NX-series Digital Output Units

NX-OD/OC

CSM_NX-OD_OC_DS_F_7_1

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.



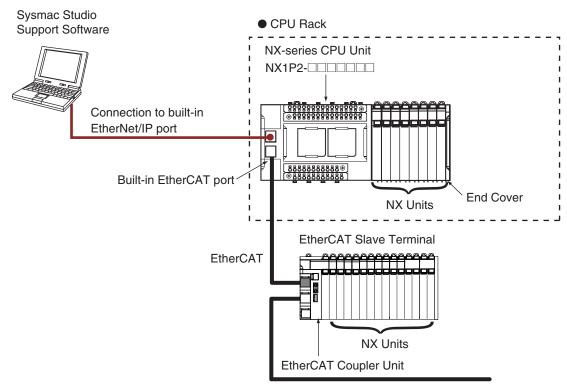
Features

- 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 high-precision output control independent of the control cycle of the Controller.
- Connection to the CJ-series is possible by connecting with the EtherNet/IP™ Coupler.

System Configuration

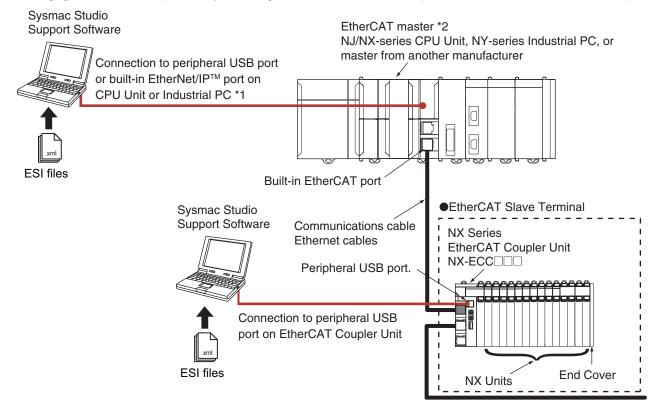
System Configuration in the Case of a CPU Unit

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
		O nainta	NPN	0.5 A/point, 1 A/Unit	24 VDC	Output refreshing with specified time	300 ns max./	NX-OD2154	
		2 points	PNP		24 VDC	stamp only*	300 ns max.	NX-OD2258	
			NIDAL		12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD3121	UC1, N, L,
	Transistor	put		0.5 A/point,			300 ns max./ 300 ns max.	NX-OD3153	CE, RCM, KC
NX-series	Output Unit				2 A/Unit	24 VDC		0.5 ms max./ 1.0 ms max.	NX-OD3256
Digital Output			PNP		24 VDO	Switching Synchronous I/O refreshing and Free-Run refreshing	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 nointo	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, KC
		16 points	NPN	4 A/Unit	12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD5121	
		16 points	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)

					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
NX-series Digital	Digital	10 mainta	NPN	0.5 A/point,	12 to 24 VDC	Switching Synchronous I/O refreshing	0.1 ms max./ 0.8 ms max.	NX-OD5121-1	UC1, CE,
		16 points	PNP	5 A/Unit	24 VDC	and Free-Run refreshing	0.5 ms max./ 1.0 ms max.	NX-OD5256-1	RCM, KC

● Transistor Output Units (MIL 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
Transistor Output		NPN	0.5 A/point,	12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD5121-5		
NX-series	Unit	16 points	PNP	2 A/Unit	24 VDC	Switching Synchronous I/O refreshing and Free-Run refreshing	0.5 ms max./ 1.0 ms max.	NX-OD5256-5	
Digital Output Unit	7	32 points	NPN	0.5 A/point,	12 to 24 VDC		0.1 ms max./ 0.8 ms max.	NX-OD6121-5	UC1, CE, RCM, KC
	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)

			Specification						
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		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	name i ""		ber Relay Maximum switching ints type capacity		I/O refreshing method	ON/OFF response time	Model	Standards
NX-series	NX-series Digital Output Unit N.O. 2 points N.O.+ N.C.	250 VAC/2A (cos¢=1) 250 VAC/2A (cos¢=0.4)		15ms max./	NX-OC2633	UC1, N, L, CE, RCM, KC		
Output		2 points		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)

16

Unit type	name Number III		Relay 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		Speci	fication		Model	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				NX-TBA082	
Terminal Block	12	A/B	None	10 A	NX-TBA122	

Accessories

Not included.

NX-TBA162

Connection Patterns for Connector-Terminal Block Conversion Units

Pattern	Configuration	Number of connectors	Branching
А	Connecting Cable Connector-Terminal Block Conversion Unit 20 or 40 terminals	4	None
В	Connecting Cable with two branches Connector-Terminal Block Conversion Unit 20 terminals 20 terminals	1	2 branches

