Connector-Terminal Block Conversion Units for PLCs

XW2R

CSM_XW2R-C_M_K_DS_E_5_6

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, push-in, 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-□□□GD-C□-COM	XW2R-□32GD-M□-COM	XW2R-P32GD-K1-COM
	Page	Page 2	Page 13	Page 22
Without power supply terminals	Appearance			
	Model	XW2R-□34GD-C□	XW2R-□34GD-M□	XW2R-□□□GD-K□
	Page	Page 9	Page 18	Page 24

Options (Order Separately)

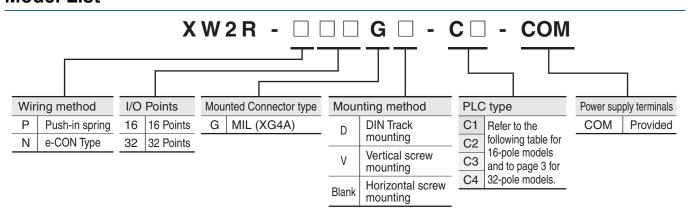
Models that are mounted with screws are also available.

 $Refer to the \textit{XW2R-series Connector-Terminal Block Conversion Units Catalog} \ (Cat. \ No. \ G077) \ for \ details.$

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-P16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
Input	32	CS1W-ID231	XW2R-N16GD-C1-COM: 2 pcs	AVVZZ-UUD. I Cable
iliput	64	CJ1W-ID261	XW2R-P16GD-C1-COM: 4 pcs	XW2Z-□□□D: 2 Cables
	04	CS1W-ID261	XW2R-N16GD-C1-COM: 4 pcs	AVVZZ-
	16	NX-MD6121-6 (inputs)	XW2R-P16GD-C1-COM: 1 pcs XW2R-N16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
	10	CJ1W-MD231 (inputs)	XW2R-P16GD-C1-COM: 1 pcs XW2R-N16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
I/O		CJ1W-MD261 (inputs)		
	32	CS1W-MD261 (inputs)	XW2R-P16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
	32	CS1W-MD262 (inputs)	XW2R-N16GD-C1-COM: 2 pcs	AVVZZ
		CS1W-MD561 (inputs)		
Input		CJ1W-ID232		
iliput	32	CJ1W-ID233	XW2R-P16GD-C1-COM: 2 pcs	XW2Z-□□□N: 1 Cable
I/O	32	CJ1W-MD263 (inputs)	XW2R-N16GD-C1-COM: 2 pcs	XWZZ-LLIN. I Gable
1/0		CJ1W-MD563 (inputs)		
Input	64	CJ1W-ID262	XW2R-P16GD-C1-COM: 4 pcs XW2R-N16GD-C1-COM: 4 pcs	XW2Z-□□□N: 2 Cables
		CJ1W-OD231		
		CS1W-OD231	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□L: 1 Cable
	32	CS1W-OD232		
	32	CJ1W-OD232		
Output		CJ1W-OD233	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□N: 1 Cables
Output		CJ1W-OD234		
		CJ1W-OD261	XW2R-P16GD-C3-COM: 4 pcs	XW2Z-□□□L: 2 Cables
	64	CS1W-OD261	λw2N-F 10GD-C3-COW. 4 pcs	AVVZZ-
	04	CJ1W-OD262	XW2R-P16GD-C3-COM : 4 pcs	XW2Z-□□□N: 2 Cables
		CJ1W-OD263	AW2N-F 10GD-C3-COM : 4 pcs	AWZZ-
	16	NX-MD6121-6 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-□□□A: 1 Cable
	10	CJ1W-MD231 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-□□□A: 1 Cable
I/O	I/O	CJ1W-MD261 (outputs)		
1/0	32	CS1W-MD261 (outputs)	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□L: 1 Cable
	52	CS1W-MD262 (outputs)	λτιζίτ-ι 100Β-00-00ίνι. 2 μος	AVZZ-LLL. I Cable
		CS1W-MD561 (outputs)		

