFF response time	15 ms max./15 ms max.	
Dimensions	24 (W) x 100 (H) x 71 (D)	Isolation method	Relay isolation	
Insulation resistance	Between output bits: 20 M Ω min. (at 500 VDC) Between the external terminals and the functional ground terminal: 20 M Ω min. (at 500 VDC) Between the external terminals and internal circuits: 20 M Ω min. (at 500 VDC) Between the internal circuit and the functional ground terminal: 20 M Ω min. (at 100 VDC)	Dielectric strength	Between output bits: 2300 VAC for 1 min a leakage current of 5 mA max. Between the external terminals and the functional ground terminal: 2300 VAC for min at a leakage current of 5 mA max. Between the external terminals and internal circuits: 2300 VAC for 1 min at a leakage current of 5 mA max. Between the internal circuit and the functional ground terminal: 510 VAC for min at a leakage current of 5 mA max.	
Vibration resistance	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with amplitude of 3.5 mm, 8.4 to 150 Hz, acceleration of 9.8 m/s ² 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)	Shock resistance	100 m/s ² , 3 times each in X, Y, and Z directions	
I/O power supply method	Supply from external source	Current capacity of I/O power supply terminal	Without I/O power supply terminals	
NX Unit power consumption	 Connected to a CPU Unit 2.00 W max. Connected to a Communications Coupler Unit 1.65 W max. 	Current consumption from I/O power supply	No consumption	
Weight	140 g max.			
Circuit layout	NX bus [I/O power supply + 0	power	C0 to 7 C0 to C7 C0 to C7	
	NX bus connector (left) I/O power supply		I/O power supply + NX bus connector (right)	
	You cannot re	eplace the relay.		



* Electrical service life will vary depending on the current value. Refer to "NX-series Digital I/O Units User's Manual" for details.

Version Information

Connecting with CPU Units

Refer to the user's manual for the CPU Unit for the CPU Unit to which NX Units can be connected.

NX Un	it	Correspondi	ng versions *
Model	Unit version	CPU Unit	Sysmac Studio
NX-OD2154			
NX-OD2258			
NX-OD3121			
NX-OD3153			
NX-OD3256			
NX-OD3257]		
NX-OD3268]		
NX-OD4121			
NX-OD4256			
NX-OD5121			
NX-OD5121-1	Ver.1.0	Ver.1.13 or later	Ver.1.17 or higher
NX-OD5121-5			
NX-OD5256			
NX-OD5256-1			
NX-OD5256-5			
NX-OD6121-5]		
NX-OD6121-6]		
NX-OD6256-5]		
NX-OC2633]		
NX-OC2733	1		
NX-OC4633]		

* Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

Connecting with Coupler Units

NX U	Jnit		Corresponding versions *1					
			EtherCAT		EtherNet/IP			
Model	Unit version	Communications Coupler Unit	NJ/NX-series CPU Units or NY-series Industrial PCs	Sysmac Studio	Communications Coupler Unit	Sysmac Studio		
NX-OD2154		Ver.1.1 or later	Ver.1.06 or later	Ver.1.07 or higher				
NX-OD2258			*2	ver. 1.07 of higher				
NX-OD3121								
NX-OD3153				Ver.1.06 or higher		Ver.1.10 or higher		
NX-OD3256				ver. 1.06 or higher		ver. 1. to of higher		
NX-OD3257								
NX-OD3268				Ver.1.13 or higher	-	Ver.1.13 or higher		
NX-OD4121								
NX-OD4256				Ver.1.06 or higher		Ver.1.10 or higher		
NX-OD5121								
NX-OD5121-1	Ver.1.0			Ver.1.13 or higher		Ver.1.13 or higher		
NX-OD5121-5		Ver.1.0 or later	Ver.1.05 or later	Ver.1.10 or higher		Ver.1.10 or higher		
NX-OD5256				Ver.1.06 or higher		ver. 1. TO OF Higher		
NX-OD5256-1				Ver.1.13 or higher		Ver.1.13 or higher		
NX-OD5256-5				Ver.1.10 or higher		Ver.1.10 or higher		
NX-OD6121-5				ver.1.10 of higher		ver. 1. 10 of higher		
NX-OD6121-6				Ver.1.13 or higher		Ver.1.13 or higher		
NX-OD6256-5				Ver.1.10 or higher				
NX-OC2633				Ver.1.06 or higher		Ver.1.10 or higher		
NX-OC2733				Ver.1.08 or higher				
NX-OC4633				Ver.1.17 or higher		Ver.1.17 or higher		