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
				Α	None	XW2Z-□□□X	XW2B-20G4	None
NX-OD5121-5	16 outputs	1 MIL	NPN	Α	None	XW2Z-□□□X	XW2B-20G5	None
NA-OD5121-5	16 outputs	connector	INFIN	Α	None	XW2Z-□□□X	XW2D-20G6	None
				Α	None	XW2Z-□□□X	XW2R-J20G-T	None
			PNP	Α	None	XW2Z-□□□X	XW2B-20G4	None
NX-OD5256-5	16 outputs	1 MIL		Α	None	XW2Z-□□□X	XW2B-20G5	None
NA-OD3230-3	7D5256-5 16 Outputs	connector		Α	None	XW2Z-□□□X	XW2D-20G6	None
				Α	None	XW2Z-□□□X	XW2R-J20G-T	None
				Α	None	XW2Z-□□□K	XW2B-40G4	None
				Α	None	XW2Z-□□□K	XW2B-40G5	None
				Α	None	XW2Z-□□□K	XW2D-40G6	None
				Α	None	XW2Z-□□□K	XW2R-J40G-T	None
NX-OD6121-5	32 outputs	1 MIL	NPN	В	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
NA-OD6121-5	32 Outputs	connector	INFIN	В	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
				В	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
				В	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
				В	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes
				В	2	XW2Z-□□□N	XW2R-J20G-T (2 Units)	None
				Α	None	XW2Z-□□□B	XW2B-40G4	None
				Α	None	XW2Z-□□□B	XW2B-40G5	None
				Α	None	XW2Z-□□□B	XW2D-40G6	None
				Α	None	XW2Z-□□□B	XW2R-J40G-T	None
		4 = "		Α	None	XW2Z-□□□BU	XW2D-40C6	None
NX-OD6121-6	32 outputs	1 Fujitsu connector	NPN	В	2	XW2Z-□□□L	XW2B-20G4 (2 Units)	None
		Connector		В	2	XW2Z-□□□L	XW2B-20G5 (2 Units)	None
]	В	2	XW2Z-□□□L	XW2C-20G6-IO16 (2 Units)	Yes
				В	2	XW2Z-□□□L	XW2D-20G6 (2 Units)	None
				В	2	XW2Z-□□□L	XW2F-20G7-OUT16 (2 Units)	Yes
				В	2	XW2Z-□□□L	XW2R-J20G-T (2 Units)	None
				Α	None	XW2Z-□□□K	XW2B-40G4	None
				Α	None	XW2Z-□□□K	XW2B-40G5	None
				Α	None	XW2Z-□□□K	XW2D-40G6	None
				Α	None	XW2Z-□□□K	XW2R-J40G-T	None
NX-OD6256-5	22 outputs	1 MIL	PNP	В	2	XW2Z-□□□N	XW2B-20G4 (2 Units)	None
NA-OD0200-5	32 outputs	connector	FINE	В	2	XW2Z-□□□N	XW2B-20G5 (2 Units)	None
				В	2	XW2Z-□□□N	XW2C-20G6-IO16 (2 Units)	Yes
				В	2	XW2Z-□□□N	XW2D-20G6 (2 Units)	None
				В	2	XW2Z-□□□N	XW2F-20G7-OUT16 (2 Units)	Yes
				В	2	XW2Z-□□□N	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 environment	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/s², 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/s², 3 times each in X, Y, and Z directions			
Applicable s	tandards *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

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 TS indicator, output indicator	Internal I/O common	NPN		
		Rated voltage	24 VDC		
	OD2154 ■TS	Operating load voltage	15 to 28.8 VDC		
	= 0 = 1	range	13 to 20.0 VDO		
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		
	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.		
ouiou	Connected to a CPU Unit	pontoi ouppiy terminal	103. 0.0 / Violininai Iliax.		
NX Unit power	0.85 W max.	NO comment consumer!	20 mA may		
consumption	Connected to a Communications Coupler Unit	I/O current consumption	30 mA max.		
	0.45 W max.				
Weight	70 g max.				
			IOV0 to 1		
	***	r			
	Internal circuits				
	Il dir	ig i	OUT0 to OUT1 Terminal block		
	Internal circuits	Drive			
Circuit layout					
onoun layout					
			IOG0 to 1		
	NX bus		I/O power supply + 7 NX bus		
	connector (left) LI/O power supply –		I/O power supply – connector (right)		
	Live perior supply		I/O power supply – _ (right)		
	This unit uses a r	oush-pull output circuit.			
	Installation orientation:	<u> </u>			
Installation orientation and restrictions	 Connected to a CPU Unit: Possible in u Connected to a Communications Couple 		ions.		
	Restrictions: No restrictions				
	Additional I/O T	ransistor Output			
	Power Supply Unit	Unit NX-OD2154 Two-wire ty	/ne		
	A1 B1 A1	DUTO OUT1	,,,,		
Terminal connection	I I I I I I I I I I I I I I I I I I I	IOV • IOV•	Three-wire type		
diagram	24 VDC				
	IOV IOV	IOG IOG			
		<u> </u>	— Ш		
	IOG IOG	NC NC			
	A8 B8 _ A8				
Disconnection/					
Short-circuit detection	Not supported.	Protective function	Not supported.		
actection					

Unit name	Transistor Output Unit	Model	NX-OD2258
Number of points	2 points	External connection	Screwless clamping terminal block
I/O refreshing method	Output refreshing with specified time stamp	terminals	(8 terminals)
70 refreshing method	TS indicator, output indicator	Internal I/O common	PNP
	OD2258	Rated voltage	24 VDC
	■TS ■0 ■1	Operating load voltage 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 MΩ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
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	'	oush-pull output circuit.	OUT0 to OUT1 Terminal block IOG0 to 1 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 OIOV IOV OIOG IOG 24 VDC	Tansistor Output Unit NX-OD2258 DUT0 OUT1 IOV IOV IOG IOG NC NC B1 Two-wire ty	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)	
I/O refreshing method	Selectable Synchronous I/O refreshing or I	Free-Run refreshing		
	TS indicator, output indicator	Internal I/O common	NPN	
	OD3121 ■TS	Rated voltage	12 to 24 VDC	
	■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.	
Dimensions	12 (M) × 100 (H) × 71 (D)	ON/OFF response time Isolation method	0.1 ms max./0.8 ms max.	
	12 (W) x 100 (H) x 71 (D) 20 MΩ min. between isolated circuits (at		Photocoupler isolation 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 0.90 W max.			
NX Unit power consumption	Connected to a Communications	I/O current consumption	10 mA max.	
Consumption	Coupler Unit 0.55 W max.			
Weight	70 g max.			

