Connector-Terminal Block Conversion Units for PLCs

XW2R

CSM_XW2R-C_M_K_DS_E_5_8

Connector-Terminal Block Conversion Units Designed Specifically to Connect PLCs

- Wiring patterns that are specifically designed for PLCs reduce the work required to check signal layout.
- Terminal block signal labels give the PLC addresses.
- Models available with Phillips screw, slotted screw, or e-CON connections.
- Models available with and without power supply terminals.
- Mounting to DIN Track is possible.

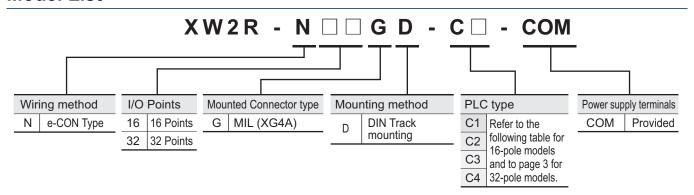


Item	PLC Maker	OMRON	Mitsubishi	Keyence
With power supply terminals	Appearance			
	Model	XW2R-N□□GD-C□-COM	XW2R-G32GD-M1-COM	
	Page	Page 2	Page 10	
Without power supply terminals	Appearance			
	Model	XW2R-□34GD-C□	XW2R-□34GD-M□	XW2R-J□□GD-K□
	Page	Page 7	Page 14	Page 17

Options (Order Separately)

Connecting Cables for Connector-Terminal Block Conversion Units Refer to the XW2Z datasheet.

Model List



Models for OMRON PLCs

Models with 16 Poles

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs	Connecting cables *
	32	CJ1W-ID231	XW2R-N16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
lmmust	32	CS1W-ID231	AW2R-N10GD-C1-COW. 2 pcs	AWZZ-
Input	64	CJ1W-ID261	VIMOR NASCR CA COM: 4 mag	XW2Z-□□□D: 2 Cables
	04	CS1W-ID261	XW2R-N16GD-C1-COM: 4 pcs	XWZZ-LILID. 2 Cables
	16	NX-MD6121-6 (inputs)	XW2R-N16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
	10	CJ1W-MD231 (inputs)	XW2R-N16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
I/O		CJ1W-MD261 (inputs)		XW2Z-□□□D: 1 Cable
1/0	32	CS1W-MD261 (inputs)	VIVIOR NASCO CA COM 2 mag	
	32	CS1W-MD262 (inputs)	XW2R-N16GD-C1-COM: 2 pcs	
		CS1W-MD561 (inputs)		
lmmust		CJ1W-ID232		XW2Z-□□□N: 1 Cable
Input	32	CJ1W-ID233	VIVIOR NASCO CA COM 2 mag	
I/O	- 32	CJ1W-MD263 (inputs)	XW2R-N16GD-C1-COM: 2 pcs	
1/0		CJ1W-MD563 (inputs)		
Input	64	CJ1W-ID262	XW2R-N16GD-C1-COM: 4 pcs	XW2Z-□□□N: 2 Cables

*□□□ is replaced by the cable length. Refer to page 4.
Note: Connection is not possible to all OMRON PLC Units.

This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

Models for OMRON PLCs

Models with 32 Poles

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs	Connecting cables *
		NX-ID6142-5	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
la a cata	32	NX-ID6142-6	XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
Input		CJ1W-ID231	XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or
		CS1W-ID231	AVVZIV-NOZGD-C1-COIVI. 1 pcs	XW2Z-□□□□BF-L: 1 Cable
	64	CJ1W-ID261	XW2R-N32GD-C1-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or
	04	CS1W-ID261	AWZR-N3ZGD-C1-COW. Z pcs	XW2Z-□□□□BF-L: 2 Cables
		CJ1W-MD261 (inputs)		XW2Z-□□□B: 1 Cable, or
I/O	32	CS1W-MD261 (inputs)	XW2R-N32GD-C1-COM: 1 pcs	
1/0	32	CS1W-MD262 (inputs)		XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD561 (inputs)		
	32	CJ1W-ID232	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or
Input	32	CJ1W-ID233	AVVZR-N32GD-C2-COIVI. 1 pcs	XW2Z-□□□□FF-L: 1 Cable
прис	64	CJ1W-ID262	XW2R-N32GD-C2-COM: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
I/O	32	CJ1W-MD263 (inputs)	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or
1/0	32	CJ1W-MD563 (inputs)	AWZR-NSZGD-CZ-COM: 1 pcs	XW2Z-□□□□FF-L: 1 Cable

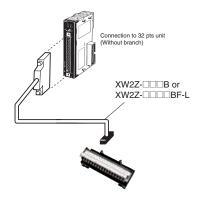
 $[\]clubsuit\,\square\square\square\square$ is replaced by the cable length. Refer to page 4.

Note: Connection is not possible to all OMRON PLC Units.

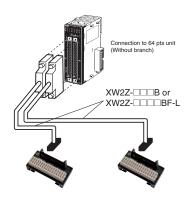
This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

Connection Examples

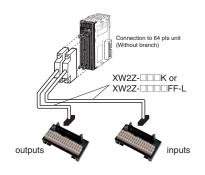
32-point Input Unit CJ1W-ID231 32-point



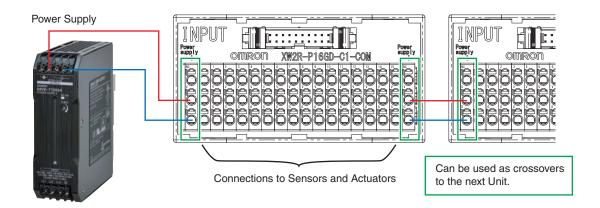
64-point Input Unit CJ1W-ID261 64-point



64-point I/O Unit CJ1W-MD563 IN 32 Points, OUT 32 Points



Application Example

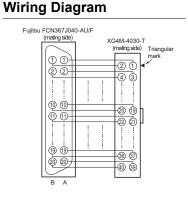


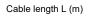
PLC Connecting Cables

XW2Z-UUB, XW2Z-UUBF-L

Connectors: One 40-pin Connector Made by Fujitsu/Otax Component, Ltd. to One 40-pin MIL Connector