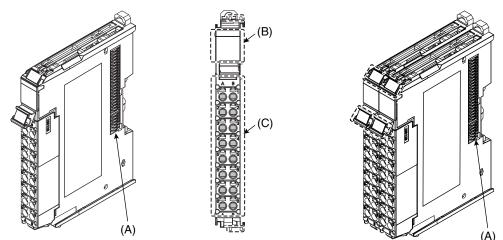
*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

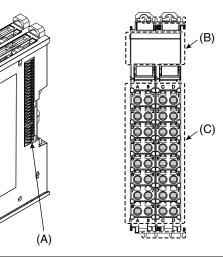
*2. If you use a CPU Unit, the instructions for time stamp refreshing are supported by CPU Units with unit version 1.06 or later. If you do not use instructions for time stamp refreshing, you can use version 1.05. Refer to the instructions reference manual for the connected CPU Unit or Industrial PC for details on the instructions for time stamp refreshing.

External Interface

Screwless Clamping Terminal Block Type

NX Units (12 mm Width)

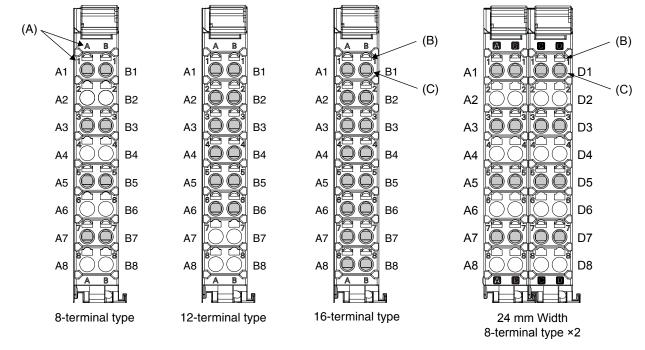




Symbol	Name	Function
(A)	NX bus connector	This connector is used to connect each Unit.
(B)	Indicators	The indicators show the current operating status of the Unit.
(C)	Terminal block	The terminal block is used to connect external devices. The number of terminals depends on the type of Unit.

NX Units (24 mm Width)

Terminal Blocks



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, i.e. A1 to A8 and B1 to B8. 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				
Unit model	Model	No. of terminals	Ground terminal mark	Terminal current capacity	
NX-OD2	NX-TBA082	8	None	10 A	
NX-OD3	NX-TBA122	12	None	10 A	
NX-OD3268 NX-OD4	NX-TBA162	16	None	10 A	
NX-OD5	NX-TBA162	16	None	10 A	
NX-OC2	NX-TBA082	8	None	10 A	
NX-OC4633	NX-TBA082	8	None	10 A	
NX-004033	NX-TBB082	8	None	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.

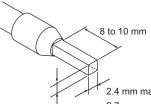
The applicable ferrules, wires, and crimping tool are given in the following table.

