OMRON

CSM_NXR-ILM08C-EIT_DS_E_2_6

Environment-resistive Remote Terminal NXR-series IO-Link Master Unit for EtherNet/IP[™]



Streamline commissioning and maintenance of production equipment. Simple, easy, and quick - Reduce Availability Loss and Quality Loss!



Features

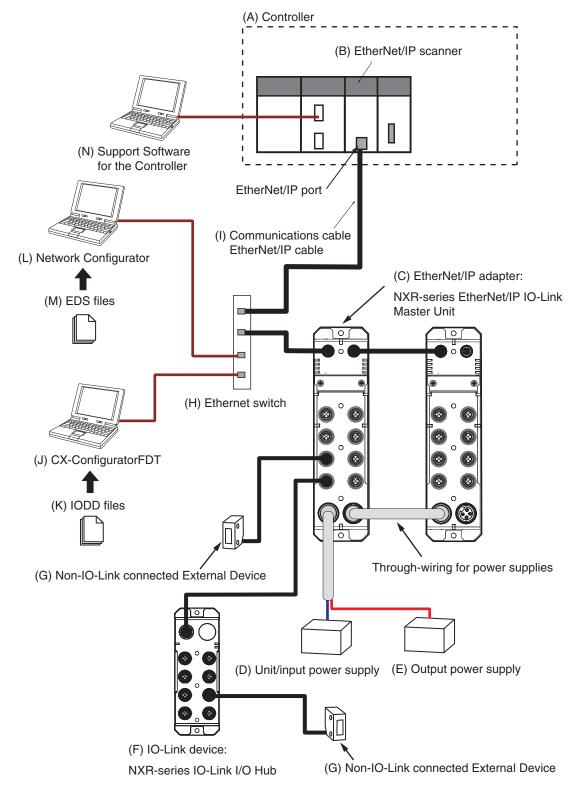
- IP67 protection
- Replacement without software
- Ethernet cable diagnostics
 Reports approximate location
- Reports approximate locations of disconnections or short circuits in Ethernet cables

 Communication quality of EtherNet/IP
- Records the total number of received FCS errors which allows checking communication quality

 Communication quality of IO-Link
- Records the total number of lost frames which allows checking communication quality • Location of short circuits
- Detects and protects from short circuits in connection to IO-Link devices or standard devices • Power supply voltage monitoring
- Monitors power supply voltage for the unit and inputs and power supply voltage for outputs
- Power OUT connector for through-wiring for power supply
- Built-in L2 switching hub for through-wiring for Ethernet

NXR-ILM08C-EIT System Configuration

System Configuration



The components are described in the table below.

Letter	Name	Function
(A)	Controller	This is an OMRON CPU Unit or a controller from another company, connected to the IO-Link Master Unit through an EtherNet/IP adapter.
(B)	EtherNet/IP scanner	The EtherNet/IP scanner monitors the status of the connections with EtherNet/IP adapters and exchanges I/O data with EtherNet/IP adapters through the EtherNet/IP network. It refers to the <i>originator</i> when opening a connection.
(C)	EtherNet/IP adapter: NXR-series IO-Link Master Unit for EtherNet/IP	The NXR-series IO-Link Master Unit for EtherNet/IP is an EtherNet/IP adapter that provides IO- Link master functions. You can connect IO-Link devices and non-IO-Link connected external devices to the NXR-series IO-Link Master Unit for EtherNet/IP. It exchanges data with IO-Link devices through IO-Link communications.
(D)	Unit/input power supply	The Unit/input power supply provides power to the IO-Link Master Unit for operation and interface with input devices. Connect an external power supply to the power supply connector (input).
(E)	Output power supply	The output power supply provides power for interface with output devices. Connect an external power supply to the power supply connector (input).
(F)	IO-Link device: NXR-series IO-Link I/O Hub	The IO-Link device is a sensor, actuator, or other device that performs IO-Link communications with the IO-Link master. It exchanges data with the NXR-series IO-Link Master Unit for EtherNet/IP in IO-Link communications. You can connect non-IO-Link connected external devices to the NXR-series IO Link I/O Hub.
(G)	Non-IO-Link connected External Device	The non-IO-Link connected external device is a sensor, actuator, or other device that handles ON/OFF signals that are not supported by IO-Link.
(H)	Ethernet switch	This is a relay device that connects multiple nodes.
(I)	Communications cable EtherNet/IP cable	Use a double-shielded cable with aluminum tape and braiding of category 5 (100BASE-TX) or higher, and use straight wiring.
(J)	CX-ConfiguratorFDT	The CX-ConfiguratorFDT is the Support Software to configure and monitor IO-Link devices that are connected to the IO-Link Master Unit.
(K)	IODD files	These files contain IO-Link device definitions.
(L)	Network Configurator	The Network Configurator is the Support Software to configure an EtherNet/IP network. For the IO-Link Master Unit, it is used for the following purposes. Setting the device parameters of the IO-Link Master Unit Setting the connection between the EtherNet/IP scanner and the IO-Link Master Unit
(M)	EDS files	The EDS files contain information that is unique to the IO-Link Master Unit. You can load EDS files into the Network Configurator or other Support Software for EtherNet/IP network setup to easily allocate data and view or change settings.
(N)	Support Software for the Controller	The Support Software is used to configure the Controller and EtherNet/IP scanner, create user programs, and perform monitoring, and troubleshooting. The Support Software depends on the Controller that you use.

Applicable Support Software

The following table shows support software that can be used in the system configured with the NXR-series EtherNet/IP IO-Link Master Unit. For versions of support software, refer to Version Information on page 11.

IO-Link M	aster Unit connected to	Purposes and support software					
Controller EtherNet/IP Scanner		Creating user programs	Setting connections	Setting device parameters of IO-Link Master Unit	Setting and monitoring connected IO-Link devices		
NJ/NX-series CPU Unit	Built-in EtherNet/IP port on an NJ/NX-series CPU Unit or CJ1W-EIP21	Sysmac Studio	Sysmac Studio or Network Configurator				
CJ/CP/CS-series CPU Unit	 EtherNet/IP unit CJ1W-EIP21 or CS1W-EIP21 CJ-series CPU unit Built-in EtherNet/IP port 	CX-Programmer	Network Configurator	Network Configurator	CX-ConfiguratorFDT		
Controller from another manufacturer	EtherNet/IP Scanner from another manufacturer	Software from another manufacturer	Software from another manufacturer				

Ordering Information

Applicable standards

Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

NXR-series IO-Link Master Unit for EtherNet/IP™

Product name	Number of IO-Link ports	Degree of protection	I/O connection terminals	Model
IO-Link Master Unit for EtherNet/IP	8	IP67	M12 connector A-cording, female	NXR-ILM08C-EIT

NXR-series IO-Link I/O Hub

Product name	Number of IO-Link ports	Input/Output	Degree of protection	I/O connection terminals	Model
IO-Link I/O Hub	0	16 digital inputs	IP67	M12 connector	NXR-ID166C-IL2
	8	16 digital inputs/outputs	1607	A-cording, female	NXR-CD166C-IL2

Software

How to Select Required Support Software for Your Controller

The required Support Software depends on the Controller to connect. Please check the following table when purchasing the Support Software.