Annogrango	Cable langth I (m)	With shield	Without shield
Appearance	Cable length L (m)	Model	Model
	0.5	XW2Z-050B	XW2Z-0050BF-L
	1	XW2Z-100B	XW2Z-0100BF-L
	1.5	XW2Z-150B	XW2Z-0150BF-L
	2	XW2Z-200B	XW2Z-0200BF-L
	3	XW2Z-300B	XW2Z-0300BF-L
	5	XW2Z-500B	XW2Z-0500BF-L
	7	XW2Z-700B	XW2Z-0700BF-L
	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	
	20	XW2Z-20MB	



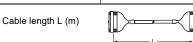




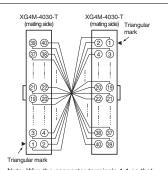
XW2Z-UUUK, XW2Z-UUUUFF-L

Connectors: One 40-pin Connector to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
Appearance	Cable leligtii L (III)	Model	Model
	0.25	XW2Z-C25K	
	0.5	XW2Z-C50K	XW2Z-0050FF-L
	1	XW2Z-100K	XW2Z-0100FF-L
	1.5	XW2Z-150K	XW2Z-0150FF-L
	2	XW2Z-200K	XW2Z-0200FF-L
	3	XW2Z-300K	XW2Z-0300FF-L
•	5	XW2Z-500K	XW2Z-0500FF-L
	7		XW2Z-0700FF-L
	10	XW2Z-010K	XW2Z-1000FF-L



Wiring Diagram



Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

e-CON Type

Ordering Information

Appearance	I/O Points	Input/Output	Model	Dimension A (mm)
	16		XW2R-N16GD-C1-COM	98.5
	32	Input	XW2R-N32GD-C1-COM	186.7
	32		XW2R-N32GD-C2-COM	100.7

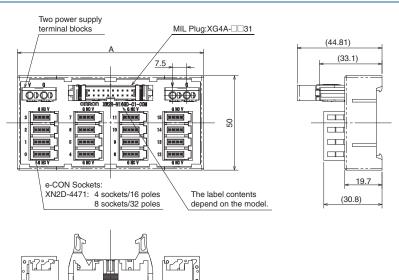
Ratings and Specifications

Rated current		Power supply terminal block: 4 A/16 poles or 8 A/32 poles	
		Connectors/e-CON Connectors: 1 A	
		(However, rated current of e-CON Connector depends on the wires that are used.)	
Rated voltag	е	24VDC	
Insuration re	sistance	100MΩ min. (at 500VDC)	
Dielectric str	ength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient ope	rating temperature	0 to 55°C	
		AWG 24 to 14 (ferrules)	
	Applicable wire	AWG 28 to 14 (stranded wires)	
Applicable	sizes	AWG 28 to 16 (solid wires)*	
wires		(Outer diameter of insulation must be 4 mm max)	
	Ctringed length	AWG28-16: 8 to 10 mm	
Stripped length		AWG14: 9 to 10 mm	

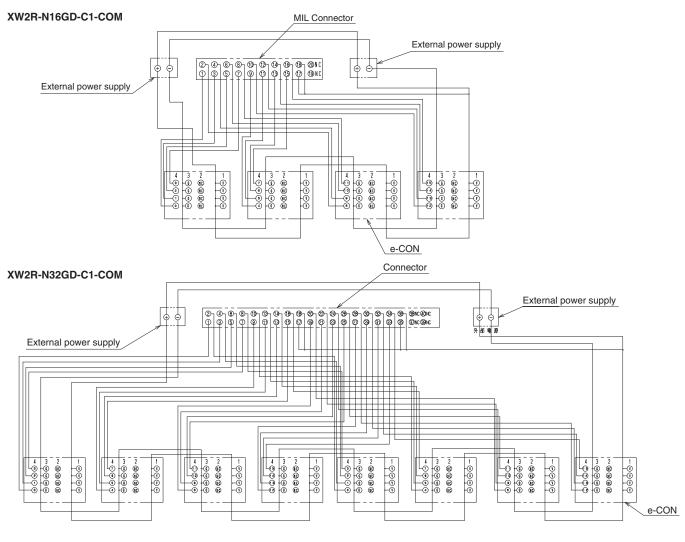
^{*}This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 19.

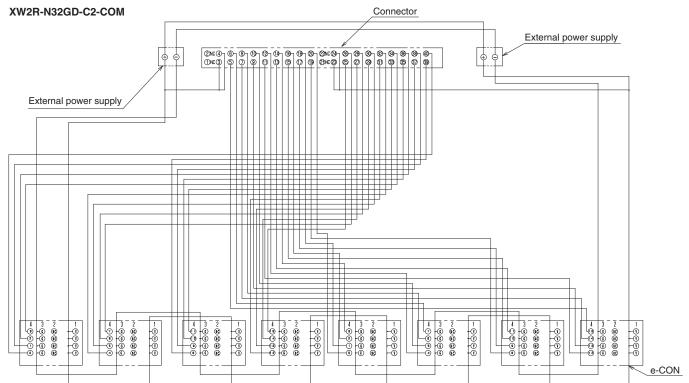
Refer to page 27 for the recommended e-CON Connectors.