	OUTO to OUT3			
			Terminal block	
Circuit layout				
		 		
		W	OG0 to 3	
	540		100	
	NX bus connector I/O power supply +		I/O power supply + NX bus connector	
	(left) L I/O power supply –		I/O power supply – _ (right)	
Installation evicetation	Installation orientation:	pright installation		
Installation orientation and restrictions	 Connected to a CPU Unit: Possible in u Connected to a Communications Couple 		ions.	
	Restrictions: No restrictions			
		ransistor Output		
	Power Supply Unit	Unit NX-OD3121		
	A1 B1 A1	OUT0 OUT1	e	
		IOV0 IOV1		
Terminal connection	●IOG IOG	1999 1994	Three-wire type	
diagram	12 to 24 VDC	OUT2 OUT3	 □ "	
	IOV IOV	IOV2 IOV3●	 	
		IOG2 IOG3●	<u> </u>	
	IOG IOG			
	A8 B8 _ A8	B8		
Disconnection/				
Short-circuit	Not supported.	Protective function	Not supported.	
detection				

Unit name	Transister Outnut Unit	Model	NX-OD3153		
Unit name	Transistor Output Unit	External connection	Screwless clamping terminal block (12		
Number of points	4 points	terminals	terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or F				
	TS indicator, output indicator	Internal I/O common	NPN		
	OD3153	Rated voltage	24 VDC		
	■0 ■1 ■2 ■3	Operating load voltage 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.		
. .	10 (11) 100 (11) 71 (7)	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 $M\Omega$ 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 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 0.50 W max.	I/O current consumption	30 mA max.		
Weight	70 g max.				
Circuit layout	NX bus connector (left) NX bus connector (left) N/O power supply -	n-pull output circuit.	OUT0 to OUT3 Terminal block I/O power supply + NX bus connector (right)		
Installation orientation and restrictions	Installation orientation: 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	Additional I/O Power Supply Unit A1 B1 A1 IOG IOG IOV IOV IOG IOG A8 B8 A8	Transistor Output Unit NX-OD3153 Two-wire ty	Three-wire type		
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.		

Unit name	Transistar Output Unit	Model	NX-OD3256		
Unit name	Transistor Output Unit	External connection	Screwless clamping terminal block (12		
Number of points	4 points	terminals	terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or F	ree-Run refreshing			
	TS indicator, output indicator	Internal I/O common	PNP		
	OD3256 ■TS	Rated voltage	24 VDC		
	■0 ■1 ■2 ■3	Operating load voltage 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	0.5 ms max./1.0 ms max.		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation		
Insulation resistance	$20~\text{M}\Omega$ 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 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 – Installation orientation:	NX bus connector (I/O power supply +			
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 NX-OD3256 A1 B1 OUT0 OUT1 IOV0 IOV1 IOV0 IOV1 IOV2 IOV3 IOG2 IOG3 IOG IOG3 A8 B8 B8 A8 B8				
Disconnection/ Short-circuit detection	Not supported.	With load short-circuit protection.			

Unit name	Transistor Output Unit	Model	NX-OD3257		
Number of points	4 points	External connection terminals	Screwless clamping terminal block (12 terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or F		,		
<u> </u>	TS indicator, output indicator	Internal I/O common	PNP		
	OD3257	Rated voltage	24 VDC		
	■TS ■0 ■1	Operating load voltage range	15 to 28.8 VDC		
Indicators	■2 ■3	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.		
	10 (11) 100 (11) 71 (7)	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	$20~\text{M}\Omega$ 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 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	NX bus connector (left) NX bus connector (left) I/O power supply - This unit uses a pust Installation orientation:	n-pull output circuit.	IOV0 to 3 Terminal block OUT0 to OUT3 I/O power supply + NX bus connector (right)		
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	Additional I/O Power Supply Unit A1 B1 A1 FIOS IOS IOS IOS IOS IOS A8 B8 A8	Transistor Output Unit NX-OD3257 OUT0 OUT1 IOV0 IOV1 IOG0 IOG1 OUT2 OUT3 IOV2 IOV3 IOG2 IOG3 B8	Three-wire type		
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.		

Unit name	Transistor Output Unit	Model	NX-OD3268		
Number of points	4 points	External connection terminals	Screwless clamping terminal block (16 terminals)		
I/O refreshing method	Switching Synchronous I/O refreshing and	Lava			
	TS indicator, output indicator		PNP		
	OD3268	Rated voltage	24 VDC		
	■TS ■0 ■1	Operating load voltage range	15 to 28.8 VDC		
Indicators	=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.		
n	10 (10) 100 (11) 71 (7)	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 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.		
NX Unit power consumption	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.		
Weight	70 g max.				
Circuit layout	NX bus connector (left) NX bus supply + I/O power supply - I/O power	Short-circuit	IOV 0 to IOV 3 COM (+V) OUT 0 to OUT 3 IOG 0 to IOG 3 OV I/O power supply + I/O power supply - I/O power		
Installation orientation and restrictions	Installation orientation: 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	OUT0 OUT1 • IOV0 IOV1				
Disconnection/ Short-circuit detection	Not supported.	With load short-circuit protection.			

