

OMRON

Instruction Manual for
NXR-SXD□□□□-□□□□

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5844918-5 B

Precautions for Compliance with
UL Standards and CSA Standards

Notice to Users of NXR-SXD□□□□-□□□□ components
in USA and Canada

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.This product is used as industrial equipment.

●Environment

- Ambient temperature: -10 to 55 °C
- Relative humidity: 25% to 85%
- Indoor use enclosure type 1
- Altitude: Max. 2,000 m
- Pollution Degree 3
- Protection Structure: IP67

●Ratings

Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for CIP Safety
NXR-SXD1204-CST

- [Unit/Input Power Supply]
24 VDC (-20% to +20%), MAX. 9.0 A,^{*1} SELV
(with internal consumption current of 0.22 A)
- [Output Power Supply]
24 VDC (-20% to +20%), MAX. 9.0 A,^{*1} SELV
(with internal consumption current of 0.04 A)
- [Safety input]
Safety input:24 VDC,4.5 mA/Point,SELV and LIM
- Digital input
- [Safety output]
Safety output:24 VDC (GEN) (P.D.),^{*2} 2.0 A/Point
- Digital output,Source output
- [Test output]
Test output:24 VDC (GEN) (P.D.),^{*2}0.7 A/Point
- Digital output,Source output

Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for CIP Safety
NXR-SXD1204B-CST

- [Unit/Input Power Supply]
24 VDC (-20% to +20%), MAX. 9.0 A, SELV
(with internal consumption current of 0.22 A)
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(with internal consumption current of 0.04 A)
- [Safety input]
Safety input:24 VDC,4.5 mA/Point,SELV and LIM
- Digital input
- [Safety output]
Safety output:24 VDC(GEN) (P.D.),^{*2} 0.7 A/Point
- Digital output,Source output
- [Test output]
Test output:24 VDC (GEN) (P.D.),^{*2}0.7 A/Point
- Digital output,Source output

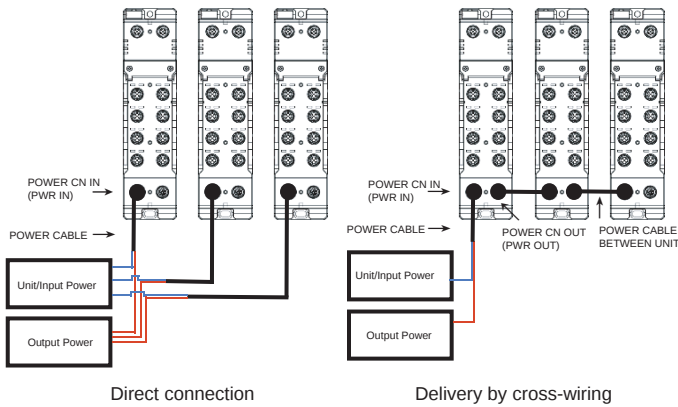
Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for EtherNet/IP
NXR-SXD1204-EIT

- [Unit/Input Power Supply]
24 VDC (-20% to +20%), MAX. 9.0 A, SELV
(with internal consumption current of 0.22 A)
- [Output Power Supply]
24 VDC (-20% to +20%), MAX. 9.0 A,^{*1} SELV
(with internal consumption current of 0.04 A)
- [Safety input]
Safety input:24 VDC,4.5 mA/Point,SELV and LIM
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Test output:24 VDC (GEN) (P.D.),^{*2}0.7 A/Point
- Digital output,Source output

^{*1}. Total current of Unit/Input Power Supply and Output Power Supply must be MAX. 9.0 A.
^{*2}. Definition of abbreviations
GEN. = General
P.D. = Pilot Duty