Dimensions (Unit: mm)

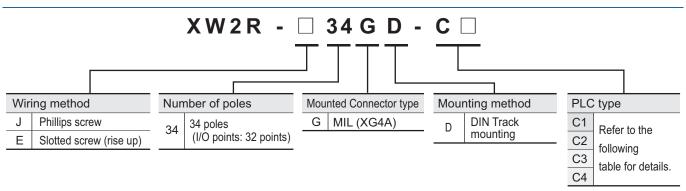


Wiring Diagram





Model List



Models for OMRON PLCs

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs *1	Connecting cables *2
	00	NX-ID6142-6	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
lmmiit	32	CJ1W-ID231	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or
Input		CS1W-ID231	Х₩211-□040В-01. Трсэ	XW2Z-□□□□BF-L: 1 Cable
	64	CJ1W-ID261	XW2R-□34GD-C1: 2 pcs	XW2Z-□□□B: 2 Cables, or
	04	CS1W-ID261	ХW211-2040В-01. 2 рез	XW2Z-□□□BF-L: 2 Cables
		CJ1W-MD261 (inputs)		
I/O	32	CS1W-MD261 (inputs)	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or
1/0	02	CS1W-MD262 (inputs)	XW211-04-05-01. 1 pos	XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD561 (inputs)		
	32	NX-ID6142-5	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
Input	32	CJ1W-ID232	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or
IIIput		CJ1W-ID233	AWZIN-BO4GB-GZ. 1 pcs	XW2Z-□□□□FF-L: 1 Cable
	64	CJ1W-ID262	XW2R-□34GD-C2: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
I/O	32	CJ1W-MD263 (inputs)	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or
1/0	32	CJ1W-MD563 (inputs)	XW2R-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	XW2Z-□□□□FF-L: 1 Cable
		NX-OD6121-6	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
	32	CJ1W-OD231		XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-OD231	XW2R-□34GD-C3: 1 pcs	
Output		CS1W-OD232		
		CJ1W-OD261		XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
	64	CS1W-OD261	XW2R-□34GD-C3: 2 pcs	
		CS1W-OD262		AWZZ-BBBI -L. Z Gables
		CJ1W-MD261 (outputs)		XW2Z-□□□B: 1 Cable, or
I/O	32	CS1W-MD261 (outputs)	VIMOD = 240D 00: 4 =	
1/0	32	CS1W-MD262 (outputs)	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD561 (outputs)		
		NX-OD6121-5	VIA 10D - 10A 0D 0A 1 7 7 7	XW2Z-□□□K: 1 Cable, or
		NX-OD6256-5	—————————————————————————————————————	XW2Z-□□□□FF-L: 1 Cable
	32	CJ1W-OD232		
Output		CJ1W-OD233	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-OD234		AVVZZ-UUUUFF-L. I Caple
	24	CJ1W-OD262	MANOR =2405 04 0	XW2Z-□□□K: 2 Cables, or
	64	CJ1W-OD263	XW2R-□34GD-C4: 2 pcs	XW2Z-□□□□FF-L: 2 Cables
1/0	20	CJ1W-MD263 (outputs)	VIAVOD =2.4.0D, 0.4.4.4.	XW2Z-□□□K: 1 Cable, or
I/O	32	CJ1W-MD563 (outputs)	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□□FF-L: 1 Cable

^{*1} Replace the box (\square) with the wiring method code (J or E).

^{2.} There is one common for each 32 points.

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
A-4		XW2R-J34GD-C1
THE	00 (04)	XW2R-J34GD-C2
STREET, STREET,	32 (34)	XW2R-J34GD-C3
		XW2R-J34GD-C4

*Only DIN Track mounting models are described here.

Ratings and Specifications

Rated current		0.5 A/signal, 4 A/common	
Rated voltage		24VDC	
Insurati	on resistance	100MΩ min. (at 500VDC)	
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)	
Ambien tempera	t operating sture	0 to 55°C	
Applicable wire sizes		AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)	
wires	Stripped length	9 mm	
	Tightening	0.5 N·m	

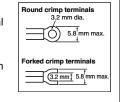
Details on Crimp Terminals

Wiring Terminal Blocks

• Using Crimp Terminals (With a Terminal Block with M3 Screws)

Terminal Screw Tightening Torque

 $\bullet\,$ Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

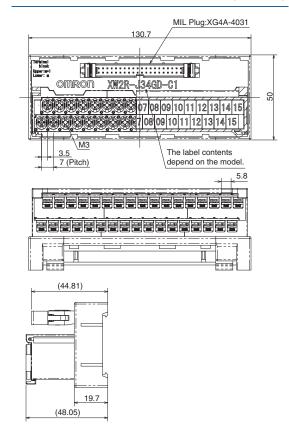


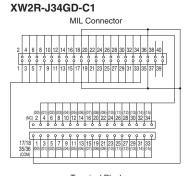
Applicable crimp ter	minals	Applicable wires
Round crimp terminals 1.25-3		AWG 22 to 16 (0.30 to 1.25 mm ²)
Forked crimp terminals 1.25Y-3		AWG 22 to 16 (0.30 to 1.25 mm ²)

Dimensions

(Unit: mm)

Wiring Diagram





MIL Connector

Terminal Block

Terminal Block

XW2R-J34GD-C4

XW2R-J34GD-C2

Terminal Block

Terminal Block

Label Contents

XW2R-J34GD-C1, XW2R-J34GD-C2

 $\begin{smallmatrix} \text{COM} \\ \text{m} \end{smallmatrix} 0 \ 0 \ 0 \ 1 \ 0 \ 2 \ 0 \ 3 \ 0 \ 4 \ 0 \ 5 \ 0 \ 6 \ 0 \ 7 \ 0 \ 8 \ 0 \ 9 \ 1 \ 0 \ 1 \ 1 \ 1 \ 2 \ 1 \ 3 \ 1 \ 4 \ 1 \ 5 \\ \end{smallmatrix}$