^{* □□□} 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-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
	32	NX-ID6142-6	XW2R-N32GD-C2-COM: 1 pcs XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
Input		CJ1W-ID231	XW2R-P32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable. or
		CS1W-ID231	XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□□BF-L: 1 Cable
		CJ1W-ID261	XW2R-P32GD-C1-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or
	64	CS1W-ID261	XW2R-N32GD-C1-COM: 2 pcs	XW2Z-□□□□BF-L: 2 Cables
		CJ1W-MD261 (inputs)		
110		CS1W-MD261 (inputs)	XW2R-P32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or
I/O	32	CS1W-MD262 (inputs)	XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD561 (inputs)		
	20	CJ1W-ID232	XW2R-P32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or
Input	32	CJ1W-ID233	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□□FF-L: 1 Cable
input	64	CJ1W-ID262	XW2R-P32GD-C2-COM: 2 pcs XW2R-N32GD-C2-COM: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
I/O	32	CJ1W-MD263 (inputs)	XW2R-P32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or
1/0	32	CJ1W-MD563 (inputs)	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□□FF-L: 1 Cable
		NX-OD6121-5	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or
		NX-OD6256-5	AWZR-P3ZGD-C4-COW. 1 pcs	XW2Z-□□□□FF-L: 1 Cable
	32	NX-OD6121-6	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
Output		CJ1W-OD231		XW2Z-□□□B: 1 Cable, or
Output		CS1W-OD231	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: I Cable, of XW2Z-□□□BF-L: 1 Cable
		CS1W-OD232		AWZZ-BBBB -L. 1 Gable
		CJ1W-OD261		XW2Z-□□□B: 2 Cables, or
	64	CS1W-OD261	XW2R-P32GD-C3-COM: 2 pcs	XW2Z-
		CS1W-OD262		AWZZ-BBB -L. Z Gables
		CJ1W-MD261 (outputs)		
I/O	32	CS1W-MD261 (outputs)	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or
1/0	32	CS1W-MD262 (outputs)	AWZN-F3ZGD-C3-COW. 1 pcs	XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD561 (outputs)		
		CJ1W-OD232		VM07
	32	CJ1W-OD233	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
Output		CJ1W-OD234		AWZZ-UUUIII-L. I Gable
	64	CJ1W-OD262	XW2R-P32GD-C4-COM: 2 pcs	XW2Z-□□□K: 2 Cables, or
	04	CJ1W-OD263	AWZR-P3ZGD-04-00W: 2 pcs	XW2Z-□□□□FF-L: 2 Cables
I/O	32	CJ1W-MD263 (outputs)	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or
1/0	32	CJ1W-MD563 (outputs)	AVVZR-F3ZGD-C4-COIVI: 1 pcs	XW2Z-□□□□FF-L: 1 Cable

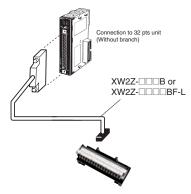
 $[\]clubsuit \square \square \square \square$ is replaced by the cable length. Refer to page 4.

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

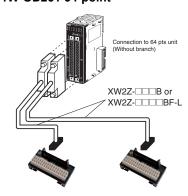
This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

Connection Examples

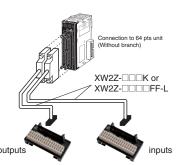
32-point Input Unit or Output Unit CJ1W-ID231 32-point CJ1W-OD231 32-point



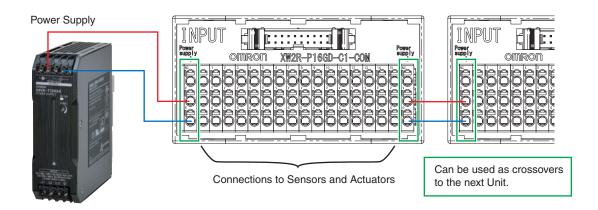
64-point Input Unit or Output Unit CJ1W-ID261 64-point CJ1W-OD261 64-point



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



Application Example

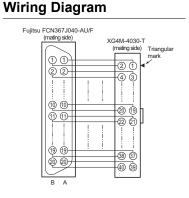


PLC Connecting Cables

XW2Z-UUB, XW2Z-UUBF-L

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

Annogrange	Coble length L (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	







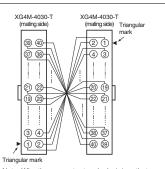
Connectors: One 40-pin Connector to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
Appearance	Cable length 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.