●External Power Supplies and Current Restriction

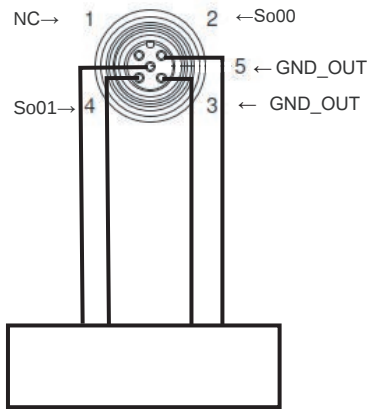
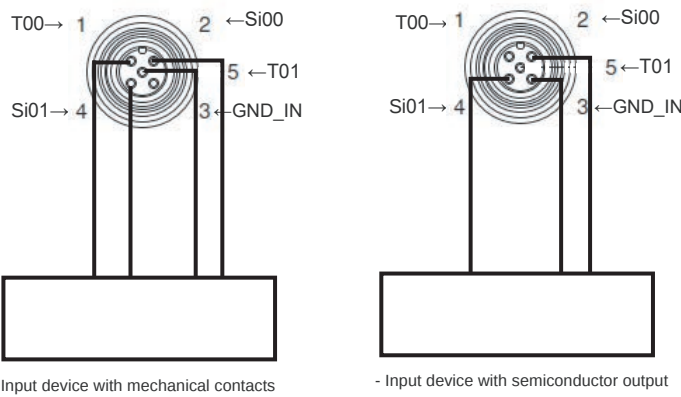
There are two ways to supply power to NXR-SXD.
Direct connection
Delivery by cross-wiring



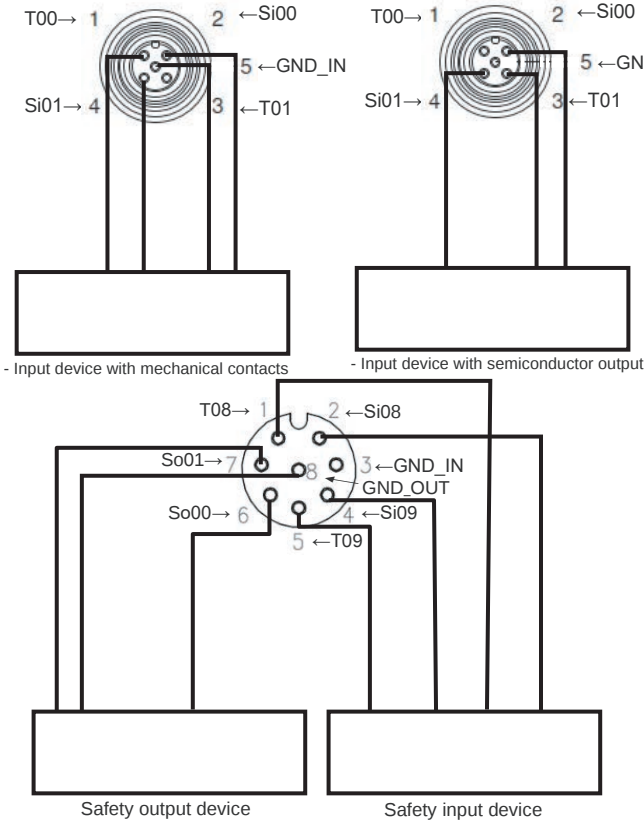
Calculation of power supply
The total current consumption of the unit/input power supply and the output power supply is within the range of the maximum current of the power supply of NXR-SXD (within 9A)
■ Direct connection
Total supply current of unit/input power supply
= current consumption of the unit/input power supply + current consumption of the connected safe input device + current consumption of the test output
Total current consumption of output power supply
= current consumption of output power supply + current consumption of connected safety output device
■ Delivery by cross-wiring
Total supply current of unit/input power supply
= sum of the total current consumption of the unit/input power supply of each unit
Total current consumption of output power supply
= sum of the total current consumption of the unit/output power supply of each unit

●Wiring diagram for I/O

Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for CIP Safety/EtherNet/IP
NXR-SXD1204-CST/NXR-SXD1204-EIT



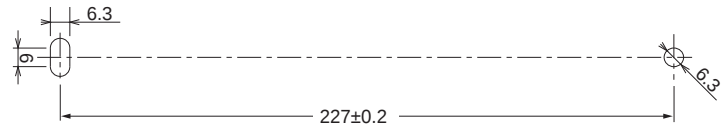
Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for CIP Safety
NXR-SXD1204B-CST



●Installation method

- Attach slave devices with M5 screws.
Tightening torque of the screws is 13.01 to 17.34 Lb-In (1.47 to 1.96 N · m).
- The mounting dimensions are shown below.

Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for CIP Safety/EtherNet/IP
NXR-SXD1204-CST/NXR-SXD1204B-CST/NXR-SXD1204-EIT



●Tool for M12 Threaded Connectors

Use the following tools to attach the connectors.

Item	Model	Manufacture
M12 torque handle Product, setting aid for torque	Screwty-M12-DM	Weidmuller

●Accessories

The following table shows cables that you use.

Power Supply Cable with cULus Listed and both UL Listed and CSA certified must be used.

Item	Model	Wire size	Manufacture
Communication Cable	XS5W-T421-□M2-SS	AWG22 (0.34mm ²)	OMRON Corporation
	XS5W-T421-□MC-SS	AWG22 (0.34mm ²)	
	XS2W-T421-□M2-SS	AWG22 (0.34mm ²)	
I/O Cable	XS2W-T421-□MC-SS	AWG22 (0.34mm ²)	
	XS5W-D521-□G1-F	AWG22 (0.34mm ²)	OMRON Corporation
	XS5W-D821-□K1-F	AWG24 (0.22mm ²)	
	XS5H-D521-□G0-F	AWG22 (0.34mm ²)	
	XS5H-D821-□K0-F	AWG24 (0.22mm ²)	OMRON Corporation
Power Supply Cable	Commercially available M12 L-coded power cable	AWG17 (1.27mm ²) or larger	-



WARNING:
Use copper conductors only.
Utilisez uniquement des conducteurs en cuivre.



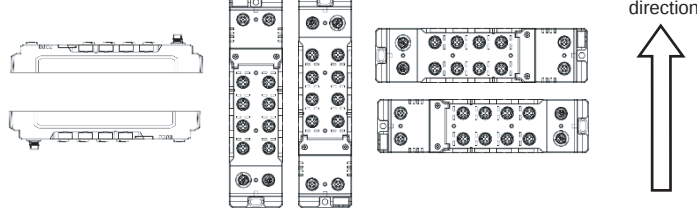
WARNING:
Cables temperature: 95 °C

Avertissement:
Température du câbles : 95 °C

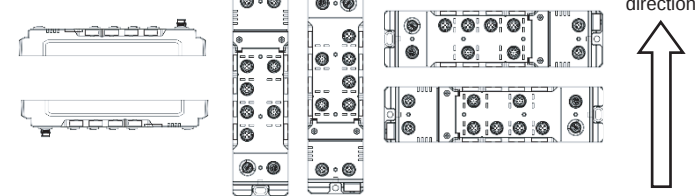
●Direction for installation

Mounting is possible in any of the following 6 orientations.

Environment-resistive Remote Terminal NXR-series Simple
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NXR-SXD1204-CST/NXR-SXD1204-EIT



Environment-resistive Remote Terminal NXR-series Simple
Logic Safety I/O Block for CIP Safety/EtherNet/IP
NXR-SXD1204B-CST



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.

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.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Conformance to KC Standards

Observe the following precaution if you use NXR-SXD□□□□-□□□□ in Korea.

- 사용자 안내문
이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

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Note: Specifications subject to change without notice.

	
Model NXR-SXD1204□-□□□ Simple Logic Safety I/O Block	
EN	Instruction Sheet
Thank you for purchasing NXR-SXD1204□-□□□, Simple Logic Safety I/O Block. To ensure safe operation, please be sure to read this document along with the manuals. Please be sure you are using the most recent versions of the user manuals. Contact your nearest OMRON representative to obtain manuals. Keep this document and all user manuals in a safe location and be sure that they are readily available to the final user of the products.	
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Instructions in the EU languages and a signed EU Declaration of Conformity are available on our website at www.industrial.omron.eu/safety/.

EU Declaration of Conformity
OMRON declares that NXR-SXD1204□-□□□ conform with the requirements of the following EU Directives: EMC Directive: 2014/30/EU Machinery Directive: 2006/42/EC RoHS Directive:2011/65/EU

Standards
NXR-SXD1204□-□□□ is designed and manufactured in accordance with the following standards: - EN ISO 13849-1: PLc/Safety category 4 - IEC/EN 61508-1 through -3 - EN 61131-2

Safety Precautions

■ Meanings of Signal Words

	WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Additionally, there may be severe property damage.
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	Caution	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.
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■ Warning Symbols

	WARNING
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Do not touch the terminals while power is being supplied. Doing so may result in electric shock.