XW2R-J34GD-C3, XW2R-J34GD-C4

XW2R-J34GD-C3

 $^{\,\,+\,\,\vee}_{n+1} \, | \, 0 \, 0 \, | \, 0 \, 1 \, | \, 0 \, 2 \, | \, 0 \, 3 \, | \, 0 \, 4 \, | \, 0 \, 5 \, | \, 0 \, 6 \, | \, 0 \, 7 \, | \, 0 \, 8 \, | \, 0 \, 9 \, | \, 1 \, 0 \, | \, 1 \, 1 \, | \, 1 \, 2 \, | \, 1 \, 3 \, | \, 1 \, 4 \, | \, 1 \, 5 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, | \, 1 \, |$ $\begin{smallmatrix} 0.7 \\ m \end{smallmatrix} | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 |$

Slotted screw (rise up)

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
		XW2R-E34GD-C1
	00 (04)	XW2R-E34GD-C2
	32 (34)	XW2R-E34GD-C3
		XW2R-E34GD-C4

^{*}Only DIN Track mounting models are described here.

Ratings and Specifications

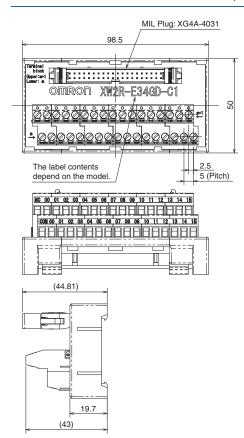
Rated current		0.5 A/signal, 4 A/common	
Rated voltage		24VDC	
Insuration resistance		100MΩ min. (at 500VDC)	
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature		0 to 55°C	
Appli Applicable wire sizes		AWG 22 to 16 (ferrules) AWG 26 to 16 (stranded or solid wires)	
cable wires	Stripped length	7 mm	
Wiles	Tightening	0.5 to 0.6 N·m	

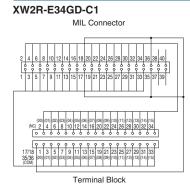
Applicable crimp terminals		Applicable wires	Round rod Dia.
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)	8-10 mr
Rod	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm ²)	Blade t = 0.75 8-10 mm
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm ²)	W 8-10 mm

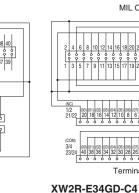
Dimensions

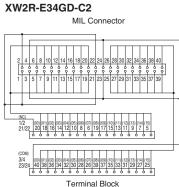
(Unit: mm)

Wiring Diagram

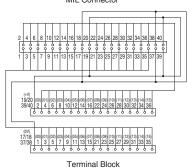


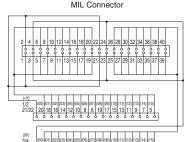






XW2R-E34GD-C3 MIL Connector





Terminal Block

Label Contents

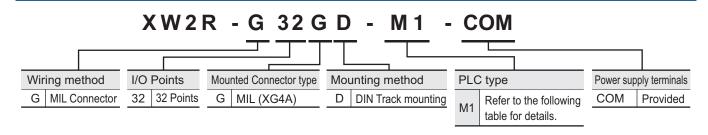
XW2R-E34GD-C1, XW2R-E34GD-C2

_____ COM 0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 1 4 1 5

XW2R-E34GD-C3, XW2R-E34GD-C4

 $+ \sqrt{0\,0\,0\,1\,0\,2\,0\,3\,0\,4\,0\,5\,0\,6\,0\,7\,0\,8\,0\,9\,1\,0\,1\,1\,1\,2\,1\,3\,1\,4\,1\,5\,} \quad \stackrel{m+1}{\longrightarrow} \quad$ _____ 0 V 0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 1 4 1 5

Model List



MIL Connector

Models for Connection to Mitsubishi PLCs

I/O Points	Model	Models that connect to PLCs	Connecting cables*
32	QX41, QX41-S1, QX41-S2, QX71		Connection A XW2Z-□□□B: 1 Cable, or
	QH42P(Input) , QX41Y41P (Input)	XW2R-G32GD-M1-COM: 1 pcs	XW2Z-□□□□B. F Cable, of XW2Z-□□□□BF-L: 1 Cable Connection B XW2Z-□□□AA: 4 Cables
	LX41C4		
64	QX42, QX42-S1, QX82, QX82-S1	- XW2R-G32GD-M1-COM: 2 pcs	Connection A XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
	LX42C4	7.VV211-0320D-IVI1-00IVI. 2 pcs	Connection B XW2Z-□□□AA: 8 Cables

^{* \}colon cable length.

Note: This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

XW2Z-OOB, XW2Z-OOBF-L

Connectors: One 40-pin Connector Made by Fujitsu/Otax Component, Ltd. to One 40-pin MIL Connector

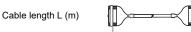
Appearance	Cable length L	With shield	Without shield
Appearance	(m)	Model	Model
	0.5	XW2Z-050B	XW2Z-0050BF-L
	1	XW2Z-100B	XW2Z-0100BF-L
	1.5	XW2Z-150B	XW2Z-0150BF-L
	2	XW2Z-200B	XW2Z-0200BF-L
	3	XW2Z-300B	XW2Z-0300BF-L
	5	XW2Z-500B	XW2Z-0500BF-L
	7	XW2Z-700B	XW2Z-0700BF-L
•	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	
	20	XW2Z-20MB	