Push-in spring

Ordering Information

Appearance *1	I/O Points	Input/Output	Model *2	Dimension A (mm)
	16	Input	XW2R-P16GD-C1-COM	98.5
	10	Output	XW2R-P16GD-C3-COM	90.3
		Input	XW2R-P32GD-C1-COM	
		input	XW2R-P32GD-C2-COM	
	32		XW2R-P32GD-C3-COM	186.7
		Output	XW2R-P32GD-C4-COM	

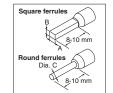
- *1 Input models (XW2R-P GD-C1/C2-COM) are black and output models (XW2R-P GD-C3/C4-COM) are green.
- *2 Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated curre	ent	16 Points: 1A/signal, 4A/common 32 Points: 1A/signal, 8A/common					
Rated volta	ge	24VDC					
Insuration re	esistance	100MΩ min. (at 500VDC)					
Dielectric s	trength	500VAC for 1 ferrulemin (leakage current: 1 mA max.)					
Ambient op temperature		0 to 55°C					
Applicable wires	Applicable wire sizes	AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)					
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm					

Details on Crimp Terminals Applicable Ferrules

 Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts.

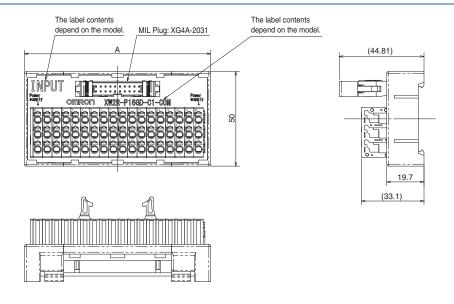


• Ferrule Dimensions

Square	Dimension A (Width)	2.7 mm max.	The cross-sectional area							
ferrules	Dimension B (Height)	2 mm max.	4.8 mm ² or less							
Round Dimension C (Diameter) 2 mm dia. max. (after crimping)										
Refer to page 28 for information on Square/Round ferrule and use tool.										

Dimensions

(Unit: mm)

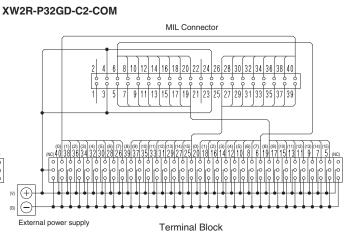


Wiring Diagram

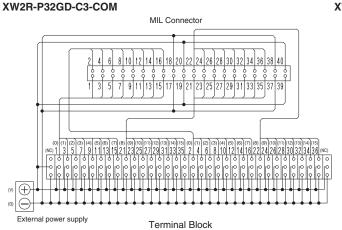
XW2R-P32GD-C1-COM

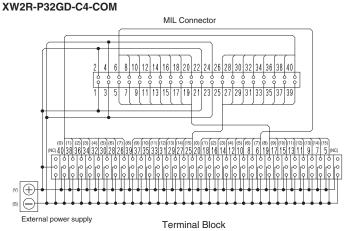
External power supply

MIL Connector 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (c) 1 3 5 7 9 111 13 15 19 21 23 25 27 29 31 33 35 37 39 (c) 1 3 5 7 9 111 13 15 19 21 23 25 27 29 31 33 35 37 39 (c) 1 3 5 7 9 111 13 15 19 21 23 25 27 29 31 33 35 37 39 (c) 1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 (c) 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (d) 2 2 2 2 4 2 6 2 8 30 32 34 36 38 40 (e) 1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 (e) 1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 (e) 1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 (e) 1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 (e) 2 2 2 4 2 6 2 8 30 32 34 36 38 40 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 2 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 (e) 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33



Terminal Block





Label Contents

XW2R-P16GD-C1-COI	V
XW2R-P16GD-C3-COI	V

NC	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	NC
٧	٧	٧	v	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	v
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

XW2R-P32GD-C1-COM, XW2R-P32GD-C3-COM XW2R-P32GD-C2-COM, XW2R-P32GD-C4-COM

NC	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	NC
٧	٧	٧	٧	v	v	٧	٧	v	٧	٧	٧	٧	٧	٧	v	٧	٧	v	٧	٧	v	٧	٧	v	٧	v	٧	٧	v	٧	v	٧	٧
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

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	186.7	

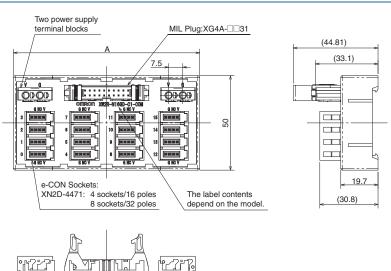
Ratings and Specifications

		Power supply terminal block: 4 A/16 poles or 8 A/32 poles			
Rated current		Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)			
Rated voltage	е	24VDC			
Insuration re	sistance	100M $Ω$ min. (at 500 VDC)			
Dielectric str	ength	500VAC for 1 min (leakage current: 1 mA max.)			
Ambient ope	rating temperature	0 to 55°C			
Applicable wires	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			

