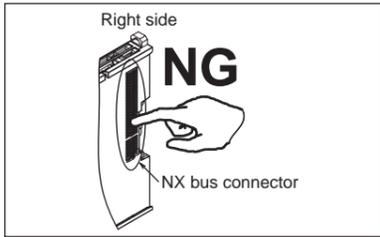
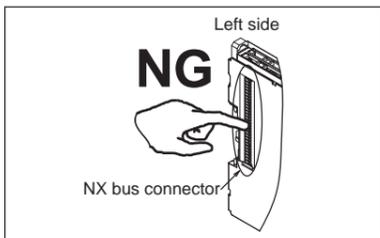


Do not touch the NX bus connector



9544307-3A

**OMRON**  
**NX series INSTRUCTION SHEET**

© OMRON Corporation 2016 All Rights Reserved.

**Precautions for Compliance with  
UL Standards, CSA Standards  
and EU Directives**

**Notice to Users of the NX series components in  
USA, Canada and Europe**

This manual must be consulted in all cases in order to find out the nature of the potential HAZARDS and any actions which have to be taken to avoid them.

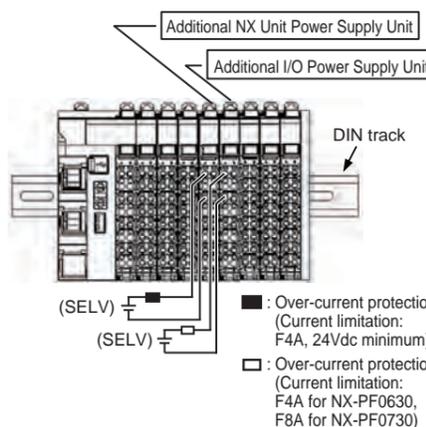
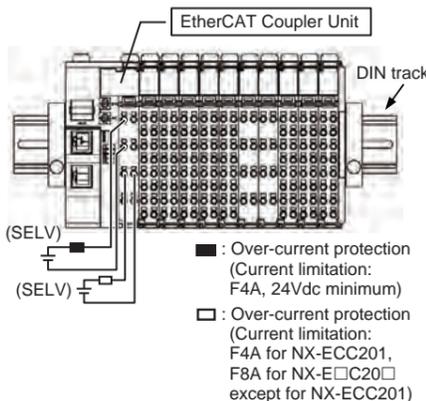
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

**●Environment**

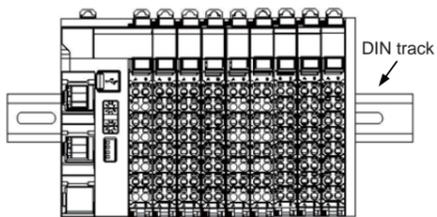
Surrounding Air Temperature: 0 to 55°C  
Surrounding Air Humidity: 10% to 95%  
Indoor use only  
Altitude: Max. 2,000 m  
Installation environment: Pollution Degree 2

**●Current restrictions from power supply connector**

The external power supplies must be DC power supplies that satisfy the SELV requirements. It must be equipped with an over-current protection with current limitation.



**●Direction for installation**  
Vertical only.



**●Cleaning**

Do not use paint thinner or similar chemical to clean with. Use a dry cloth.

**●Cable**

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

**●Enclosure type**

You must use this product in a control board.  
Enclosure type: Type 1 or more.

**●Marking**

⚡ : Functional Earth Terminal

**●Power consumption**

NX unit power consumption is as follows:  
NX-OC4633 : 1.65W

**Conformance to UL Standards and CSA Standards**

**●Compliance with Class I Division 2 Hazardous Location:**

Input and output wiring must be in accordance with Class I, Div. 2 wiring methods and in accordance with the authority having jurisdiction.

1. This equipment is suitable for use in Class I, Div.2, Group A, B, C, D or Non-Hazardous Locations Only.
2. WARNING : Explosion Hazard - Do not Disconnect Equipment Unless Power Has Been Switched off or the Area Is Known to Be Non-Hazardous.
3. This device is open-type and is required to be installed in an enclosure suitable for the environment and can only be accessed with the use of a tool or key.

1. Cet équipement convient à l'utilisation dans des emplacements de Classe I, Division 2, Groupes A, B, C, D, ou ne convient qu'à l'utilisation dans des endroits non dangereux.
2. AVERTISSEMENT : Risque d'explosion - Avant de débrancher l'équipement, couper le courant ou s'assurer que l'emplacement est désigné non dangereux.
3. Ce dispositif est de type ouvert et doit être installé dans un coffret adapté à l'environnement et auquel on ne pourra accéder uniquement au moyen d'un outil ou d'une cle.