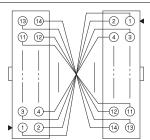
Wiring Diagram

XW2Z-DDAA One 14-pin MIL Connector to One 14-pin MIL Connector

Annogranos	Cable length L (m)	With shield
Appearance	Cable length L (m)	Model
	0.5	XW2Z-050AA
	1	XW2Z-100AA
	2	XW2Z-200AA
	5	XW2Z-500AA
	10	XW2Z-010AA

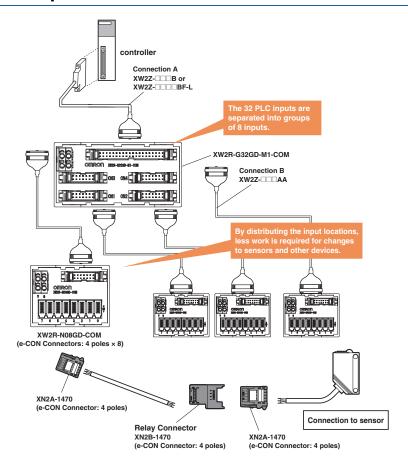


Wiring Diagram



Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

Connection Examples



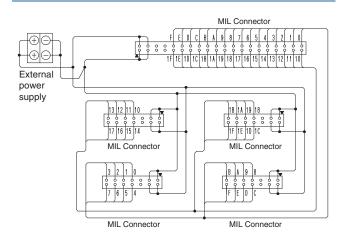
Ordering Information

Appearance	Model	Number of poles
	XW2R-G32GD-M1-COM	40 poles x 1 point 14 poles x 4 points

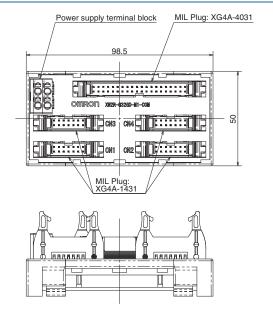
Ratings and Specifications

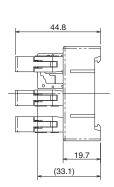
Rated curre	nt	Power supply terminal block: 8A Connectors: 1A	
Rated voltage		24VDC	
Insuration resistance		100MΩ min. (at 500VDC)	
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature		0 to 55°C	
Applicable wire sizes wires		AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded wires) AWG 28 to 16 (solid wires) (Outer diameter of insulation must be 4 mm max)	
	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm	

Wiring Diagram



Dimensions (Unit: mm)





Ordering Information

Appearance	I/O Points	Number of poles (PLC end)	I/O	Model	Mounted Connector model	Cable Connector model
	8 points	14 poles	Input	XW2R-N08GD-COM	XG4A-1431 (PLC end) XN2D-4471 (for input)	XG4M-1430-T (PLC end) XN2A-1470 (for input)

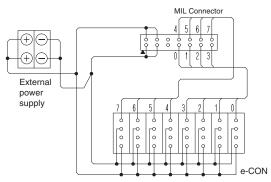
Ratings and Specifications

Rated current		Power supply terminal block: 2A Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)	
Rated volta	ge	24VDC	
Insuration r	esistance	100MΩ min. (at 500VDC)	
Dielectric s	trength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient op temperature	•	0 to 55°C	
Applicable wire sizes *		AWG 24 to 14 (ferrules), AWG 28 to 14 (stranded wires), AWG 28 to 16 (solid wires) (Outer diameter of insulation must be 4 mm max)	
	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm	

^{*}This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 19.

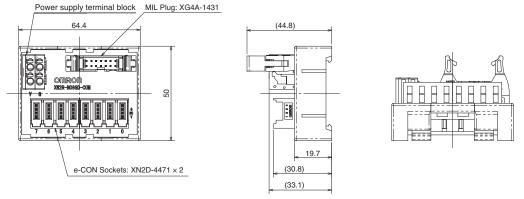
Refer to page 19 for the recommended e-CON Connectors.

Wiring Diagram

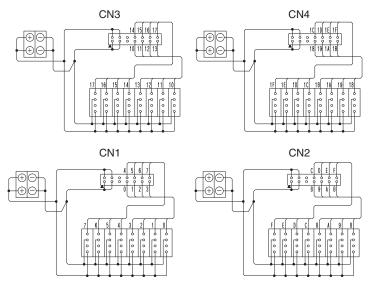


(This connection diagram is for combining with CN1 on the XW2R-G32GD-M1-COM.) $\label{eq:connection} % \begin{center} \begin$

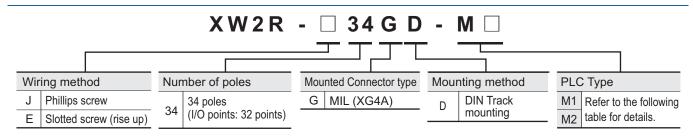
Dimensions (Unit: mm)



The e-CON address assignments are for combining the XW2R-G32GD-M1-COM with four XW2R-N08GD-COM.



Model List



Models for Connection to Mitsubishi PLCs

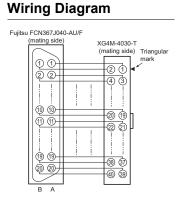
PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs *1	Connecting cables *2
		LX41C4		
		QX41/QX41-S1/QX41-S2		XW2Z-□□□B: 1 Cable, or XW2Z-□□□BF-L: 1 Cable
		QX71		
	32	RX41C4	XW2R-□34GD-M1: 1 pcs	
		QH42P (Input)		XVVZZ-BBBI-E. I Gubic
M1		QX41Y41P (Input)		
		RH42C4NT2P (Input)		
		LX42C4		
	64	QX42/QX42-S1	XW2R-□34GD-M1: 2 pcs	XW2Z-\ _\B: 2 Cables, or XW2Z-\ _\BF-L: 2 Cables
	64	QX82/QX82-S1	XW2R-□34GD-W1: 2 pcs	
		RX42C4		
	32	LY41NT1P		XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		QY41P		
		QY71		
		RY41NT2P	VM2D = 24CD M2: 4 mag	
		RY41PT1P	— XW2R-□34GD-M2: 1 pcs	
		QH42P (Output)		
M2		QX41Y41P (Output)		
		RH42C4NT2P (Output)		
		LY42NT1P		
		QY42P		
	64	QY82P	XW2R-□34GD-M2: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 1 Cable
		RY42NT2P		AVVZZ-GGGGG -L. I Cable
		RY42PT1P		

^{*1} Replace the box (\square) with the wiring method code (J or E).