Terminal types	Manufacturer	Ferrule model number	Applicable wire (mm ² (AWG))	Crimping tool
Terminals other	Phoenix Contact	AI0,34-8	0.34 (#22)	Phoenix Contact (The figure in parentheses is the applicable wire size.)
than ground		AI0,5-8	0.5 (#20)	CRIMPFOX 6 (0.25 to 6 mm ² , AWG24 to 10)
terminals		AI0,5-10		
		AI0,75-8	0.75 (#18)	
		AI0,75-10		
		Al1,0-8	1.0 (#18)	
		Al1,0-10	1	
		Al1,5-8	1.5 (#16)	
		Al1,5-10		
Ground terminals		Al2,5-10	2.0 *	
Terminals other	Weidmuller	H0.14/12	0.14 (#26)	Weidmuller (The figure in parentheses is the applicable wire size.)
than ground terminals		H0.25/12	0.25 (#24)	PZ6 Roto (0.14 to 6 mm ² , AWG 26 to 10)
terminais		H0.34/12	0.34 (#22)	
		H0.5/14	0.5 (#20)	
		H0.5/16		
		H0.75/14	0.75 (#18)	
		H0.75/16	1	
		H1.0/14	1.0 (#18)	
		H1.0/16	1	
		H1.5/14	1.5 (#16)	
		H1.5/16	1	

* Some AWG 14 wires exceed 2.0 mm² 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.

Finished Dimensions of Ferrules



1.6 mm max. (except ground terminals)2.0 mm max. (ground terminals)

2.4 mm max. (except ground terminals)2.7 mm max. (ground terminals)

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.

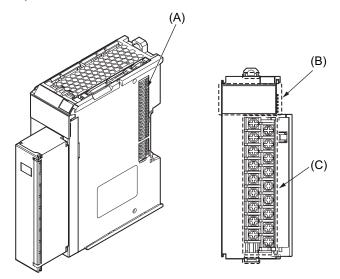
Torm		Wire	type				
Terminals		Twisted wires		Solid wire		Wire size	Conductor length (stripping length)
Classification Current capacity		Plated	Unplated	Plated	Unplated		(suppling length)
All terminals except ground terminals	2 A max.	Possible	Possible	Possible	Possible	0.08 to 1.5 mm ² AWG28 to 16	8 to 10 mm
	Greater than 2 A and 4 A or less		Not Possible	Possible *1	Not		
	Greater than 4 A	Possible *1		Not Possible	Possible		
Ground terminals		Possible	Possible	Possible *2	Possible *2	2.0 mm ²	9 to 10 mm

*1. Secure wires to the screwless clamping terminal block. Refer to the Securing Wires in the USER'S MANUAL for how to secure wires.
 *2 With the NX-TB___1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.

Conductor length (stripping length)

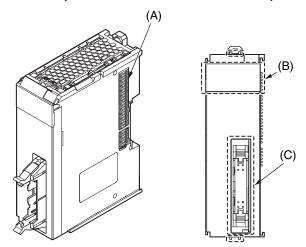
<Additional Information> If more than 2 A will flow on the wires, use plated wires or use ferrules.

M3 Screw Terminal Block Type NX Units (30 mm Width)



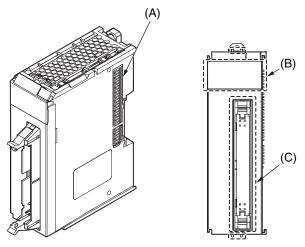
Letter	Name	Function	
(A)	NX bus connector	This connector is used to connect each Unit.	
(B)	Indicators	The indicators show the current operating status of the Unit.	
(C)	Screw terminals	These screw terminals are used to connect the wires.	

Connector Types NX Units (30 mm Width) • Units with MIL Connectors (1 Connector with 20 Terminals)



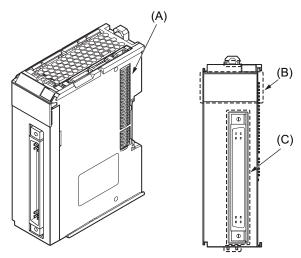
Letter	Name	Function
(A)	NX bus connector	This connector is used to connect each Unit.
(B)	Indicators	The indicators show the current operating status of the Unit.
(C)	Connectors	The connectors are used to connect to external devices.

• Units with MIL Connectors (1 Connector with 40 Terminals)



Letter	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)	Connectors	The connectors are used to connect to external devices.	