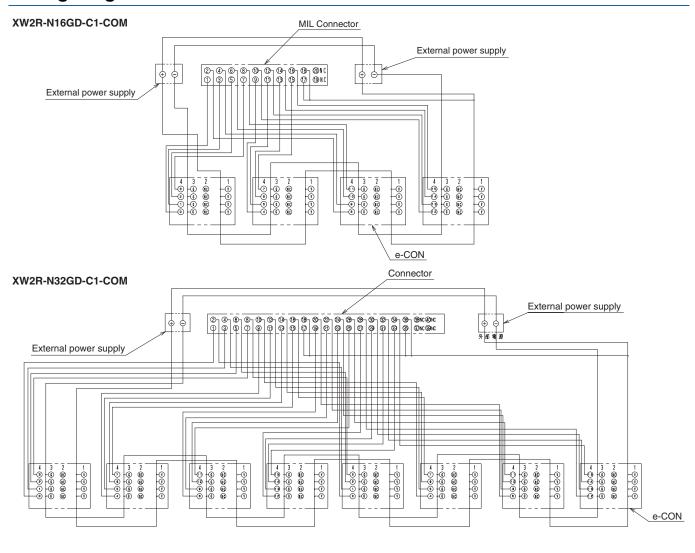
^{*}This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 27.

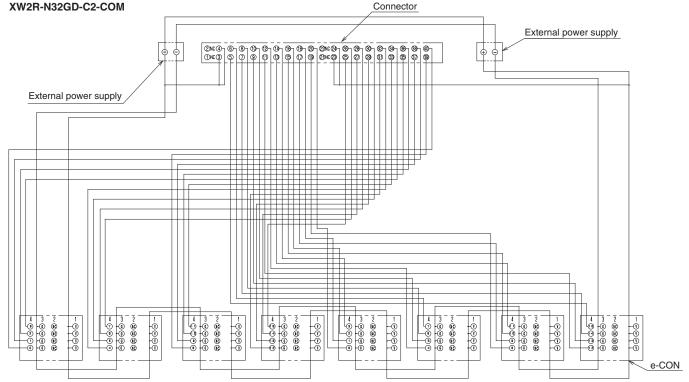
Refer to page 27 for the recommended e-CON Connectors.

Dimensions (Unit: mm)

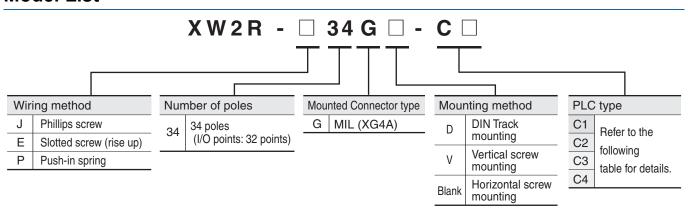


Wiring Diagram





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
Input	32	CJ1W-ID231 CS1W-ID231	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
	64	CJ1W-ID261	XW2R-□34GD-C1: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-ID261 CJ1W-MD261 (inputs)		AWZZ-UUUBF-L: 2 Caples
I/O	32	CS1W-MD261 (inputs)	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or
1/0	52	CS1W-MD262 (inputs) CS1W-MD561 (inputs)	XW2IV-0040D-01. 1 pcs	XW2Z-□□□□BF-L: 1 Cable
		NX-ID6142-5	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
Input	32	CJ1W-ID232 CJ1W-ID233	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or 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) CJ1W-MD563 (inputs)	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or 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		
Output		CS1W-OD231 CS1W-OD232	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		C51W-OD232 CJ1W-OD261		
	64	CS1W-OD261	XW2R-□34GD-C3: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-OD262 CJ1W-MD261 (outputs)		
I/O	32	CS1W-MD261 (outputs)	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or
1/0	32	CS1W-MD262 (outputs) CS1W-MD561 (outputs)	Ανν2Ν	XW2Z-□□□□BF-L: 1 Cable
		NX-OD6121-5		XW2Z-□□□K: 1 Cable, or
		NX-OD6256-5	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□□FF-L: 1 Cable
Output	32	CJ1W-OD232 CJ1W-OD233	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□K: 1 Cable, or
σαιραί		CJ1W-OD233 CJ1W-OD234	ΛΨΖΝ-□04GD-04. 1 pcs	XW2Z-□□□□FF-L: 1 Cable
	64	CJ1W-OD262	XW2R-□34GD-C4: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
1/0	22	CJ1W-OD263 CJ1W-MD263 (outputs)	·	XW2Z-UUUFF-L: 2 Cables XW2Z-UUK: 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, E, or P).