Unit name	Transistor Output Unit	Model	NX-OD4121
Number of points	8 points	External connection	Screwless clamping terminal block (16
<u> </u>	<u>'</u>	terminals	terminals)
I/O refreshing method	Selectable Synchronous I/O refreshing or F TS indicator, output indicator	Internal I/O common	NPN
	OD4121	Rated voltage	12 to 24 VDC
	■TS ■0 ■1	Operating load voltage	10.2 to 28.8 VDC
	= 2 = 3	range	10.2 to 26.8 VDC
Indicators	■4 ■5 ■6 ■7	Maximum value of load current	0.5 A/point, 4 A/Unit
		Maximum inrush current	' '
		Leakage current	0.1 mA
		Residual voltage ON/OFF response time	1.5 V max. 0.1 ms max./0.8 ms max.
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 MΩ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max
I/O power supply	,	Current capacity of I/O	-
method	Supply from the NX bus	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) I/O power supply - I/O power supply - Installation orientation:		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 IOV IOV IO IO IO IO IO IO IO	G 10G 10V0 10 G 10G 0UT2 01 G 10G 10V2 10 G 10G 0UT4 01 G 10G 10V4 10 OUT6 0I	·
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	Screwless clamping terminal block (16
<u> </u>	Selectable Synchronous I/O refreshing or F	terminals	terminals)
I/O refreshing method	TS indicator, output indicator	Internal I/O common	PNP
	OD4256	Rated voltage	24 VDC
	■TS	Operating load voltage	
	■0 ■1 ■2 ■3	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 - I/O power supply - Installation orientation:	Short-circuit protection	OUT0 to OUT7 IOG0 to 7 I/O power supply + I/O power supply - I/O power supply -
Installation orientation and restrictions	Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions		ions.
Terminal connection diagram	10V		Three-wire type
Disconnection/ Short-circuit detection	Not supported.	Protective function	With load short-circuit protection.

INX-ODS121	T	I	I		
Unit name	Transistor Output Unit	Model	NX-OD5121		
Number of points	16 points	External connection terminals	Screwless clamping terminal block (16 terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or F		Lucu		
	TS indicator, output indicator	Internal I/O common	NPN		
	OD5121 ■TS	Rated voltage	12 to 24 VDC		
	m0 m1 m2 m3 m4 m5 m6 m7	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, 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.		
Dimensions	10 (M) :: 100 (H) :: 71 (D)	ON/OFF response time	0.1 ms max./0.8 ms max.		
Dimensions	12 (W) x 100 (H) x 71 (D) 20 MΩ min. between isolated circuits (at	Isolation method	Photocoupler isolation 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	Without I/O power supply terminals		
	Connected to a CPU Unit 1.00 W max.				
NX Unit power consumption	Connected to a Communications	I/O current consumption	20 mA max.		
Consumption	Coupler Unit 0.65 W max.				
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply + I/O power supply - I/O pow		OUT0 to OUT15 Terminal block I/O power supply + NX bus connector (right)		
Installation orientation and restrictions	Installation orientation: 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	Additional I/O Power Supply Unit A1 B1 IOV	Tansistor Output Unit NX-OD5121 B1 Two-wire type OUT0 OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8 OUT9 OUT10 OUT11 OUT12 OUT112 OUT114 OUT15 OUT14 OUT15 OUT14 OUT15 OUT14 OUT15 OUT14 OUT15			
Disconnection/ Short-circuit detection	Not supported.	Not supported.			

Unit name	Transistor Output Unit	Model	NX-OD5256	
Number of points	16 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	
	OD5256 ■TS	Rated voltage	24 VDC	
	m 0 m 1 m 2 m 3 m 4 m 5 m 6 m 7	Operating load voltage 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.	
<u> </u>	10 (11) 100 (11) 71 (7)	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 –	Short-diruit protection	OUT0 to OUT15 Terminal block 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	IOV IOV	Connection Unit	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

Unit name	Transistor Output Unit	NX-OD5121-1			
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	NPN		
	OD5121−1	Rated voltage	12 to 24 VDC		
	■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.				
Circuit layout	NX bus connector (left) NX bus connector supply + I/O power supply -		OUT0 to OUT15 Terminal block COM I/O power supply + I/O power supply - I/O power suppl		
Installation orientation and restrictions	Installation orientation: 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	Terminal A B Signal name A Sig				
Disconnection/ Short-circuit detection	Not supported.	Protective function	Not supported.		