Item	Omron PLC System	Omron Machine Automation Controller System
Controller	CJ-series	NJ/NX-series
Software	FA Integrated Tool Package CX-One	Automation Software Sysmac Studio

FA Integrated Tool Package CX-One

	Specifications			
Product name		Number of licenses	Media	Model
FA Integrated Tool Package CX-One Ver.4.⊡	The CX-One is a comprehensive software package that integrates Support Software for OMRON PLCs and components. CX-One Version 4.□ includes CX-Programmer Ver.9.□	1 license *1	DVD	CXONE-AL01D-V4

Note: For details, refer to the CX-One Catalog (Cat. No. R134), visit your local OMRON website.

*1. Multi licenses (3, 10, 30, or 50 licenses) and DVD media without licenses are also available for the CX-One.

Automation Software Sysmac Studio

Please purchase a DVD and required number of licenses the first time you purchase the Sysmac Studio. DVDs and licenses are available individually. Each model of licenses does not include any DVD.

	Specifications			
Product name		Number of licenses	Media	Model
Sysmac Studio Standard Edition Ver.1.□□	The Sysmac Studio is the software that provides an integrated environment for setting, programming, debugging and maintenance of	-	Sysmac Studio (32 bit) DVD	SYSMAC-SE200D
	machine automation controllers including NJ/NX-series CPU Units, NY- series Industrial PC, EtherCAT Slaves, and HMI. The Sysmac Studio Standard Edition DVD includes Support Software to	(Media only)	Sysmac Studio (64 bit) DVD	SYSMAC-SE200D-64
	set up EtherNet/IP Units, DeviceNet slaves, Serial Communications Units, and Support Software for creating screens on HMIs (CX-Designer).	1 license *1	_	SYSMAC-SE201L

Note: For details, refer to the Sysmac Studio Ver.1. D datasheet, visit your local OMRON website.

*1. Multi licenses are available for the Sysmac Studio (3, 10, 30, or 50 licenses).

EtherNet/IP Communications Cables

Ethernet communications cables to connect the IO-Link master unit.

Connection Cables between IO-Link Master Unit and EtherNet/IP Scanner with RJ45 Connectors

Name and appearance	Specification	No. of cable conductors	Connector	Cable connection direction	Cable length	Model
Industrial Ethernet Connectors					0.5 m	XS2W-T421-BMC-SS
with Cable		4		Straight/ straight	1 m	XS2W-T421-CMC-SS
and the	M12 plug				2 m	XS2W-T421-DMC-SS
	(D-coding, male) to RJ45				3 m	XS2W-T421-EMC-SS
					5 m	XS2W-T421-GMC-SS
					10 m	XS2W-T421-JMC-SS

Connection Cables between IO-Link Master Units

Name and appearance	Specification	No. of cable conductors	Connector	Cable connection direction	Cable length	Model
Industrial Ethernet Connectors					0.5 m	XS2W-T421-BM2-SS
with Cable	M12 plug (D-coding, male) to M12 plug (D-coding, male)	4	Screw connector		1 m	XS2W-T421-CM2-SS
all				Straight/	2 m	XS2W-T421-DM2-SS
				straight	3 m	XS2W-T421-EM2-SS
					5 m	XS2W-T421-GM2-SS
					10 m	XS2W-T421-JM2-SS

Power Supply Cables

Power supply cables to connect the IO-Link master unit

Name and appearance	Specification	No. of cable conductors	Connector	Cable connection direction	Cable length	Model	
Connector with Cable (Socket on One End, Straight)					1 m	21349700495010	
				Straight	2 m	21349700495020	
				Straight	5 m	21349700495050	
	7/8 inch socket	4	Screw		10 m	21349700495100	
Connector with Cable (Socket on One End, Right-	(female) to discrete wire	4	connector		1 m	21349900495010	
angle)				Right-angle		2 m	21349900495020
					5 m	21349900495050	
					10 m	21349900495100	
Connectors with Cable (Socket on One End, Plug on					1 m	21349697495010	
Other End, Straight)				Oteriald	2 m	21349697495020	
				Straight	5 m	21349697495050	
	7/8 inch socket (female) to		Screw		10 m	21349697495100	
Connectors with Cable (Socket on One End, Plug on	7/8 inch plug (male)	4	connector		1 m	21349899495010	
Other End, Right-angle)				Diabt an als	2 m	21349899495020	
				Right-angle	5 m	21349899495050	
					10 m	21349899495100	

*Note: These cables are region specific to the Americas region. For recommended cables outside of the Americas, please consult the OMRON Global Website

I/O Cables

Conversion Cable

The following cable converts connections from an IO-Link device or non-IO-Link connected external device with an M8 plug.

Name and appearance	Manufacturer	Specification	No. of cable conductors	Connector	Cable connection direction	Cable length	Model
XS3W Socket and Plug on Cable Ends (M8 (Socket)/M12 (Plug))	OMRON	M8 socket (A-coding, female) to M12 plug (A-coding, male), DC type	4	(M8) screw connector, (M12) Smartclick connector *1	Straight	0.2 m	XS3W-M42C-4C2-A

*1. Connectors for the IO-Link Master Unit are not Smartclick connector. Use a torque wrench for the I/O cable to tighten the connector. The Smartclick connector of the I/O cable can also be used as a screw connector.

· Direct connection or extension Cables

Extension cables, which connect an IO-Link device or standard external device with an M12 plug, can also be used to connect directly to an IO-Link device with an M12 plug.

Name and appearance	Manufacturer	Specification	No. of cable conductors	Connector	Cable connection direction	Cable length	Model
XS2W Socket and Plug on Cable Ends						1 m	XS2W-D421-C81-F
(M12 (Socket)/M12 (Plug))	M12 socket (A-coding, fema OMRON to M12 plug (A-coding, male DC type	(A-coding, female) to M12 plug	4	Screw connector	Straight/ straight	2 m	XS2W-D421-D81-F
						3 m	XS2W-D421-E81-F
						5 m	XS2W-D421-G81-F
						10 m	XS2W-D421-J81-F

Branching

Name and appearance	Manufacturer	Specification	No. of cable conductors	Connector	Cable connection direction	Cable length	Model
XS5R Y-Joint Plug/Socket Connector	OMRON	M12		Smartclick Connector *1			XS5R-D426-1

*1. Connectors for the IO-Link Master Unit are not Smartclick connector. Use a torque wrench for the I/O cable to tighten the connector.