XW2Z-□□□B, XW2Z-□□□□BF-L

Connectors: One 40-pin Connector Made by Fujitsu/Otax Component, Ltd. to One 40-pin MIL Connector

Annogrance	Cable langth I (m)	With shield	With shield
Appearance	Cable length L (m)	Model	Model
	0.5	XW2Z-050B	XW2Z-0050BF-L
	1	XW2Z-100B	XW2Z-0100BF-L
	1.5	XW2Z-150B	XW2Z-0150BF-L
	2	XW2Z-200B	XW2Z-0200BF-L
	3	XW2Z-300B	XW2Z-0300BF-L
	5	XW2Z-500B	XW2Z-0500BF-L
	7	XW2Z-700B	XW2Z-0700BF-L
-	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	
	20	XW2Z-20MB	
Cable length L (m)			



^{*2} □□□□ is replaced by the cable length.

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-J34GD-M1
The state of the s	32 (04)	XW2R-J34GD-M2

* Only DIN Track mounting models are described here.

Ratings and Specifications

Rated	current	0.5 A/signal, 2 A/common
	voltage	24VDC
Insura	tion resistance	100MΩ min. (at 500VDC)
	tric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambie tempe	nt operating rature	0 to 55°C
Annli	Applicable	AWG 22 to 16 (round or forked crimp terminals)
Appli cable	wire sizes	AWG 26 to 16 (stranded or solid wires)
wires	Stripped length	9 mm
03	Tightening	0.5 N·m

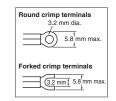
Details on Crimp Terminals

Wiring Terminal Blocks

 Using Crimp Terminals (With a Terminal Block with M3 Screws)

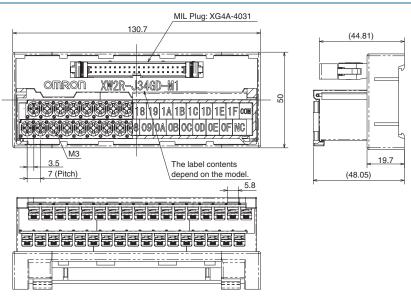
Terminal Screw Tightening Torque

 Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

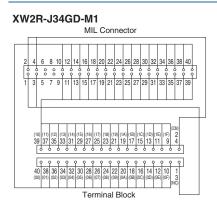


Applicable crimp ter	minals	Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm ²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm ²)

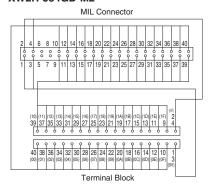
Dimensions (Unit: mm)



Wiring Diagram



XW2R-J34GD-M2



Label Contents

XW2R-J34GD-M1

101112131415161718191A1B1C1D1E1Fcom

XW2R-J34GD-M2

101112131415161718191A1B1C1D1E1F+V

Slotted screw (rise up)

Ordering Information

Appearance	I/O Points (Number of poles)	Model *						
	32 (34)	XW2R-E34GD-M1						
	32 (34)	XW2R-E34GD-M2						

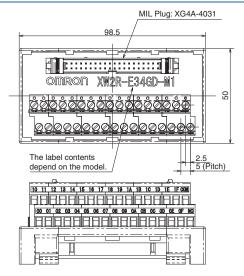
^{*}Only DIN Track mounting models are described here.

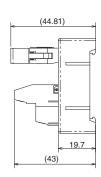
Ratings and Specifications

Rated co	urront	0.5 A/signal, 2 A/common							
Rated vo	oltage	24VDC							
Insuration	on resistance	100MΩ min. (at 500VDC)							
Dialogatui	la atuan mth	500VAC for 1 min							
Dielectr	ic strength	(leakage current: 1 mA max.)							
Ambient tempera	t operating ture	0 to 55°C							
	Applicable wire	AWG 22 to 16 (ferrules)							
Applic able	sizes	AWG 26 to 16 (stranded or solid wires)							
wires	Stripped length	7 mm							
55	Tightening	0.5 to 0.6 N·m							

Details	Details on Crimp Terminals												
	cable crimp erminals	Applicable wires	Round rod Dia.										
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)	8-10 mm										
Nou	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm ²)	Blade t = 0.75 8-10 mm										
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm ²)	W 8-10 mm										
Note: F	Round rod and	blade crimp terminals	are made by Nichifu.										