NX-OD5256-1

Unit name	Transistor Output Unit	Model	NX-OD5256-1		
		External connection			
Number of points	16 points	terminals	M3 screw terminal block (18 terminals)		
I/O refreshing method	Switching Synchronous I/O refreshing and	_	DND		
	TS indicator, output indicator	Internal I/O common Rated voltage	PNP 24 VDC		
	OD5256-1 = 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) NX bus connector supply + I/O power supply -	Short-circuit	OUT0 to OUT15 OV I/O power supply + I/O power supply - I/O power sup		
Installation orientation and restrictions	Installation orientation: 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	Terminal Signal name A B Signal name OUTO A0 OUT1 L OUT2 A1 OUT3 L OUT4 A2 OUT5 L OUT6 A3 OUT7 L OUT10 A5 B5 OUT11 L OUT12 A6 OUT13 L OUT14 A7 OV A8 B8 COM (+V) OUT15 OUT15				
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		Мо	del		NX-OD5121-5	
Number of points	16 points			ernal connection minals		MIL connector (20 terminals)	
I/O refreshing method	Switching Synchronous I/O re	freshing and	Free-Run r	efreshing			
	TS indicator, output indicator		Inte	ernal I/O common		NPN	
	OD5121-5		+	ed voltage		12 to 24 VDC	
		■ TS	Op- ran	erating load volta	ge	10.2 to 28.8 VDC	
Indicators	■0 ■1 ■2 ■3 ■4 ■5 ■8 ■9 ■10 ■11 ■12 ■13		Ma	ximum value of lo rent	ad	0.5 A/point, 2 A/Unit	
				ximum inrush cur	rent	4.0 A/point, 10 ms max.	
			Lea	kage current		0.1 mA max.	
			Res	sidual voltage		1.5 V max.	
			ON	OFF response tin	ne	0.1 ms max./0.8 ms max.	
Dimensions	30 (W) x 100 (H) x 71 (D)		Iso	lation method		Photocoupler isolation	
Insulation resistance	20 M Ω min. between isolated (at 100 VDC)	circuits	Die	lectric 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			rrent capacity of lever supply termin		Without I/O power supply terminals	
NX Unit power consumption	Connected to a CPU Unit 0.95 W max. Connected to a Communication 0.60 W max.	ations Coupl	Curler Unit I/O	rrent consumption power supply	n from	30 mA max.	
Weight	80 g max.						
Circuit layout	NX bus / I/O power supply + O-connector / I/O power supply - O-con	Internal circuits			C C	Connector OM OM O power supply + O power supply - NX bus connector (right)	
Installation orientation and restrictions	Connected to a CPU Unit: Connected to a Communic Restrictions: No restrictions	Possible in ι ations Coup	upright insta bler Unit: Pos	llation. ssible in 6 orientatio	ons.		
	Signal	Connector	Signal				
	12 to name	pin	name				
	+	1 2	_	-	•		
	COM	3 4	СОМ				
	L OUT15	5 6	_		•		
-	L OUT14	7 8	OUT06		•		
Terminal connection diagram	L OUT13	9 10	OUT05		•		
3	L OUT12	11 12	OUT04		•		
	OUT11	13 14	OUT03		•		
	OUT10	15 16	OUT02		•		
	OUT09	17 18	OUT01		•		
	OUT08	19 20	OUT00				
	Be sure to wire both pins 3 and 4 Be sure to wire both pins 1 and 2						
Disconnection/Short-circuit detection	Not supported.		Pro	tective function		Not supported.	

NX-OD5256-5

Unit name	Transistor Output Unit	Model	NX-OD5256-5	
Offic fiame	Transistor Output Onit	External connection	NA-OD5256-5	
Number of points	16 points	terminals	MIL connector (20 terminals)	
I/O refreshing method	Switching Synchronous I/O refreshing and Free-		T	
	TS indicator, output indicator	Internal I/O common	PNP	
	OD5256-5 ■ TS	Rated voltage	24 VDC	
	■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, 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	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	Supplied 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 Uni 0.70 W max.	Current consumption from I/O power supply	40 mA max.	
Weight	85 g max.			
Circuit layout	NX bus connector (left) NX bus connector (left)			
Installation orientation and restrictions	Installation orientation: Connected to a CPU Unit: Possible in upright Connected to a Communications Coupler Un Restrictions: No restrictions	t installation. it: Possible in 6 orientations.		
Terminal connection diagram	OV 3 4 0V OUT15 5 6 0 L OUT14 7 8 0 L OUT13 9 10 00 L OUT12 11 12 00 L OUT11 13 14 00 L OUT10 15 16 00 L OUT09 17 18 00	Signal name OM (+V) // UT07 UT06 L UT05 UT04 L UT03 L UT02 UT01 UT01 L UT00 L		
Disconnection/Short-circuit detection	Be sure to wire both pins 3 and 4 (0V). Not supported.	Protective function	With load short-circuit protection.	
	l .		1	

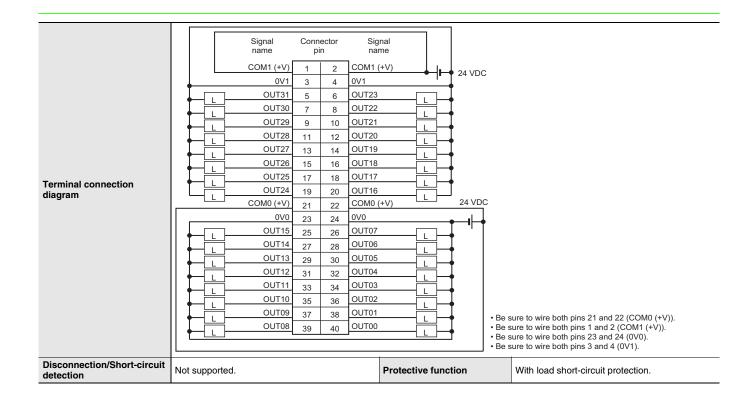
NX-OD6121-5

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
	■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	0.1 ms max./0.8 ms max.
Dimensions	30 (W) x 100 (H) x 71 (D)	Isolation method	Photocoupler isolation
Insulation resistance	20 MΩ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
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	NX bus connector (left) I/O power supply -	+V0 +V0 OUT0 to OUT15 COM0 COM0 +V1 +V1 +V1 OUT16 to OUT31	connector
Installation orientation and restrictions	Installation orientation: Connected to a CPU Unit: Possible in upright in Connected to a Communications Coupler Unit Restrictions: No restrictions	installation.	7.5.