Waterproof Cover for Connectors

A waterproof cover for unused M12 connectors. When you use this waterproof cover, you can maintain the IP67 protective structure.

Name and appearance	Manufacturer	Specification	Connector	Model
M12 Waterproof Cover	OMRON	M12	Screw connector	XS2Z-22
7/8 inch Waterproof Cover	Molex	7/8 inch	Screw connector	1302011110

General Specifications

	ltem	Specification
Degree of protection		IP67
	Ambient operating temperature	-10 to 55°C
	Ambient operating humidity	25% to 85% (with no condensation)
	Ambient operating atmosphere	Must be free from corrosive gases.
	Storage temperature	-25 to 65°C
	Storage humidity	25% to 85% (with no condensation)
	Altitude	2,000 m max.
Operating	Pollution degree	3 or less: Conforms to IEC 61010-2-201.
Operating environment	Noise immunity	2 kV on power supply line (Conforms to IEC 61000-4-4.)
	Overvoltage category	Category II: Conforms to IEC 61010-2-201.
	EMC immunity level	Zone B
	Vibration resistance	10 to 60 Hz with amplitude of 0.35 mm, 60 to 150 Hz and 50 m/s ² for 80 minutes each in X, Y, and Z directions.
	Shock resistance	150 m/s ² , 3 times each in 6 directions along X, Y, and Z axes
	Dielectric strength	600 VAC (between isolated circuits)
Insulation resistance		20 MΩ min. (between isolated circuits)
Applicable sta	ndards *1	cULus: Listed (UL61010-2-201) EU: EN 61131-2, RCM KC: KC Registration EAC IO-Link conformance EtherNet/IP conformance

*1. Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

EtherNet/IP Communications Specifications

	ltem	Specification		
Communications pro	tocols	EtherNet/IP protocol Implicit messages (Class1) Explicit messages (Class 3, UCMM) 		
Modulation		Baseband		
Link speed		10 Mbps or 100 Mbps		
Ethernet physical lay	er	100BASE-TX or 10BASE-T (100BASE-TX is recommended.) *1		
Ethernet switch		Layer-2 switch		
Transmission media		Category 5 or higher twisted-pair cable (Recommended cable: double shielded cable with aluminum tape and braiding)		
Transmission distance	;e	100 m or less (Distance between nodes and between hub and node)		
Тороlоду		Line, Star, Tree, Ring		
Number of connected Units		 Line, Star No restrictions Tree There is no restrictions in the number of cascade connections when an Ethernet switch is used. Ring Dependent on the ring supervisor specifications. 		
	Number of connections	5 *2		
EtherNet/IP tag data	Packet interval (RPI)	1 to 10,000 ms		
links	Allowed communications bandwidth per Unit	4,000 pps		
Explicit messages	Class 3 (number of connections)	5 *2 However, the maximum number of connections per originator is 2		
	UCMM (unconnected)	Supported *2		
EtherNet/IP I/O connection size		Input: 296 bytes max. (including input data, status, and unused areas) Output: 258 bytes max. (including output data and unused areas)		
	Supported services	Tag data link, CIP message communications, automatic clock adjustment (NTP/ SNTP client), BOOTP client, DHCP client		
Support functions	IP address duplication detection	Provided		
		Supported *3		
Support functions	Run/Idle header	Supported *3		
Support functions	Run/Idle header QuickConnect	Supported *3		

*1. If tag data links are used, use 100BASE-TX.

*2. The maximum number of connections is 10 when tag data links (Class 1), Class 3, and UCMM are used simultaneously.
*3. You can configure output retention, clear, and other settings during Idle. Refer to the NXR-series IO-Link Master Unit for EtherNet/IP[™] User's Manual (Cat.No.W619) for details.