Dimensions (Unit: mm)





Wiring Diagram

XW2R-E34GD-M1

Terminal Block

XW2R-E34GD-M2

Label Contents

XW2R-E34GD-M1

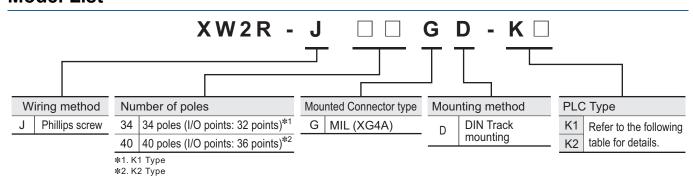
10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F COM
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F NC

XW2R-E34GD-M2

10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F +V

Models for Keyence PLCs without power supply terminals

Model List



Models for Keyence PLCs

I/O	I/O Points			Models that connect to PLCs	Connecting cables *1				
Input			KV-C32XA, KV-C32XC						
Output	32		KV-C32TA, KV-C32TC, KV-C32TCP	XW2R-J34GD-K1: 1 pcs	XW2Z-□□□EE: 1 Cable, or				
Output I/O	32	I/O Unit	KV-C32TD	XW2R-334GD-R1. 1 pcs	XW2Z-□□□□EE-L: 1 Cable				
I/O		Model	KV-C32XTD						
Input	64		KV-C64XA, KV-C64XB, KV-C64XC	XW2R-J34GD-K1: 2 pcs	XW2Z-□□□EE: 2 Cables, or				
Output	04		KV-C64TA, KV-C64TC, KV-C64TD, KV-C64TCP	λW2R-334GD-R1. 2 pcs	XW2Z-DDDEE-L: 2 Cables				
		CPU Unit Model	KV-1000, KV-3000, KV-5000, KV-5500	XW2R-J40GD-K2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable				

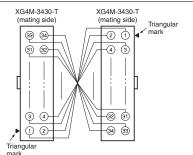
^{*1} □□□□ is replaced by the cable length.

XW2Z-ODEE, XW2Z-ODEE-L

Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

Appearance	Cable length L	With shield	Without shield
Appearance	(m)	Model	Model
	0.5	XW2Z-050EE	XW2Z-0050EE-L
	1	XW2Z-100EE	XW2Z-0100EE-L
	1.5	XW2Z-150EE	XW2Z-0150EE-L
	2	XW2Z-200EE	XW2Z-0200EE-L
	3	XW2Z-300EE	XW2Z-0300EE-L
	5	XW2Z-500EE	XW2Z-0500EE-L
	7		XW2Z-0700EE-L
	10		XW2Z-1000EE-L
Cable length L (m)			_





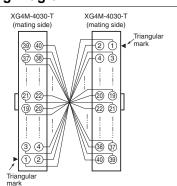
Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

Connectors: One 40-pin MIL Connector to One 40-pin MIL Connector

Annogrance	Cable length L	With shield	Without shield						
Appearance	(m)	Model	Model						
	0.25	XW2Z-C25K							
	0.5	XW2Z-C50K	XW2Z-0050FF-L						
	1	XW2Z-100K	XW2Z-0100FF-L						
	1.5	XW2Z-150K	XW2Z-0150FF-L						
	2	XW2Z-200K	XW2Z-0200FF-L						
	3	XW2Z-300K	XW2Z-0300FF-L						
•	5	XW2Z-500K	XW2Z-0500FF-L						
	7		XW2Z-0700FF-L						
	10	XW2Z-010K	XW2Z-1000FF-L						

Cable length L (m)

Wiring Diagram



Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

Models for Keyence PLCs without power supply terminals

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *	Dimension A (mm)
	32 (34)	XW2R-J34GD-K1	130.7
	36 (40)	XW2R-J40GD-K2	151.7

^{*}Only DIN Track mounting models are described here.

Ratings and Specifications

Rated c	urrent	1A						
Rated v	oltage	125 VAC/DC						
Insurati resistar	~	100MΩ min. (at 500VDC)						
Dielectr	ic strength	500VAC for 1 min (leakage current: 1 mA max.)						
Ambien tempera	t operating ature	0 to 55°C						
Applic	Applicable wire sizes	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)						
able wires	Stripped length	9 mm						
	Tightening	0.5 N·m						

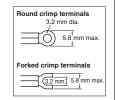
Details on Crimp Terminals

Wiring Terminal Blocks

 Using Crimp Terminals (With a Terminal Block with M3 Screws)

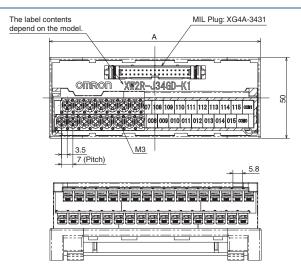
Terminal Screw Tightening Torque

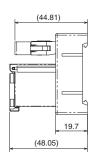
 Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



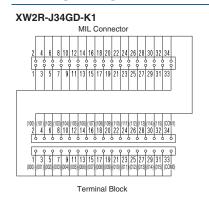
Applicable crimp ter	minals	Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm ²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm ²)

Dimensions (Unit: mm)

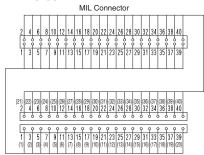




Wiring Diagram



XW2R-J40GD-K2



Terminal Block

Label Contents

^	XW2R-J34GD-K1																																							
	1	0 (1	1 (1	1	0	2	11) 3	1	0	4	1 (5	11) (1	0	7	1 (8 (1	0 9) 1	1 1	0	1	1 1	1	1	2	1 1	3	1	1 4	1	15	COM	1
0 (0 (0	0	1	0	0 2	2 0	10	3	0	0	4 (0	5	0 (6 (0	0.	7 0	0 (8	0	0 9	0	1	0	0 1	11	0	12	2	1	3	0	14	0	15	CC	MO	

XW2R-J40GD-K2

	2	1	2 2	2 3	3 2	2 4	2	5 2	6	2	7	28	2	9	3	0	3	1	3	2	3	3	3	4	3	5	3	6	3	7	3	8	3	9	4	0
-	1	2		3	4	15	;	6	ŀ	,	8	П	9	1	0	1	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	9	2	0	