	12 to		Signal name		nector	Signal name					
	24 V	DC	+V1	1	2	+V1		→			
	- ⊩	_	COM1	3	4	COM1					
		-	OUT31	5	6	OUT23	——————————————————————————————————————	─			
	—	-	OUT30	7	8	OUT22	-	→			
	<u> </u>	-	OUT29	9	10	OUT21					
	<u> </u>	-	OUT28	11	12	OUT20					
	│	-	OUT27	13	14	OUT19					
	<u> </u>	一门	OUT26	15	16	OUT18	_				
Terminal connection		片	OUT25	17	18	OUT17					
diagram		OUT24 +V0	19	20	OUT16						
alagram			+V0	21	22	+V0					
			COM0	23	24	COM0			1		
			—	OUT15	25	26	OUT07	——————————————————————————————————————	→		
			OUT14	27	28	OUT06	-				
			OUT13 29 30 OUT05								
			OUT12	31	32	OUT04					
			OUT11	33	34	OUT03					
	II	-	OUT10	35	36	OUT02	-	→			
	12 to		OUT09	37	38	OUT01	_		. B	e sure to wire both pins 21 and 22 (+V0).	
	24 VDC	╬	OUT08	39	40	OUT00	┵┼┼		• Be	e sure to wire both pins 23 and 24 (COM0).	
	🕂 🕕 📗	LL	<u> </u>			•				e sure to wire both pins 1 and 2 (+V1). e sure to wire both pins 3 and 4 (COM1).	
									1 2		
Disconnection/Short-circuit detection	Not supported.					Protecti	ve funct	ion		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)	
I/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 ■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 ■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 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 1.30 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.			
Circuit layout	NX bus connector (left) I/O power supply + I/O power supply -	Short-circuit protection protection protection protection	COM0 (+V) COM0 (+V) OUT0 to OUT15 OV0 COM1 (+V) COM1 (+V) OUT16 to OUT31 OV1 OV1 I/O power supply + I/O power supply - I/O power supply - I/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			



● 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 terminals	Fujitsu 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
	OD6121-6	Rated voltage Operating load voltage range	12 to 24 VDC 10.2 to 28.8 VDC
Indicators	■0 ■1 ■2 ■3 ■4 ■5 ■6 ■7 ■8 ■9 ■10 ■11 ■12 ■13 ■14 ■15	Maximum value of load current	0.5 A/point, 2 A/common, 4 A/Unit
	■16 ■17 ■18 ■19 ■20 ■21 ■22 ■23	Maximum inrush current	4.0 A/point, 10 ms max.
	■24 ■25 ■26 ■27 ■28 ■29 ■30 ■31	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 1.10 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	NX bus connector (left)	internal circuits in the second secon	> +V0 +V0 +V0 > OUT0 to OUT15 COM0 > V1 > +V1 > +V1 > OUT16 to OUT31 COM1 /O power supply + /O power supply - /O power supply -
Installation orientation and restrictions	Installation orientation: Connected to a CPU Unit: Possible in upright Connected to a Communications Coupler Unit Restrictions: No restrictions		
Terminal connection diagram	12 to 24 VDC		
Disconnection/	Not supported.	Protective function	Not supported.
Short-circuit detection	ivot supported.	r rotective function	not supported.

● 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: $20~M\Omega$ min. (500 VDC) Between the external terminals and internal circuits: $20~M\Omega$ min. (500 VDC) Between the internal circuit and GR terminal: $20~M\Omega$ min. (100 VDC) Between the external terminals and GR terminal: $20~M\Omega$ 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/s² 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)	Shock resistance	100 m/s², 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	Interna	I power pply	0 to 1 Terminal block C0 to C1 I/O power supply + I/O power supply - I/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	Relay Output Unit NX-OC2633 B1 Load 0 C0			
Disconnection/	Not supported. Protective function Not supported.			

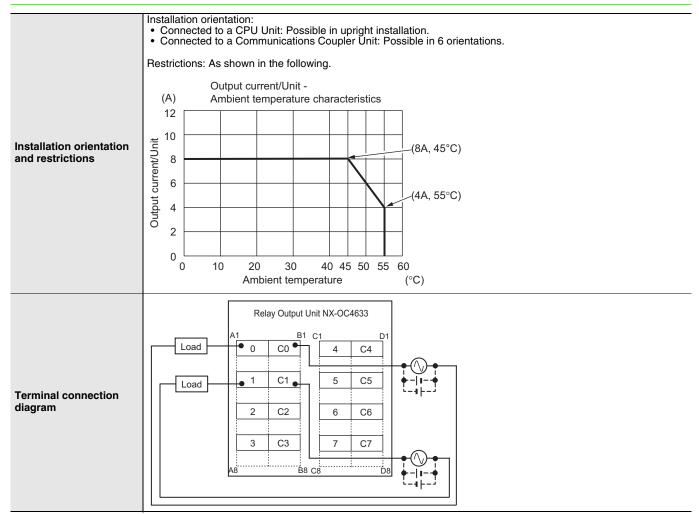
^{*} Electrical service life will vary depending on the current value. Refer to "NX-series Digital I/O Units User's Manual" for details.

● 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 ■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
			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: $20~M\Omega$ min. (at $500~VDC$) Between the external terminals and functional ground terminal: $20~M\Omega$ min. (at $500~VDC$) Between the external terminals and internal circuits: $20~M\Omega$ min. (at $500~VDC$) Between the internal circuit and the functional ground terminal: $20~M\Omega$ 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 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 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.		
Circuit layout			NO0 to NO1 C0 to C1 Terminal block I/O power supply + I/O power supply - I/O power supply - I/O power supply - I/O and NC1 are normal close contacts.
Installation orientation and restrictions	Installation orientation: Connected to a CPU Unit: Possible in up Connected to a Communications Couple Restrictions: No restrictions		iions.
Terminal connection diagram	Relay Output Unit NX-OC2733 B1 Load NO0 NC0 C0 C0 NO1 NC1 C1 C1 A8 B8	P	
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 O II 2 II	Relay type Maximum switching capacity	N.O. contact 250 VAC/2 A (cosφ = 1), 250 VAC/2 A (cosφ = 0.4), 24 VDC/2 A, 8 A/Unit	
	■4 ■ 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: $20~M\Omega$ min. (at $500~VDC$) Between the external terminals and the functional ground terminal: $20~M\Omega$ min. (at $500~VDC$) Between the external terminals and internal circuits: $20~M\Omega$ min. (at $500~VDC$) Between the internal circuit and the functional ground terminal: $20~M\Omega$ min. (at $100~VDC$)	Dielectric strength	Between output bits: 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 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 the functional ground terminal: 510 VAC for 1 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 connector (left) NX bus connector (left) NX bus connector I/O power supply +		O to 7 Terminal block C0 to C7 Terminal block I/O power supply + NX bus connector (right)	