^{*2} is replaced by the cable length. For details, refer to page 4.

Note: 1. Connection is not possible to all OMRON PLC Units.

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

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
		XW2R-J34GD-C1
THE PARTY OF THE P	22 (24)	XW2R-J34GD-C2
STATE OF THE PARTY	32 (34)	XW2R-J34GD-C3
		XW2R-J34GD-C4

^{*}Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

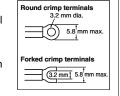
Rated c	urrent	0.5 A/signal, 4 A/common				
Rated v	oltage	24VDC				
Insuration	on resistance	100MΩ min. (at 500VDC)				
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)				
Ambien tempera	t operating sture	0 to 55°C				
Applicable wire sizes		AWG 22 to 16 (round or forked crimp terminals) 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

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

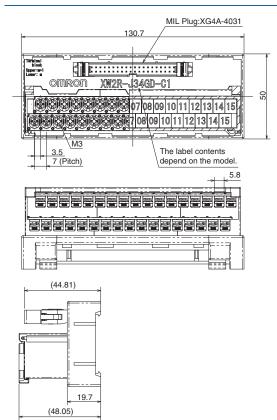


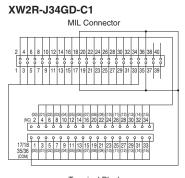
Applicable crimp ter	minals	Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm ²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm ²)

Dimensions

(Unit: mm)

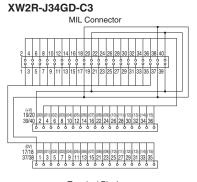
Wiring Diagram



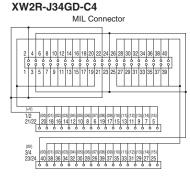


Terminal Block

XW2R-J34GD-C2 MIL Connector Terminal Block



Terminal Block



Terminal Block

Label Contents

XW2R-J34GD-C1, XW2R-J34GD-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-J34GD-C3, XW2R-J34GD-C4

 $\begin{vmatrix} +v \\ m+1 \end{vmatrix}$ 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 ° 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
	22 (24)	XW2R-E34GD-C2
	32 (34)	XW2R-E34GD-C3
		XW2R-E34GD-C4

^{*}Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

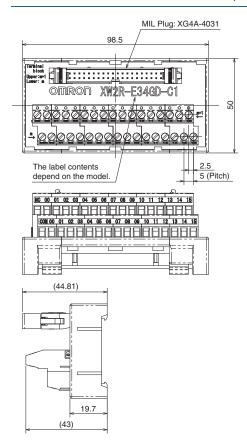
Rated	current	0.5 A/signal, 4 A/common				
Rated voltage		24VDC				
Kaleu	voitage	24700				
Insura	tion resistance	100MΩ min. (at 500VDC)				
Dielectric strength		500VAC for 1 min				
		(leakage current: 1 mA max.)				
		(leakage current. 1 IIIA IIIax.)				
Ambie	nt operating	0 to 55°C				
tempe	rature					
tompo	1					
	Applicable wire	AWG 22 to 16 (ferrules)				
Appli sizes		AWG 26 to 16 (stranded or solid wires)				
cable						
wires	Stripped length	7 mm				
wires	Tightening	0.5 to 0.6 N·m				
	rigintonning	0.0 to 0.0 t iii				

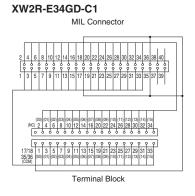
Details	Details on Crimp Terminals											
	cable crimp erminals	Round rod										
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)	8-10 mm									
Rou	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm ²)	Blade t = 0.75 8-10 mm									
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16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

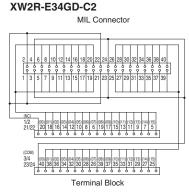
Dimensions

(Unit: mm)

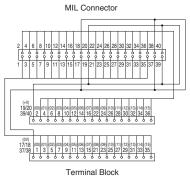
Wiring Diagram

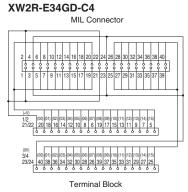






XW2R-E34GD-C3





Label Contents

XW2R-E34GD-C1, XW2R-E34GD-C2

XW2R-E34GD-C3, XW2R-E34GD-C4

Push-in spring

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
*		XW2R-P34GD-C1
All Divines	32 (34)	XW2R-P34GD-C2
	32 (34)	XW2R-P34GD-C3
		XW2R-P34GD-C4

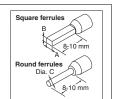
^{*}Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated currer	nt	0.5 A/signal, 4 A/common				
Rated voltag	je	24VDC				
Insuration re	sistance	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 Stripped		AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)				
		AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm				

Details on Crimp Terminals Applicable Ferrules

 Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts.