Do not attempt to disassemble the Unit.

Some parts have a high voltage, particularly while the power is ON or immediately after the power is turned OFF, and they can be a cause of electric shock. Also, the sharp internal components may cause an injury



Provide external safety measures to ensure safety in the system if an abnormality occurs due to malfunction of the CPU Unit, other Units, or slaves or due to other external factors affecting operation. Do not do so may result in serious accidents.



Emergency stop circuits, interlock circuits, limit circuits, and similar safety measures must be provided in external devices.



outputs may remain ON or OFF due to deposits on or burning of the output relays, or destruction of the outputtransistors. As a countermeasure for such problems, external safety measures must be provided to ensure safety operation of the system.



The CPU Unit will turn OFF all outputs from basic Output Units in the following cases. The remote I/O slaves will operate according to the settings in the slaves.

- When an error occurs in the power supply system
- When the power supply system is connected incorrectly
- When a CPU error (WDT error) occurs, or when the CPU is reset



- When a major fault level Controller error occurs
- While the Unit is starting up into the RUN mode after the power is turned ON.

External safety measures must be provided to ensure safety operation of the system in the above cases.



You must take fail-safe measures to ensure safety in the event of incorrect, missing, or abnormal signals caused by broken signal lines, momentary power interruptions, or other causes. Not doing so may result in serious accidents due to incorrect operation.



Do not apply a voltage/current outside the specified range to the Unit or slave. It may cause a malfunction or fire



As shown in the manuals, ensure proper design and wiring of the power supply system. Applying a voltage/current outside the specified range, or performing incorrect wiring can result in failure or fire



Before installing the Safety I/O Terminal to equipment or devices and connecting it to the network, execute a memory all clear to delete any previous setting data stored in the Safety I/O Terminal itself. Death due to injury may possibly occur.



Before connecting the Safety I/O Terminal to the network, configure the appropriate IP address and communication speed. Death due to injury may possibly occur.



Confirm that the calculated reaction time for all safety chains meets the required specifications. Safety functions may be compromised, and death due to injury may possibly occur.



When setting the open type to "Open only", use it only after confirming that the originator and target are correctly configured. Safety functions may be compromised, and death due to injury may possibly occur.



When debugging the Safety I/O Terminal, verify that the Unit and externally connected devices operate correctly according to the behavior programmed in the originator device. Safety functions may be compromised, and death due to injury may possibly occur.



Before operating the system, perform a user test to verify that the configuration data and operation of all devices are correct. Death due to injury may possibly occur.



LEDs are NOT reliable indicators and cannot be guaranteed to provide accurate information. They should ONLY be used for general diagnostics during commissioning or troubleshooting. Do not attempt to use LEDs as operational indicators. Death due to injury may possibly occur



When building the system, observe the warnings listed in the reference manual, including "Conducting a risk assessment," "Implementing safety measures," "Roles of safety devices," "Installing safety devices," "Complying with laws and regulations," "Following usage precautions," and "Transferring or assigning equipment and facilities," to ensure that the safety-related components function properly. Failure to do so may compromise safety functions and result in death or serious injury.

- Conducting a Risk Assessment

To select the most appropriate safety devices for your equipment or facilities, conduct a thorough risk assessment during the design and development phase to identify potential hazards in your equipment or facilities.

Example of relevant international standards:

- ISO 12100: "General principles for design — Risk assessment and risk reduction"

- Safety Measures

When using safety devices to build safety-related parts of your equipment or facilities, design them to comply with a series of international standards and/or relevant industry standards, such as those listed below, after fully understanding their requirements.