Unit Specifications

IO-Link connector type Class A Communications protocol IO-Link protocol Number of ports 8 Baud rate COM1: 4.8 ktpp Topology 1:1 Compliant standards • IO-Link Interface and System Specification Version 1.1.2 *1 Cobil Sepecifications • Cobils Sep Standards Cable specifications • Cobil Y as Specification Version 1.1.2 *1 Cable specifications • Cobil Y as Specification Version 1.1.2 *1 Cable specifications • Cobils Yep P Cable specifications • Cobil Yep P Version Provided • Cobil Yep P Output power supply voltage 24 VOC (20 4 to 26 4 VOC) Output power supply current 9.A Mounting method Noresticions if power supply specifications are met. Mounting method Noresticions if power supply specifications if M2 (Decoding, female) × 2 Power supply current • EhrerNet(P communications connectors M12 (Decoding, female) × 2 Noresticions if power supply specifications • Else Net(P communications connectors M12 (Decoding, female) × 1 Mounting writin through writing method No restallation orientations Restaresupply connec	lt	em	Specification		
Number of ports 8 Baud rate COM1: 3.8 4 kpps COM2: 4.8 4 kpps COM2		IO-Link connector type	Class A		
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interface interface and System Specification Version 1.1.2 *1 interface interface and System Specification Version 1.1.2 cable specifications : Col-Link Test Specification Version 1.1.2 cable specifications : Col-Link Test Specification Version 1.1.2 untifinput power supply voltage : Loop resistance : S 0 m max. Untifinput power supply voltage : Loop resistance : S 0 m max. Variant power supply current : A VDC (20.4 to 28.4 VDC) : Nor restrictions if power supply current and output power supply current into through-wrining Mounting strength : No restrictions if power supply current installation orientation. So restrictions if power supply current installation orientations in threatilians. No restrictions Installation orientation and restrictions : EtherNet/IP communications connectors : M12 (Uncoding, female) × 2 Power supply concentors : M12 (Menale) × 1.7 B inch (female) × 1.7 B inch (female) × 1.1 S to 0.6 N m Sconnector types : EtherNet/IP communications connectors and I/O connectors (M14 Serew) Connector strength : O connectors : M12 (Menale) × 1.7 B inch (female) × 1.7 B inch (female) × 1.7 B inch (female) × 1.1 S to 1.7 N m Kater value : Waterpoof covers for EtherNet/IP communications connectors in M12 (W connectors : M12 (W co		Baud rate	COM2: 38.4 kbps		
• IO-Link Test Specification Version 1.2 • Cable specifications • IO-Link Test Specification Version 1.2 • Cable specifications • Cable specifications • Conprestations • O (20.4 to 26.4 VDC) Output power supply voltage 24 VDC (20.4 to 26.4 VDC) Maximum power supply voltage 24 VDC (20.4 to 26.4 VDC) Mounting method No restrictions if power supply specifications are met. Mounting strength No restrictions if power supply specifications Installation orientation are restrictions Restrictions: No restrictions Installation orientation are restrictions Restrictions: No restrictions Connector types 30 N Connector strength Applicable to all connectors in M12 (Acoding, female) × 1 Notary power supply voltage 30 N Screw tightening torque * ElsentNet/P communications connectors and I/O connectors in 147 to 1.96 N m * ElsentNet/P communications connectors in 1.472 (Acoding, female) × 1 Screw tightening torque * ElsentNet/P communications connector	IO-Link specifications	Topology	1:1		
Cable specifications • Cable length • Electrostatic capacity between lines: 3 nF max. • Loop resistance • S nF max. • S nF max. • Loop resistance • S nF max. • No mer supply secont current * NF nF model no nf max. • No mer supply connectors : M12 (D-coding, female) × 1 • S nF max. • S nF max		Compliant standards			
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Maximum power supply current 9.A Sum of Unit/input power supply current and output power supply current Number of connected Units when supplying power with through-wiring mounting method No restrictions if power supply specifications are met. Mounting method No restrictions if power supply specifications are met. Mounting method 100 N Installation orientation and restrictions Installation orientations connectors . M12 (D-oding, female) × 2 Connector types • EtherNet/IP communications connectors . M12 (D-oding, female) × 1 Connector strength - Site in connectors . M12 (D-oding, female) × 1 Screw tightening torque - Site in connectors . M12 (D-oding, female) × 1 Screw tightening torque - Site in connectors . M12 (D-oding, female) × 1 Maximum port current - Site in connectors . M12 (D-oding, female) × 1 No restrictions - Site in connectors . M12 (D-oding, female) × 1 Maximum port current - Site in connectors . M12 (D-oding, female) × 1 Maximum port current - Site in connectors . M12 (D-oding, female) × 1 Maximum port current - Alport In CL Lin Kinde or . Site in Classe - Site in connectors . (M12 screw) Short-circuit protection Provided *3 Power supply used <th>Unit/input power supply vo</th> <th>oltage</th> <th>24 VDC (20.4 to 26.4 VDC)</th>	Unit/input power supply vo	oltage	24 VDC (20.4 to 26.4 VDC)		
Maximum power supply current Sum of Unit/input power supply current and output power supply current. Number of connected Units when supplying power No restrictions if power supply specifications are met. Mounting strength Mounting with M5 screws Mounting strength 100 N Installation orientation rientation: 6 possible orientations Restrictions: No restrictions Mounting (H2 pormunications connectors · M12 (D-coding, female) × 2 · Power supply connectors · M12 (A-coding, female) × 1 · Power supply connectors · M12 (A-coding, female) × 8 Connector strength 30 N Applicable to all connectors Screw tightening torque · EherNeVIP communications connectors and I/O connectors · M2 screw) · : 0.5 to 0.6 N·m · Power supply connectors (7/8 inch screw) · : 0.5 to 0.6 N·m · Power supply connectors (7/8 inch screw) · : 0.4 to 0.6 N·m · Unit mounting (M5 screw) · : 0.4 to 0.6 N·m · Wateproof covers for EherNet/IP communications connectors · (M12 screw) · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · (M12 screw) · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · : 0.5 to 0.6 N·m · Wateproof covers for power supply connectors · : 0.5 to 0.6 N·m · : 0.5	Output power supply volta	ge	24 VDC (20.4 to 26.4 VDC)		
with through-wiring No restructions in power supply specifications are met. Mounting method Mounting strength Mounting with M5 screws Installation orientation and restrictions Installation orientation: 6 possible orientations Restrictions: No restrictions Connector types • EtherNeVIP communications connectors : M12 (D-coding, female) × 2 • Power supply connectors : M12 (A-coding, female) × 3 Connector strength 30 N Applicable to all connectors M12 (A-coding, female) × 3 Screw tightening torque • EtherNeVIP communications connectors and I/O connectors (M12 screw) : 0.5 to 0.6 N·m No testing torque • EtherNeVIP communications connectors and I/O connectors (M12 screw) : 0.5 to 0.6 N·m No testing torque • EtherNeVIP communications connectors (M12 screw) : 0.5 to 0.6 N·m No testing torque • Adaption to covers for EtherNeVIP communications connectors (M12 screw) : 0.5 to 0.6 N·m Maximum port current • Adaption cover for Spower supply connectors (7/8 inch screw) : 0.5 to 0.6 N·m Maximum pod current • Adaption covers for power supply (7/8 inch screw) : 0.5 to 0.6 N·m Maximum pod current • Adaption covers for power supply · 0.5 to 0.6 N·m Notincurrent • 2 A/poit · 0.5 to	Maximum power supply cu	irrent			
Mounting strength 100 N Installation orientation and restrictions Installation orientation: 6 possible orientations Restrictions: No restrictions Connector types EtherNet/IP communications connectors : M12 (D-coding, female) × 2 • Power supply connectors : : //12 inch (female) × 1, 7/8 inch (female) × 1 • I/O connectors : : //12 inch (male) × 1, 7/8 inch (female) × 1 Connector strength		s when supplying power	No restrictions if power supply specifications are met.		
Installation orientation and restrictions Installation orientation: 6 possible orientations Restrictions: No restrictions Connector types EtherNet/IP communications connectors : M12 (D-coding, female) × 2 Power supply connectors : 7/8 inch (male) × 1, 7/8 inch (female) × 1 // O connectors : M12 (A-coding, female) × 8 Connector strength 30 N Applicable to all connectors Screw tightening torque • EtherNet/IP communications connectors and I/O connectors (M12 screw) : 1.5 to 1.7 N m · 1.6 to 1.80 N m · Screw tightening torque Screw tightening torque • Power supply connectors (7/8 inch screw) : 0.5 to 0.6 N m · Vale proof covers for EherNet/IP communications connectors (M12 screw) : 0.4 to 0.8 N m · Vale proof covers for Dewer supply connectors (M12 screw) : 0.5 to 0.6 N m · Waterproof covers for Dewer supply connectors (M12 screw) : 0.5 to 0.6 N m · Waterproof covers for Dewer supply connectors (M12 screw) : 1.5 to 1.7 N m · Vale available current between pin 1 and pin 4 Device power supply *2 Power supply used Unit/input power supply Maximum load current 2 A/pin Rated voltage Short-circuit protection Provided *3 Power supply used Unit/input power supply </th <th>Mounting method</th> <th></th> <th>Mounting with M5 screws</th>	Mounting method		Mounting with M5 screws		