• Units with Fujitsu Connectors (1 Connector with 40 Terminals)

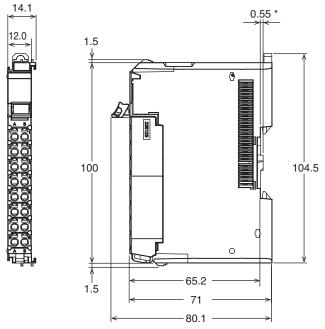


Letter	Name	Function		
(A)	NX bus connector	This connector is used to connect each Unit.		
(B)	Indicators	The indicators show the current operating status of the Unit.		
(C)	Connectors	The connectors are used to connect to external devices.		

(Unit/mm)

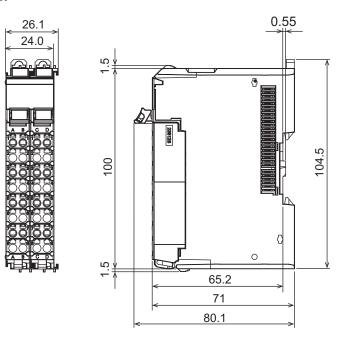
Dimensions

Screwless Clamping Terminal Block Type 12 mm Width

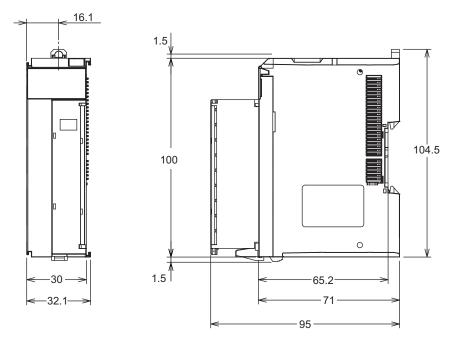


* The dimension is 1.35 mm for Units with lot numbers through December 2014.

24 mm Width



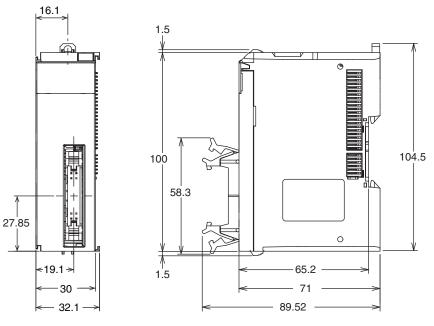
M3 Screw Terminal Block Type 30 mm Width



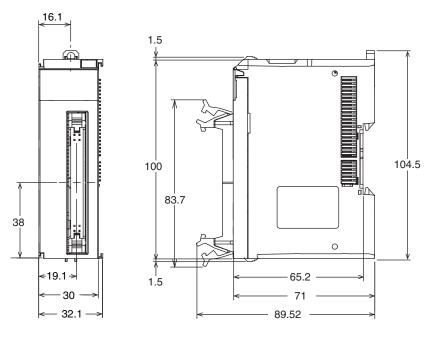
Connector Types

30 mm Width

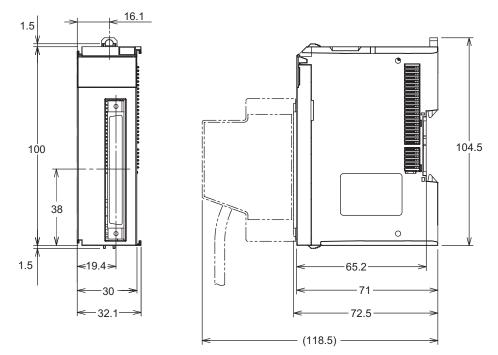
• Units with MIL Connectors (1 Connector with 20 Terminals)



• Units with MIL Connectors (1 Connector with 40 terminals)



•Units with Fujitsu Connectors (1 Connector with 40 Terminals)



Related Manuals

Cat. No.	Model number	Manual name	Application	Description
W521	NX-IA NX-ID NX-OD NX-OD NX-OC NX-MD	NX-series Digital I/O Units User's Manual	Learning how to use NX-series Digital I/O Units	The hardware, setup methods, and functions of the NX- series Digital I/O Units are described.

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Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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In the interest of product improvement, specifications are subject to change without notice.

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