Examples of relevant international standards:

- ISO 12100: "General principles for design — Risk assessment and risk reduction"
- IEC 60204-1: "Safety of machinery — Electrical equipment of machines — Part 1: General requirements"
- ISO 13849-1: -2: "Safety of machinery — Safety-related parts of control systems"
- ISO 14119: "Safety of machinery — Interlocking devices associated with guards — Principles for design and selection"
- IEC/TS 62046: "Safety of machinery — Application of protective equipment to detect the presence of persons"
- IEC 62061: "Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems"
- IEC 61508: "Functional safety of electrical/electronic/programmable electronic safety-related systems"

- Roles of Safety Devices

Although safety devices comply with relevant laws and standards, their functions and mechanisms are designed to be exercised within the safety-related system. Therefore, build the system so that the full functionality of the safety devices can be utilized.

Examples of relevant international standards:

- ISO 14119: "Safety of machinery — Interlocking devices associated with guards — Principles for design and selection"
- ISO 13857: "Safety of machinery — Safety distances to prevent upper and lower limbs from reaching hazard zones"

- Installing Safety Devices

System construction and installation of safety-related parts shall be carried out by technicians who have received appropriate education and training. Before use, verify through trial operation that the system has been installed as intended.

Examples of relevant international standards:

- ISO 12100: "General principles for design — Risk assessment and risk reduction"
- IEC 60204-1: "Safety of machinery — Electrical equipment of machines — Part 1: General requirements"
- ISO 13849-1: -2: "Safety of machinery — Safety-related parts of control systems"
- ISO 14119: "Safety of machinery — Interlocking devices associated with guards — Principles for design and selection"
- IEC 62061: "Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems"
- IEC 61508: "Functional safety of electrical/electronic/programmable electronic safety-related systems"

- Complying with Laws and Regulations

Although safety devices comply with relevant laws and standards, when using them, comply with all applicable laws and standards of each country that apply to your equipment or facilities.

- Following Usage Precautions

For specific instructions on how to use properly selected safety devices, follow the "Specifications" and "Precautions" described in the "Instruction Manual" and "User's Manual." Using the devices in any way not described in these documents will prevent the safety-related parts from performing their intended functions and may cause unexpected failure of your equipment or facilities, as well as accidents resulting from such failure.

- Transferring or Assigning Equipment and Facilities

When transferring or assigning your equipment or facilities, always retain and include the safety device instruction manuals to ensure that the transferee or assignee has no trouble in handling or maintaining the equipment.

Examples of relevant international standards:

- ISO 12100: "General principles for design — Risk assessment and risk reduction"
- IEC 60204-1: "Safety of machinery — Electrical equipment of machines — Part 1: General requirements"
- ISO 13849-1: -2: "Safety of machinery — Safety-related parts of control systems"
- IEC 62061: "Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems"
- IEC 61508: "Functional safety of electrical/electronic/programmable electronic safety-related systems"

When using the unit's safety application functions, verify that the rotary switch settings are correct, and always perform an operation check on the actual unit before operating the equipment. Safety functions may be compromised, and death due to injury may possibly occur.

When transferring unit configuration information, various data such as parameters, or setting values from tools such as Sysmac Studio, verify the safety of the transfer destination before performing the transfer. Regardless of the controller's operating mode, unexpected operation of equipment or machinery may occur.

To prevent unintentional changes to the configuration, perform a configuration lock after validation is complete.

When building a safety chain with single-channel output, you can only build up to Safety Category 2, PLc. When using single-channel inputs and outputs, certain requirements regarding system aspects such as safety category, PL limitations, and error detection apply. Build the system in accordance with these requirements and limitations.

Before performing any of the following functions, always verify the safety of the area around the system:

- Changing the operating mode of the Unit
- Setting or resetting safety I/O contacts
- Forced value refreshing of safety I/O contacts
- Changing the present value of safety I/O data

Outputs may operate, death due to serious injury may possibly occur.

When restoring the Unit, verify that the safety signature of the restored program is correct.

Safety functions may be compromised, and death due to serious injury may possibly occur.

After validation is complete, perform a configuration lock. If you change the safety application rotary switch while the configuration lock is released and then restart the power supply, the unit will start up with a different safety configuration. Safety functions may be compromised, and death due to serious injury may possibly occur.

Death due to injury may possibly occur.