Restrictions: No restrictions Connector types : EtherNet/IP communications connectors : M12 (Δ-coding, female) × 2 : Power supply connectors : M12 (Δ-coding, female) × 3 : I/O connectors : M12 (Δ-coding, female) × 3 : V/O conversion : 0.0 in the set supply connectors : (M12 (Δ-coding, female) × 3 : V/O convers for EtherNet/IP communications connectors : (V13 in chorew) : : 0.4 to 0.6 N·m : : (V14 to 0.6 N·m : : : (V14 to 0.6 N·m : : : (V14 to 0.6 N·m : : : : : : : : : : : : : : : : : : :	Mounting strength		100 N		
Connector types Power supply connectors M2 (A-coding, female) × 1 M2 (A-coding, female) × 8 M2 (A-coding, female) × 10 (M12 screw) Stort.5 to 0.6 N·m Waterproof covers for EtherNet/IP communications connectors (M12 screw) Stort.6 covers for EtherNet/IP communications connectors M2 (A-coding, female) × 10 (M12 screw) Stort.6 covers for EtherNet/IP communications connectors M2 (A-coding a) M2 (A-coding	Installation orientation and restrictions				
Applicable to all connectors Applicable to all connectors Screw tightening torque • EtherNet/IP communications connectors and I/O connectors • Costs 0.6 N·m • Power supply connectors (7/8 inch screw) • 1.5 to 1.7 N·m • Unit mounting (M5 screw) • Cotary switch cover (M3 screw) • Ato 1.96 N·m • Rotary switch cover (M3 screw) • Unit mounting (M5 screw) • 1.47 to 1.96 N·m • Rotary switch cover (M3 screw) • 1.5 to 0.6 N·m • Waterproof covers for EtherNet/IP communications connectors (7/8 inch screw) • 1.5 to 0.6 N·m • Waterproof covers for power supply connectors (7/8 inch screw) • 1.5 to 1.7 N·m Maximum port current Power supply used Mater voltage 24 VDC (20.4 to 26.4 VDC) Maximum load current Short-circuit protection Provided *3 Device power supply scale SiO (DI) Mode Short-circuit detection Provided *3 Power supply used Unit/input power supply Rated voltage 24 VDC (20.4 to 26.4 VDC) Internal I/O common Provided *3 Digital inputs for pin 2: 3.0 mA (at 24 VDC) Internal I/O common Pigital inputs for pin 4: 6.3 mA (at 24 VDC) Digital inputs for pin 4: 5 VDC min., 2 mA min. Digital inputs for pin 4: 15 VDC min., 3 mA min. OI voltage/ON current Digital inputs for pin 4: 15 VDC min., 3 mA min. OI woltage/ON current Digital inputs for pin 4: 15 VDC min., 3 mA min. Digital inputs for pin 4: 15 VDC min., 3 mA min. OI woltage/OF current Digital inputs	Connector types		• Power supply connectors : 7/8 inch (male) × 1, 7/8 inch (female) × 1		
Applications Paper Supply actions Screw tightening torque EtherNet/IP communications connectors and I/O connectors (M12 screw) :0.5 to 0.6 N·m :0.4 to 0.6 N·m :0.4 to 0.6 N·m :0.5 to 0.6 N·m	Connector strength				
Maximum por current Total available current between pin 1 and pin 4 Device power supply *2 in IO-Link Mode or SIO (DI) Mode Power supply used Unit/input power supply Maximum load current 2 A/pin Short-circuit protection Provided *3 Short-circuit detection Provided *3 Power supply used Unit/input power supply Rated voltage 24 VDC (20.4 to 26.4 VDC) Internal I/O common Provided *3 Internal I/O common PNP Input current Digital inputs for pin 4 or digital inputs for pin 4 or digital inputs for pin 2 inputs for pin 3 inputs for pin 2 inputs for pin 3 inputs for pin 4 inputs for p	Screw tightening torque		EtherNet/IP communications connectors and I/O connectors (M12 screw) : 0.5 to 0.6 N⋅m Power supply connectors (7/8 inch screw) : 1.5 to 1.7 N⋅m Unit mounting (M5 screw) : 1.47 to 1.96 N⋅m Rotary switch cover (M3 screw) : 0.4 to 0.6 N⋅m Waterproof covers for EtherNet/IP communications connectors (M12 screw) : 0.5 to 0.6 N⋅m Waterproof covers for power supply connectors		
Device power supply *2 in IO-Link Mode or SIO (DI) Mode Rated voltage 24 VDC (20.4 to 26.4 VDC) Maximum load current 2 A/pin Short-circuit protection Provided *3 Short-circuit detection Provided *3 Power supply used Unit/input power supply Rated voltage 24 VDC (20.4 to 26.4 VDC) Internal I/O common PNP Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) ON voltage/ON current • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 4 or digital inputs for pin 2 0N voltage/ON current • Digital inputs for pin 4: 15 VDC min., 3 mA min. • Digital inputs for pin 4 or digital inputs for pin 2 5 VDC max., 1 mA max. 0N/OFF response time • No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Short-circuit protection Provided *3	Maximum port current				
Digital inputs for pin 4 or digital inputs for pin 2 (in SIO (DI) Mode) Maximum load current Short-circuit protection 2 A/pin Digital inputs for pin 4 or digital inputs for pin 2 (in SIO (DI) Mode) Power supply used Not current Unit/input power supply 24 VDC (20.4 to 26.4 VDC) Internal I/O common PNP Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 4: 6.3 mA (at 24 VDC) ON voltage/ON current • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 4: 15 VDC min., 3 mA min. ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3		Power supply used	Unit/input power supply		
In IO-Link Mode or SIO (DI) Mode Maximum load current 2 A/pin Short-circuit protection Provided *3 Short-circuit detection Provided *3 Bower supply used Unit/input power supply Rated voltage 24 VDC (20.4 to 26.4 VDC) Internal I/O common PNP Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) ON voltage/ON current • Digital inputs for pin 2: 15 VDC min., 2 mA min. OI/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3	Device power supply *2	Rated voltage	24 VDC (20.4 to 26.4 VDC)		
Digital inputs for pin 4 or digital inputs for pin 2 (in SIO (DI) Mode) ON voltage/ON current Pogital inputs for pin 2 (in SIO (DI) Mode) PF voltage/OFF current Digital inputs for pin 4 or digital inputs for pin 2 Short-circuit protection PNP Digital inputs for pin 4 or digital inputs for pin 2 Short-circuit protection Provided *3 Power supply used Unit/input power supply Rated voltage 24 VDC (20.4 to 26.4 VDC) Internal I/O common PNP Digital inputs for pin 2: 3.0 mA (at 24 VDC) Digital inputs for pin 4: 6.3 mA (at 24 VDC) Digital inputs for pin 4: 15 VDC min., 2 mA min. Digital inputs for pin 4: 15 VDC min., 3 mA min. Digital inputs for pin 4: 15 VDC min., 3 mA min. OFF voltage/OFF current 5 VDC max., 1 mA max. ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3 Provided *3<th>in IO-Link Mode or</th><th>Maximum load current</th><th>2 A/pin</th>	in IO-Link Mode or	Maximum load current	2 A/pin		
Power supply usedUnit/input power supplyRated voltage24 VDC (20.4 to 26.4 VDC)Internal I/O commonPNPInput current• Digital inputs for pin 2: 3.0 mA (at 24 VDC) • Digital inputs for pin 4: 6.3 mA (at 24 VDC) • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 4: 15 VDC min., 3 mA min.ON voltage/ON current• Digital inputs for pin 4: 15 VDC min., 3 mA min. • Digital inputs for pin 4: 15 VDC min., 3 mA min.OFF voltage/OFF current5 VDC max., 1 mA max. • No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 msShort-circuit protectionProvided *3	SIO (DI) Mode	Short-circuit protection	Provided *3		
Rated voltage 24 VDC (20.4 to 26.4 VDC) Internal I/O common PNP Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) ON voltage/ON current • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 2 • Digital inputs for pin 4: 15 VDC min., 3 mA min. • OFF voltage/OFF current 5 VDC max., 1 mA max. ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3		Short-circuit detection	Provided *3		
Internal I/O common PNP Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) • Digital inputs for pin 2: 0N voltage/ON current • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 4: 15 VDC min., 3 mA min. • OFF voltage/OFF current 5 VDC max., 1 mA max. • ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3		Power supply used			
Digital inputs for pin 4 or digital inputs for pin 2 Input current • Digital inputs for pin 2: 3.0 mA (at 24 VDC) ON voltage/ON current (in SIO (DI) Mode) ON voltage/ON current • Digital inputs for pin 2: 15 VDC min., 2 mA min. OFF voltage/OFF current 5 VDC max., 1 mA max. ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3					
Digital inputs for pin 4 or digital inputs for pin 2 • Digital inputs for pin 4: 6.3 mA (at 24 VDC) Digital inputs for pin 2 • Digital inputs for pin 2: 15 VDC min., 2 mA min. • Digital inputs for pin 2 • Digital inputs for pin 4: 15 VDC min., 3 mA min. • OFF voltage/OFF current 5 VDC max., 1 mA max. • ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3		Internal I/O common			
digital inputs for pin 2 (in SIO (DI) Mode) ON Voltage/ON current • Digital inputs for pin 4: 15 VDC min., 3 mA min. OFF voltage/OFF current 5 VDC max., 1 mA max. ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3		Input current	Digital inputs for pin 4: 6.3 mA (at 24 VDC)		
ON/OFF response time 1.0 ms max. Input filter time No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 ms Short-circuit protection Provided *3	digital inputs for pin 2	ON voltage/ON current			
Input filter timeNo filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, 32 ms, 64 ms, 128 ms, 256 msShort-circuit protectionProvided *3	(in SIO (DI) Mode)	OFF voltage/OFF current	5 VDC max., 1 mA max.		
Short-circuit protection Provided *3		ON/OFF response time	1.0 ms max.		
•		Input filter time			
Short-circuit detection Provided *3		Short-circuit protection	Provided *3		
		Short-circuit detection	Provided *3		