^{*} 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 Uni	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			
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 Uni	it		Co	rresponding version	ons *1	
		EtherCAT EtherNet/IP			et/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		ver. i. i oi iatei	*2	ver.1.07 or nigher		
NX-OD3121						
NX-OD3153				Ver.1.06 or higher		Ver.1.10 or higher
NX-OD3256				ver. 1.00 or riigher		ver. i. io or riigher
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		Vol. 1. 10 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 or riigher		ver. i. io or riigher
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

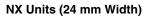
^{*1.} Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

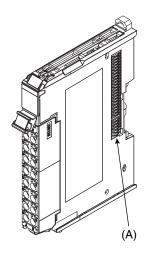
^{*2.} If you use a CPU Unit, the instructions for time stamp refreshing are supported by CPU Units with unit version 1.06 or later. If you do not use instructions for time stamp refreshing, you can use version 1.05. Refer to the instructions reference manual for the connected CPU Unit or Industrial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

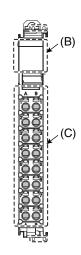
External Interface

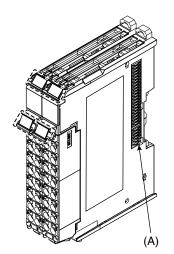
Screwless Clamping Terminal Block Type

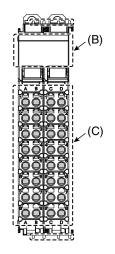
NX Units (12 mm Width)





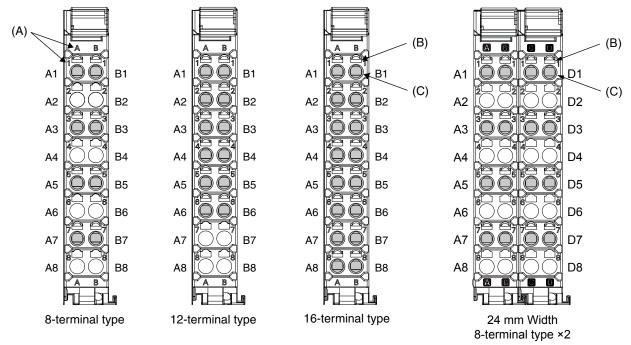






Symbol	ol Name Function	
(A)	NX bus connector	This connector is used to connect each Unit.
(B)	Indicators	The indicators show the current operating status of the Unit.
(C)	Terminal block	The terminal block is used to connect external devices. The number of terminals depends on the type of Unit.

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					
Offit filodei	Model	No. of terminals	Ground terminal mark	Terminal current capacity		
NX-OD2□□□	NX-TBA082	8	None	10 A		
NX-OD3□□□ (any model other than NX-OD3268)	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-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.

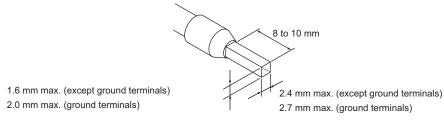
The applicable ferrules, wires, and crimping tool are given in the following table.

Terminal types	Manufacturer	Ferrule model number	Applicable wire (mm² (AWG))	Crimping tool
Terminals other than ground	Phoenix Contact	AI0,34-8	0.34 (#22)	Phoenix Contact (The figure in parentheses is the applicable wire size.)
		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		
		AI1,0-8	1.0 (#18)	
		Al1,0-10	†	
		Al1,5-8	1.5 (#16)	
		Al1,5-10		
Ground terminals		AI2,5-10	2.0 *	
Terminals other		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 mm², 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		
		H1.0/14	1.0 (#18)	
		H1.0/16	1	
		H1.5/14	1.5 (#16)	
		H1.5/16	†	

^{*} 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



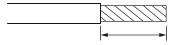
Using Twisted Wires/Solid Wires

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

Terminals		Wire type				Wire size	Conductor length (stripping length)
		Twisted wires		Solid wire			
Classification	Current capacity	Plated	Unplated	Plated	Unplated	(Stripping leng	
	2 A max.		Possible	Possible	Possible		
All terminals except ground terminals	Greater than 2 A and 4 A or less	Possible	Not Possible	Possible *1	Not	0.08 to 1.5 mm ² AWG28 to 16	8 to 10 mm
	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 \Box 1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.

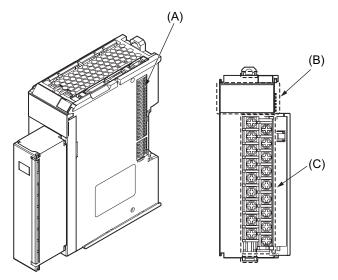


Conductor length (stripping length)

< 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)

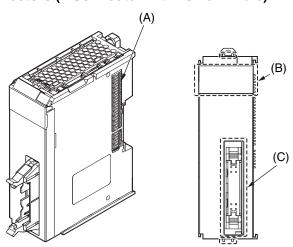


Letter	Letter Name Function	
(A)	NX bus connector	This connector is used to connect each Unit.
(B) Indicators The indicators show the current operating status of the Unit.		The indicators show the current operating status of the Unit.
(C)	Screw terminals	These screw terminals are used to connect the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

Connector Types

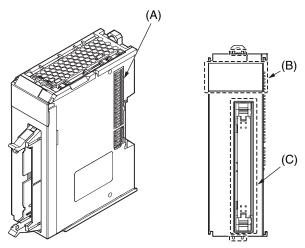
NX Units (30 mm Width)

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



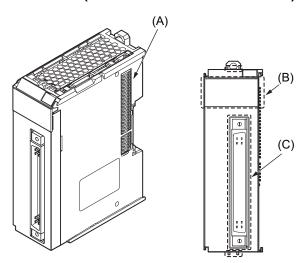
Letter	Name	Function	
(A)	NX bus connector	This connector is used to connect each Unit.	
(B)	Indicators	The indicators show the current operating status of the Unit.	
(C)	Connectors	The connectors are used to connect to external devices.	