Input Device Connectors: XN2 e-CON Connectors

Ordering Information

For Sensor

Appearance	Number of poles	Model
The same of the sa	4	XN2A-1470

Relay Connector

Appearance	Number of poles	Model
	4	XN2B-1470

Ratings and Specifications

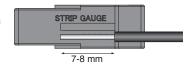
Rated current	3 A/pin (with AWG20 wires), 2 A/pin (with AWG22 wires), 1 A/pin (with AWG24 wires), 0.5 A/pin (with AWG26 or AWG28 wires)
Rated voltage	32 VDC
Contact resistance	30 mΩ max. (at 20 mV, 100 mA max.)
Insuration resistance	$10^3 \mathrm{M}\Omega$ min. (at 500VDC)
Dielectric strength	1,000 VAC for 60 sec (leakage current: 1 mA max.)
Insertion durability	50 times
Ambient operating temperature	-30 to 75°C *
Applicable wires	Stranded wire 0.08mm² (AWG28) to 0.5mm² (AWG20) (Outer diameter of insulation must be 1.5 mm max)

^{*}The operating temperature range is restricted by the maximum operating temperature of the cable.

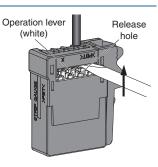
Wiring Procedure

Wire Preparation

Use the strip gauge on the front panel and strip 7 to 8 mm of the insulation. If you use stranded wires, twist them several times.

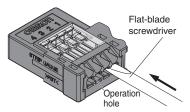


Insert a flat-blade screwdriver into the release hole and gently reset the lever. You should hear the operation lever reset.

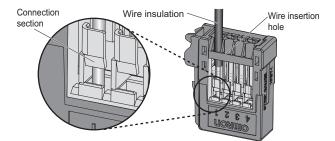


Connection Procedure

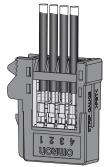
 Press a flat-blade screwdriver into the operation hole until the operation lever locks into place.



Insert the wire all the way into the wire insertion hole. Confirm that the insulation on the wire also enters the wire insertion hole and that the end of the wire has passed through the connection section.

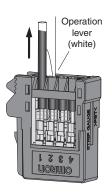


- 4. Finally, check the following items.
- Make sure the operation lever has been reset.
- Check the items given in step 2 again.
 (Pull lightly on the wire to see if it is held firmly in place.)



Disconnection Procedure

- Press in the operation level, confirm that the operation lever is locked into place, and then pull out the wire.
- After you remove the wire, always reset the operation lever. However, if you are going to connect another wire to the same terminal, you do not need to reset the operation lever and can immediately connect the other wire.



Safety Precautions

Precautions for Correct Use

Wiring Precautions

- Do not perform wiring work, remove connectors, or connect connectors while power is being supplied. Electric shock or damage to the device may result.
- Double-check all wiring before turning ON the power supply.
- After wiring, route the cable so that force is not applied directly to the connections.

Wires for Terminal Blocks

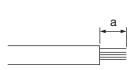
- Do not damage the cores when stripping the insulation from them.
- Always twist stranded wires together before connecting them.
- Do not presolder wires. It may not be possible to connect them or remove them.

XW2R-P□□ type (Square/Round ferrule)

Type of terminal	Manufacturer	Size	Recommend ferrule	Recommend crimp tool		
		AWG24	AI0.25-8□□			
		AWG22	AI0.34-8TQ			
	Phoenix Contact	AWG20	AI0.5-10WH AI0.5-8WH	CRIMFOX6		
	Prideriix Contact	AWG18	AI0.75-10GY AI0.75-8GY	CRIMPOXO		
		AWG16	AI1.5-10BK			
Square ferrule		AWG14	AI2.5-8BU			
		AWG24	H0.25/12			
		AWG22	H0.34/12			
	Weidmuller	AWG20	H0.5/14	PZ6 roto		
	vveidmuller	AWG18	H0.75/14	P26 1010		
		AWG16	H1.5/14			
		AWG14	H2.5/15D			
Round ferrule	Nichifu	AWG22- AWG16	TGV TC-1.25-9T	NH11 NH32 NH65		

Note: □□ of ferrule model is for color (Ex: YE = Yellow)

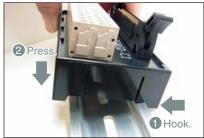
When an electric wire is connected directly (J,E,P type)



Model	Strip length "a"
XW2R-J□□	9 mm
XW2R-E□□	7 mm
XW2R-P□□	AWG28-16: 8 to 10 mm
AVVZR-PUL	AWG14: 9 to 10 mm

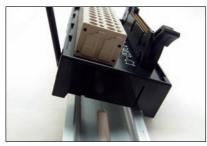
Mounting Units to and Removing Units from DIN Track

Mounting Procedure



- 1. Hook the Unit on the DIN Track
- 2. Press the Unit onto the DIN Track to secure it.

Removal Procedure



- 1. Insert a flat-blade screwdriver into the DIN Track lock.
- 2. Move the screwdriver like a lever to free the lock.

Use tool

• Select a use tool from following table.

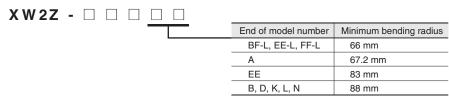
Model	Use tool	Specialized tool and dimension
XW2R-J□□	Phillips screwdriver	JIS#2
XW2R-E□□	Flat-blade screwdriver	Model XW4Z-00B Head of screwdriver Is 0.4 x 2.5mm max.

Flat-blade screwdriver



Bending Radius of Connecting Cables

• To prevent damaging the Connecting Cables, use the following minimum bending radii as guidelines.



For checking electrical continuity

• XW2R-E type: There is no electrical continuity in the screw, Please confirm it at hole for confirming continuity or wiring part.

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