lt	em	Specification
	Power supply used	Output power supply
	Internal I/O common	PNP
	Output type	Open-drain
	Rated voltage	24 VDC (20.4 to 26.4 VDC)
Digital outputs for pin 4 or digital outputs for pin 2	Maximum load current	2 A/pin
(in SIO (DO) Mode)	Leakage current	0.1 mA max.
	Residual voltage	1.5 V max.
	ON/OFF response time	1.0 ms max.
	Short-circuit protection	Provided *4
	Short-circuit detection	Provided *4
Current consumption	Unit/input power supply	50 mA
Current consumption	Output power supply	100 mA
Weight		440 g
Dimensions		$240 \times 24.2 \times 62 \text{ mm} (W \times H \times D)$ (The height is 38 mm when the connectors are included.)
Isolation method		No isolation
Circuit layout		EtherNet/IP communications connector 1 (ETH1) EtherNet/IP communications connector 2 (ETH2)

*1. IO-Link PREOPERATE is not supported.

*2. Used as a power supply for IO-Link devices or non-IO-Link input devices. Supplies power from the Unit/input power supply of the IO-Link Master Unit to external devices through I/O connectors.

*3. Detects a short-circuit that occurred between pin 1 and pin 3 to protect the IO-Link Master Unit.

*4. Detects a short-circuit that occurred between pin 2 and pin 3 and between pin 4 and pin 3 to protect the IO-Link Master Unit.

Version Information

The following table shows the relationship between the unit versions of the IO-Link Master Unit and CPU unit, and the corresponding support software versions.

Connecting with NJ/NX CPU Unit

NX-series CPU Unit

IO-Link Master Unit		Corresponding versions				
Model	Unit version	CPU unit version Sysmac Studio		Network Configurator	CX-ConfiguratorFDT	
NXR-ILM08C-EIT	Ver.1.1	Ver.1.14	Ver.1.40	Ver.3.69	Ver.2.54	
	Ver.1.0	vei.1.14				

NJ-series CPU Unit

IO-Link Master Unit		Corresponding versions				
Model	Unit version	CPU unit version	CJ1W-EIP21	Sysmac Studio	Network Configurator	CX-ConfiguratorFDT
NXR-ILM08C-EIT	Ver.1.1	Ver.1.14	Ver.2.1	Ver.1.40	Ver.3.69	Ver.2.54
NXR-ILMU8C-EII	Ver.1.0	vei.1.14				

Connecting with CS/CJ/CP CPU Unit CS1G/CS1H/CJ1M * CPU Unit

* Final order entry date for CJ1M:The end of March, 2021

IO-Link Master Unit		Corresponding versions				
Model	Unit version	CPU unit version	CS1W-EIP21/ CJ1W-EIP21	Network Configurator	CX-ConfiguratorFDT	
NXR-ILM08C-EIT	Ver.1.1	Ver.3.0	Ver.2.1	Ver.3.69	Ver.2.54	
	Ver.1.0	ver.5.0				

CJ2H-CPU6@/CJ2M-CPU1@/CP1H CPU Unit

IO-Link Master Unit		Corresponding versions				
Model	Unit version	CPU unit version CJ1W-EIP21		Network Configurator	CX-ConfiguratorFDT	
NXR-ILM08C-EIT	Ver.1.1	Ver.3.0	Ver.2.1	Ver.3.69	Ver.2.54	
	Ver.1.0	ver.s.0				