Conduct a risk assessment for the entire equipment. Based on the risk assessment, confirm that the automatic transition to the operating state after power-on does not create a hazardous situation.

When the power-on mode is set to Executing, the product will automatically enter the operating state (Executing) after power is turned ON or after configuration via Type1 Safety Open is completed. The conditions for the power-on mode to be Executing are as follows:

- When using a fixed application
- When designing logic for an add-on application or user-defined application, and the power-on mode is set to Executing

Death due to injury may possibly occur.
Design, test, and verify user-defined applications and add-on applications based on the SIL (Safety Integrity Level) requirements of your equipment. Use Sysmac Studio to design these applications. For how to use Sysmac Studio, refer to this manual and the Sysmac Studio Version 1 Operation Manual.

Death due to injury may possibly occur.

Ensure that the product operates continuously for at least 8 hours. Some hardware self-diagnostics for this product take up to 8 hours. If continuous operation is less than 8 hours, diagnostics for certain functions or areas will not be executed, and failures occurring in those areas may not be detected.

When mixing safety devices with different SIL levels within a safety network, thoroughly consider the effects and confirm that the required safety level for the entire system can be ensured.

Death due to injury may possibly occur.

For each safety network or safety subnetwork, always set the SNN (Safety Network Number) so that it is unique across the entire system.

Safety functions may be compromised, and death due to injury may possibly occur.

Based on the information displayed on the Web UI, confirm that the configuration data for the Safety I/O Terminal has been downloaded correctly.

Death due to injury may possibly occur.

When configuring via Type 1 Safety Open, always verify as part of the final validation process that the ownership (CFUNDI) assignment is correctly set.

Death due to injury may possibly occur.

Always download the connection data set in the originator and/or the target's configuration data to the target, and perform testing and validation. Only after testing and validation are complete, verify the SCID on the target.

Death due to injury may possibly occur.

Always compare the SCID and configuration data transferred to the Safety I/O Terminal with the SCID and configuration data displayed and confirmed on the configuration tool at the time of setting.

Death due to injury may possibly occur.

When replacing a Safety I/O Terminal, always verify that the replacement device is correctly configured, and after replacement, always have the user personally verify the operation of the device.

Death due to injury may possibly occur.

Before locking the Safety I/O Terminal, always thoroughly test the operation of the device.

Death due to injury may possibly occur.

Do not ground the +24V side under any circumstances. Ground fault of the safety output may compromise safety functions.

Death due to injury may possibly occur.

Do not use non-safety signals, including tag data links, explicit messages, and ex- posed variables, as safety signals.

Safety functions may be compromised, and death due to injury may possibly occur.

Do not use the unit's test output as a safety output.

Safety functions may be compromised, and death due to injury may possibly occur.

When using an intranet environment via a global address, connecting to unauthorized terminals or servers such as SCADA or HMI may cause network security issues including spoofing and tampering. Customers must take adequate measures such as restricting access to terminals, using terminals equipped with secure functions, and locking installation areas.

For devices and components related to safety functions connected to the Unit, use products that comply with appropriate standards according to the required safety level and safety category.

Safety functions may be compromised, and death due to serious injury may possibly occur.

Before operating the system, perform a user test to verify that all safety devices operate correctly.

Completion of the user test validates the safety signature.

Safety functions may be compromised, and death due to serious injury may possibly occur.

When replacing the Unit, verify that the Unit model, the mounting positions of the Unit and connectors, and the Unit configuration and its operation are correct.

The crossover output cutoff function is a non-safety function. Do not use it as a safety output. Safety functions may be compromised, and death due to injury may possibly occur.

	Caution
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When acquiring the IP address from the DHCP server, make the settings of the DHCP server as described below.

Otherwise, controlled devices may perform unexpected operations.

- IP address assignment method: Static assignment
- Lease period: Unlimited

Do not touch the equipment while power is being supplied or immediately after the power is turned off. Doing so may cause burns.