• 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.		The indicators show the current operating status of the Unit.	
(C)	Connectors	The connectors are used to connect to external devices.	

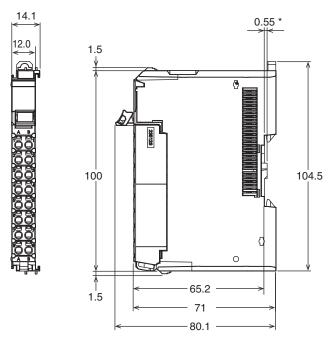
• Units with Fujitsu Connectors (1 Connector with 40 Terminals)



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.		The indicators show the current operating status of the Unit.	
(C)	Connectors	The connectors are used to connect to external devices.	

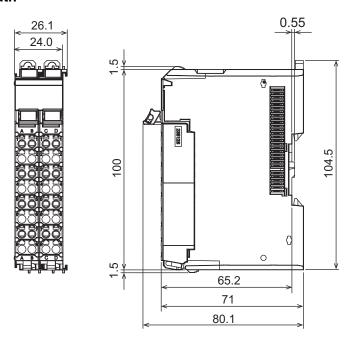
Dimensions (Unit/mm)

Screwless Clamping Terminal Block Type 12 mm Width

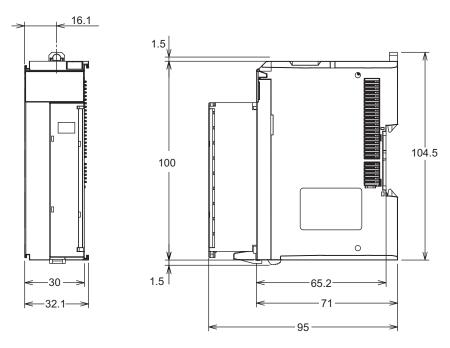


 $^{^{\}star}$ The dimension is 1.35 mm for Units with lot numbers through December 2014.

24 mm Width



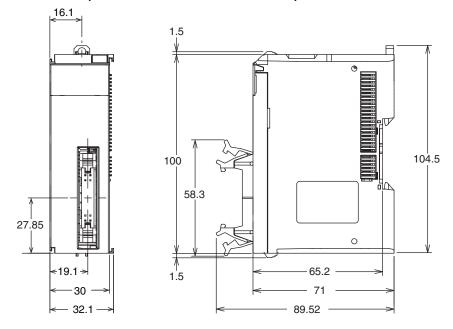
M3 Screw Terminal Block Type 30 mm Width



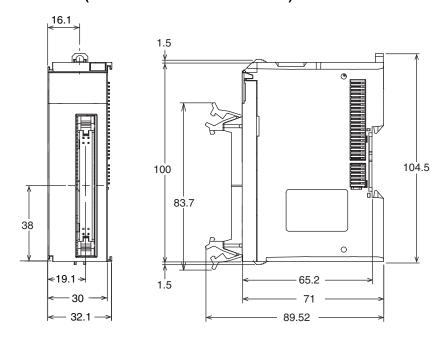
Connector Types

30 mm Width

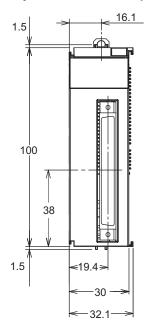
• Units with MIL Connectors (1 Connector with 20 Terminals)

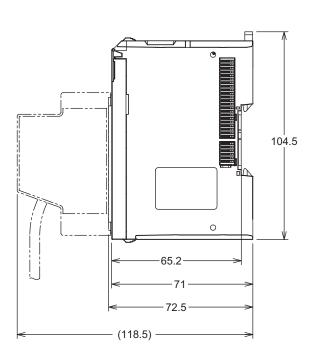


• Units with MIL Connectors (1 Connector with 40 terminals)



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





Related Manuals

Cat. No.	Model number	Manual name	Application	Description
W521	NX-IA OOO OO OO OOO OO OOO OOO OOO OOO OOO	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.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

- (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
- (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED. ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE

PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

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.

2016.10

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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for I/O Modules category:

Click to view products by Omron manufacturer:

Other Similar products are found below:

70L-IDC5S 70L-OAC-L 70Z3289-4 G21960000700 G21960002700 G34960002700 G88104401 OACU C4SWOUT PB16H
G34960001700 G3TA-OA101SZ-1 DC24 G77-S G78-16-E 5607189 DA5 ODC-24A IDC5P FC6A-N16B1 6421 FC6A-N32B3
70MRCQ32-HL G3TAOD201SDC24 C200H-LK201-V1 G3TA-OA202SZ-US DC12 GT1-OD16 GT1-AD04CST B7AM-6BS 70GRCQ24-HS 6422 84110410 GT1-OD16MX G7VC-OC16-B7 70MRCK24-DIN 6202 6402 PI/NI-2D/24 FC6A-J2C1 FC6A-KC1C FC6A-R081
FC6A-J8CU1 GP32900003700 641-480-5022 PB16H 84145010 84110210 FRUSB1601 PCL-720+-BE FRRJ451601 AP24MX3DB25F