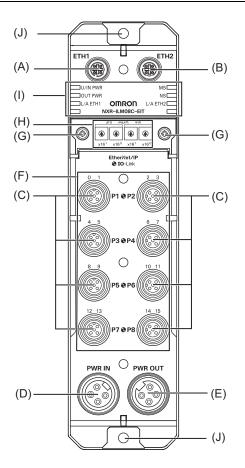
CJ2H-CPU6@-EIP CPU Unit

IO-Link Master Unit		Corresponding versions			
Model	Unit version	CPU unit version CJ1W-EIP21		Network Configurator	CX-ConfiguratorFDT
NXR-ILM08C-EIT	Ver.1.1	Ver.1.5	Ver.2.1	Ver.3.69	Ver.2.54
	Ver.1.0	ver.1.5			

CJ2M-CPU3@ CPU Unit

IO-Link Master Unit		Corresponding versions				
Model	Unit version	CPU unit version CJ1W-EIP21		Network Configurator	CX-ConfiguratorFDT	
NXR-ILM08C-EIT	Ver.1.1	Ver.1.5	Ver.2.1	Ver.3.69	Ver.2.54	
NXR-ILMU8C-EII	Ver.1.0	Vel.1.5	ver.2.1	Ver.3.09	ver.2.34	

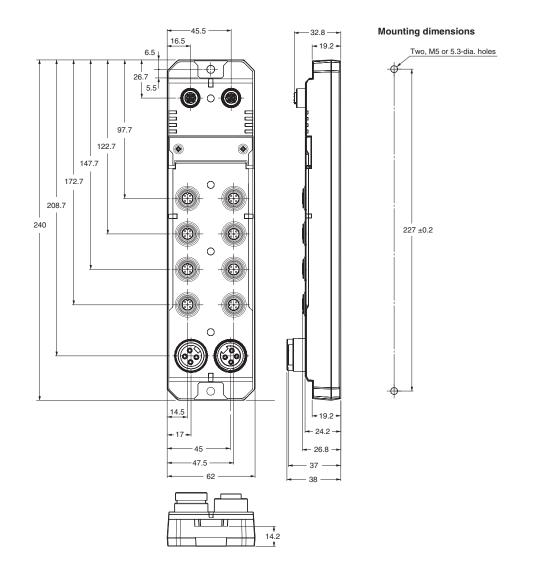
NXR-ILM08C-EIT External Interface



Letter	Name	Function
(A)	EtherNet/IP communications connector 1	The connector for EtherNet/IP port 1. M12 connector (D-coding, female) Connect a communications cable.
(B)	EtherNet/IP communications connector 2	The connector for EtherNet/IP port 2. M12 connector (D-coding, female) Connect a communications cable.
(C)	I/O connectors	The connectors for connecting IO-Link devices or non-IO-Link connected external devices. They are called "ports." • M12 connectors (A-coding, female) Connect I/O cables.
(D)	Power supply connector (input)	The connector for supplying Unit/input power and output power. 7/8 inch connector (male) Connect the power supply cable to an external power supply.
(E)	Power supply connector (output)	The connector for supplying Unit/input power and output power from the local node to another node. Use this connector when the power supply method is power supply with through-wiring. • 7/8 inch connector (female) Connect the power supply cable to an additional IO-Link Master Unit.
(F)	I/O indicators	The indicators that show the I/O status of pin 4/pin 1 and pin 2 for each port.
(G)	Cover mounting holes	The screw holes for mounting the rotary switch cover. They are provided in two locations. The above figure shows the holes when the cover is mounted with screws.
(H)	Rotary switches	The switches for setting the IP address.
(I)	Status indicators	The indicators that show the current operating status of the Unit.
(J)	Unit mounting holes	The holes for mounting the Unit. They are provided in two locations. Mount the Unit with M5 screws.

Dimensions

(Unit: mm)



Wiring Example for I/O connectors

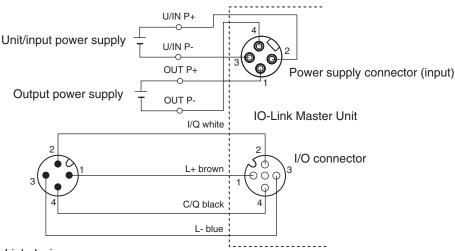
Wiring Example for IO-Link Devices

Wiring Example for IO-Link Devices (with Digital Inputs for Pin 2)

A wiring example for an IO-Link device with digital inputs for pin 2 is shown below.

In this example, the port is used in the following communications modes.

Pin 4: IO-Link Mode, pin 2: SIO (DO) Mode



IO-Link device

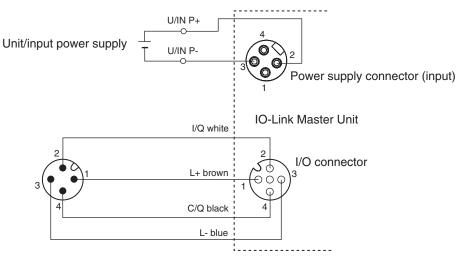
(with digital inputs for pin 2)

Wiring Example for IO-Link Devices (with Digital Outputs for Pin 2)

A wiring example for an IO-Link device with digital outputs for pin 2 is shown below.

In this example, the port is used in the following communications modes.

Pin 4: IO-Link Mode, pin 2: SIO (DI) Mode



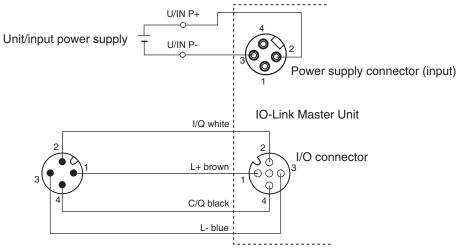
IO-Link device (with digital inputs for pin 2)

Wiring Example for IO-Link Devices (without Digital Inputs and Outputs for Pin 2)

A wiring example for an IO-Link device without digital inputs and outputs for pin 2 is shown below.

In this example, the port is used in the following communications modes.