Precautions for Safe Use

- When transporting this Unit, use special packing boxes and protect it from being exposed to excessive vibration or impact during transportation.
- Do not drop any Unit or subject any Unit to excessive shock or vibration. Otherwise, Unit failure or malfunction may occur.
- Touch a grounded piece of metal to discharge static electricity from your body before touching the Unit.
- Make sure that the mounting screws of the product and the switch cover screws are tightened to the torque specified in the relevant manuals.
- Make sure that the terminal blocks, communications cables, and other items with locking devices are properly locked into place. Improper locking may result in malfunction.
- Use the cables, connectors, and waterproof covers specified in this manual.
- Make sure that the screws on the cables and waterproof covers are tightened to the torque specified in this manual.
- Check all switch settings and wiring to be sure they are correct before turning ON the Unit.
- Use correct wiring components and wiring tools to wire the Unit.
- Do not bend or pull on cables with excessive force.
- Do not place heavy objects or step on the cable.
- Always separate cables by at least 5 mm to prevent unstable operation due to interference. Do not bundle cables.
- Observe the following precautions when wiring the communications cable:
 - Isolate the communications cable from power lines and high-voltage lines.
 - Always lay the communications cable inside ducts.
 - Use the recommended cable specified in this manual for the communications cable.
 - Connect both ends of the communications cable shield wire to the connector hood.
- Always use the power supply voltage specified in the manuals
 - The maximum power supply current is 9 A total for the Unitinput power supply and output power supply.
 - Do not exceed the maximum power supply current. Exceeding the maximum power supply current may cause excessive current to flow through the power cable, resulting in a risk of fire.
- Inrush current may flow through the Unit/input power supply and output power supply in the following situations:
 - When power is turned ON
 - When power supply to externally connected devices starts
 - When externally connected devices are turned ON/OFF
- In addition, overcurrent may flow until protection is activated if an I/O cable is shorted. Take these currents into consideration and select a power supply with sufficient capacity margin. Inrush current may cause the power supply to fail to start up or to shut down.
- Use EtherNet/IP within the specified range of communication distance, number of connected devices, and connection method.
- Immediately after power is turned ON, EtherNet/IP communication may not yet be established. Program the system to verify that communication has been established using the CPU Unit's system-defined variables or status before using it for control.
- After creating the user program and various data and settings, thoroughly verify their operation before proceeding to actual operation.
- In locations where power supply conditions are poor, ensure that a power supply with the rated voltage and frequency can be provided before use.
- Turn OFF the unit's external power supply and the power supply of the communicating partner device before wiring the communication cable.
- Turn OFF the unit's external power supply when performing the following operations:
 - Assembling equipment including connected devices
 - Setting rotary switches
 - Connecting or wiring cables
 - Attaching or removing terminal blocks or connectors
- Before performing the following operations, verify that they will not affect the equipment:
 - Changing the CPU Unit's operating mode (including the operating mode setting at power-on)
 - Changing the user program or settings
 - Changing set values or present values
 - Forced value refreshing
- Even when operation is stopped (in "PROGRAM" mode), the CPU Unit continues to perform I/O refresh. Therefore, before changing data in the output relay area assigned to this product or data in the relay areas assigned to High-function I/O Units/CPU High-function Units by any of the following operations, confirm that it is safe to do so. Failure to do so may cause unexpected operation of loads connected to this product or to High-function I/O Units/CPU High-function Units.
 - Transferring I/O memory data to the CPU Unit using a peripheral tool (PC tool)
 - Changing present values using a peripheral tool
 - Performing force set/reset using a peripheral tool
 - Transferring I/O memory files to the CPU Unit from a memory card or EM file memory
 - Transferring I/O memory data from another PLC on the network or from a host computer
- Do not use thinner when cleaning. Use commercially available alcohol
- Do not do high-pressure washing.
- Disposal of this Unit may be regulated by the regional authorities. Follow the local regulations when disposing of the Unit.
- To prevent information leakage, erase all user data before disposing of the product.

Reference Manuals		
Document Title	Cat. No	
Environment-resistive Remote Terminal NXR-S-series Simple Logic Safety I/O Block for CIP Safety User's Manual	W645-E1	
Environment-resistive Remote Terminal NXR-S-series Simple Logic Safety I/O Block for EtherNet/IP User's Manual	W646-E1	

SUITABILITY FOR 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.

omron

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Note: Specifications subject to change without notice.