**Conformance to EU Directives**

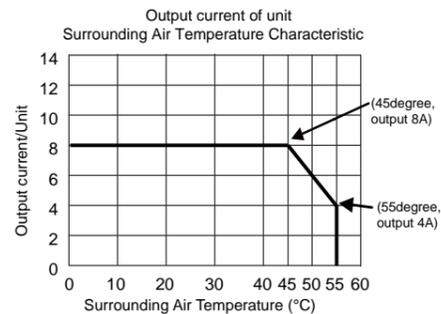
This product is EMC-compliant when assembled in PLC system or Machine Automation Controller. To ensure the EU Directive conformance of customer's machinery or equipment in which the product is incorporated, be sure to observe the following precautions.

1. This product is defined as an in-panel device and must be installed within a control panel.
2. The SELV requirements must be satisfied for the DC power supply connected to the DC Power Supply Unit, Communications Unit, and I/O Unit.
3. This product complies with the common emission standard (EN61131-2, EN61000-6-4) with regard to EMI. For the radiated emission requirement (10-m regulations), in particular, please note that the actual emission varies depending on the configuration of the control panel to be used, the connected devices, and wiring methods. Therefore, the customer must confirm the EU Directive conformance of the overall machinery or equipment by themselves, even if this EU conforming product is used.

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

**●Surrounding Air Temperature**

The rated temperature for all Units is 55°C. Type NX-OC4633 is suitable for a maximum surrounding air of 45°C when all 8A are energized. It is suitable for 55°C when 4A are energized.



**●Rating**

1. Pilot Duty contacts can only be used in max 40°C surrounding air temperature.

2. For output, do not use voltage above the levels of a) and below the levels of a) in one unit at the same time.

a) The a.c. voltage levels are 30V r.m.s., 42.4V peak and the d.c. voltage level is 24V.

3. OUTPUT:  
240V AC(GEN.), 2A/P, 8A/U  
240V AC(P.D.), 180VA/P, 720VA/U  
24V DC(GEN.), 2A/P, 8A/U  
8 POINTS  
NORMALLY OPEN

**●Operating Temperature Code**

T4A

**●Applicable wire size for Unit power source and IO power source terminal**

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

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

Wire size	Current (MAX)
AWG 24	2A
AWG 22	3A
AWG 20	5A
AWG 18	7A
AWG 16	10A

**●Applicable wire size for IO terminal**

Type	Wire size	Strip length
Solid/Strand	AWG 28-16	9mm

Do not use ferrule terminals. Insert the strand or solid wire directly into the holes on the terminal block.

**Conformance to KC Standards**

Observe the following precaution if you use NX-series Unit in Korea.

● A 급 기기 (업무용 방송통신기자재) 이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

Class A Device (Broadcasting Communications Device for Office Use)  
This device obtained EMC registration for office use (Class A), and it is intended to be used in places other than homes. Sellers and/or users need to take note of this.

**OMRON**

**OMRON Corporation** (Manufacturer)  
**Control Devices Division H.Q.**  
Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530  
Japan  
Tel: (81)75-344-7109  
Fax: (81)75-344-7149

**Regional Headquarters**  
**OMRON EUROPE B.V.** (Importer in EU)  
Wegalaan 67-69, 2132 JD Hoofddorp  
The Netherlands  
Tel: (31)2356-81-300  
Fax: (31)2356-81-388

**OMRON ELECTRONICS LLC**  
2895 Greenspoint Parkway, Suite 200 Hoffman  
Estates, IL 60169 U.S.A.  
Tel: (1) 847-843-7900  
Fax: (1) 847-843-7787

**OMRON ASIA PACIFIC PTE. LTD.**  
No. 438A Alexandra Road # 05-05/08 (Lobby 2),  
Alexandra Technopark, Singapore 119967  
Tel: (65)6835-3011  
Fax: (65)6835-2711

**OMRON (CHINA) CO., LTD.**  
Room 2211, Bank of China Tower, 200 Yin Cheng  
Zhong Road, PuDong New Area, Shanghai, 200120  
China  
Tel: (86)21-5037-2222  
Fax: (86)21-5037-2200

**Note:** Specifications are subject to change without notice.  
Printed in China