Pin 4: IO-Link Mode, pin 2: Disabled



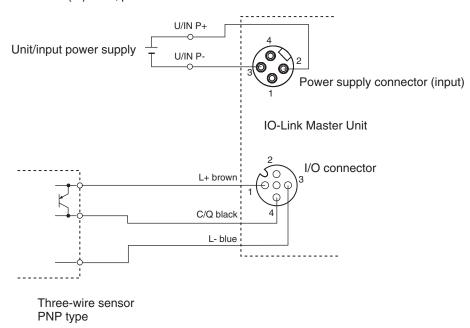


(without digital inputs or outputs for pin 2)

Wiring Example for Non-IO-Link Input Devices

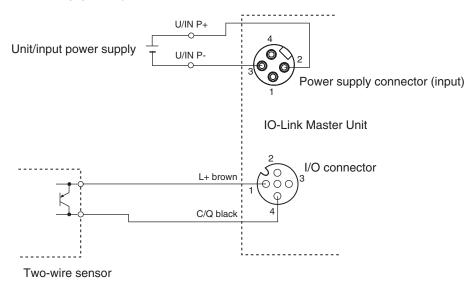
Wiring Example for Three-wire Sensors

In this example, the port is used in the following communications modes. Pin 4: SIO (DI) Mode, pin 2: Disabled



Wiring Example for Two-wire Sensors

In this example, the port is used in the following communications modes. Pin 4: SIO (DI) Mode, pin 2: Disabled

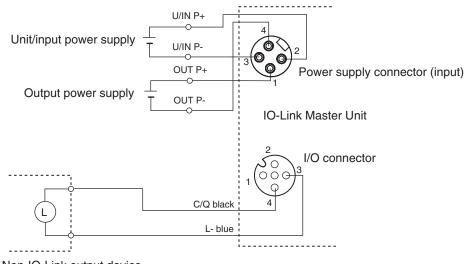


Wiring Example for Non-IO-Link Output Devices

A wiring example between the IO-Link Master Unit and a non-IO-Link output device is shown below.

In this example, the port is used in the following communications modes.



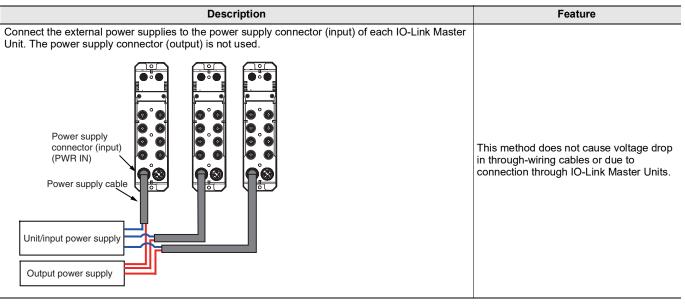


Non-IO-Link output device

Power Supply System

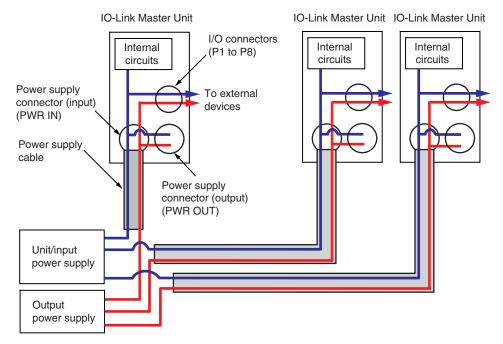
There are two methods to supply power to IO-Link Master Units as shown below.

Direct power supply



An example is shown below.

Connect the external power supplies to the power supply connector (input) of each IO-Link Master Unit.



Power supply with through wiring

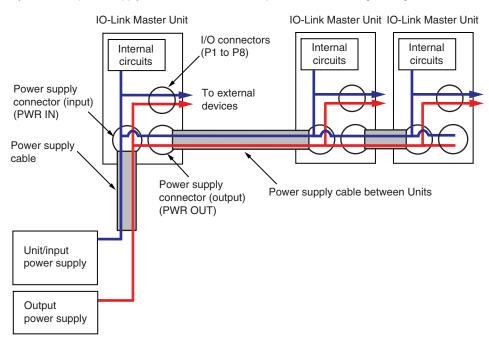
Description	Feature
Connect the external power supplies to the power supply connector (input) of one IO-Link Master Unit. Then, connect the power supply connector (output) of the Unit to the power supply connector (input) of another IO-Link Master Unit with a power supply cable. In this way, supply power with through-wiring between the subsequent Units with power supply cables. The power supply connector (output) is used.	
Power supply connector (input) (PWR IN) Power supply cable Unit/input power supply Output power supply	Through-wiring can reduce the overall length of the power supply cables used in the system.

An example is shown below.

Connect the external power supplies to the power supply connector (input) of one IO-Link Master Unit.

Then, connect the power supply connector (output) of the Unit to the power supply connector (input) of another IO-Link Master Unit with a power supply cable.

In this way, connect a power supply cable between the subsequent Units with through-wiring one after another.



Related Manuals

Manual	Cat. No	Model	Application	Description
NXR-series IO-Link Master Unit for EtherNet/IP™ User's Manual	W619	NXR-ILM08C-EIT	Learning how to use an NXR- series IO-Link Master Unit for EtherNet/IP.	Describes the hardware, setup methods, and functions of the NXR- series IO-Link Master Unit for EtherNet/IP.
NXR-series IO-Link I/O Hub User's Manual	W620	NXR-@@@@@@-IL@	Learning how to use an NXR- series IO-Link I/O Hub.	Describes the hardware, setup methods, and functions of the NXR- series IO-Link I/O Hub.
NJ/NX-series CPU Unit Built-in EtherNet/IP™ Port User's Manual	W506	NX701-@@@@ NJ501-@@@@ NJ301-@@@@ NJ101-@@@@ NX502-@@@@ NX102-@@@@ NX1P2-@@@@	Using the built-in EtherNet/IP port on an NJ/NX-series CPU Unit.	Information on the built-in EtherNet/IP port is provided. Information is provided on the basic setup, tag data links, and other features.
CS/CJ-series EtherNet/IP™ Units Operation Manual	W465	CS1W-EIP21 CJ1W-EIP21 CJ2H-CPU6@-EIP CJ2M-CPU3@	Using the CS/CJ-series EtherNet/IP Unit.	Provides information on operating and installing CS/CJ-series EtherNet/IP Units, including details on basic settings, tag data links, and FINS communications.
Sysmac Studio Version 1 Operation Manual	W504	SYSMAC-SE2@@@	Learning about the operating procedures and functions of the Sysmac Studio.	Describes the operating procedures of the Sysmac Studio.
NJ/NX-series Instructions Reference Manual	W502	NX701-@@@@ NJ501-@@@@ NJ301-@@@@ NJ101-@@@@ NX502-@@@@ NX102-@@@@ NX1P2-@@@@	Learning detailed specifications on the basic instructions of an NJ/NX-series CPU Unit.	The instructions in the instruction set (IEC 61131-3 specifications) are described.
	9541795-1	E3Z-@8@-IL@	Learning the vendor IDs, device IDs, I/O data (process data), and objects (service data).	Describes the following details for OMRON's IO-Link sensors. • IO-Link physical layer • Device IDs • Process data • Service data • Event functions
IO-Link Sensor Index List	9540292-0	E2E(Q)-@-IL@		
	9539397-1	E3S-DCP21-IL@		

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