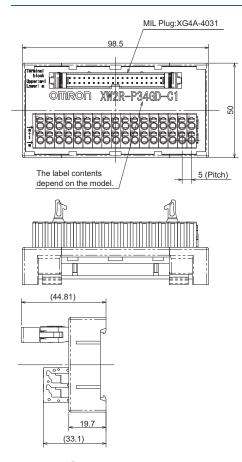
Ferrule Dimensions

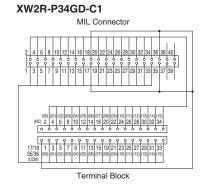
Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be				
	Dimension B (Height)	2 mm max.	4.8 mm ² or less				
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)					
Refer to page 28 for information on Square/Round ferrule and use tool.							

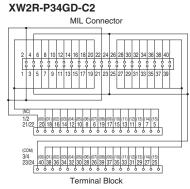
Dimensions

(Unit: mm)

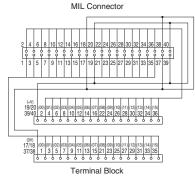
Wiring Diagram



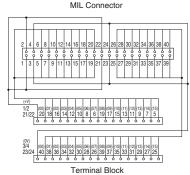




XW2R-P34GD-C3



XW2R-P34GD-C4 MIL Connector

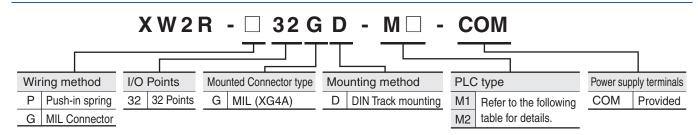


Label Contents

XW2R-P34GD-C3, XW2R-P34GD-C4

m+1	+٧	00	0 1	0 2	03	0 4	05	0 6	07	0 8	09	10	11	12	13	14	15
	0 V	00	0 1	0 2	03	0 4	0 5	06	07	0 8	09	10	11	12	13	14	15

Model List



Models for Connection to Mitsubishi PLCs

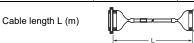
PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs	Connecting cables *				
		LX41C4						
		QX41/QX41-S1/QX41-S2						
		QX71		VIA 107 107 107 107 117 117 117 117 117 117				
	32	RX41C4	XW2R-P32GD-M1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable				
		QH42P (Input)		XVVZZ				
M1		QX41Y41P (Input)						
		RH42C4NT2P (Input)						
		LX42C4						
	64	QX42/QX42-S1	XW2R-P32GD-M1-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or				
	04	QX82/QX82-S1	AWZR-P3ZGD-WT-COW. Z pcs	XW2Z-□□□□BF-L: 2 Cables				
		RX42C4						
		LY41NT1P						
		QY41P						
		QY71						
	32	RY41NT2P	XW2R-P32GD-M2-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or				
	32	RY41PT1P	AWZR-P3ZGD-WZ-COW. 1 pcs	XW2Z-□□□□BF-L: 1 Cable				
		QH42P (Output)						
M2		QX41Y41P (Output)						
		RH42C4NT2P (Output)						
		LY42NT1P						
		QY42P						
	64	QY82P	XW2R-P32GD-M2-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables				
		RY42NT2P		XWZZ-UUUBF-L. 2 Cables				
		RY42PT1P						

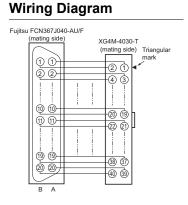
Note: This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

XW2Z-\|\B\B, XW2Z-\|\B\BF-L

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

Annogranos	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	





MIL Connector

Models for Connection to Mitsubishi PLCs

I/O Points	Model	Models that connect to PLCs	Connecting cables*			
	QX41, QX41-S1, QX41-S2, QX71		Connection A XW2Z-□□□B: 1 Cable, or			
32 QH LX4 QX 64	QH42P(Input) , QX41Y41P (Input)	XW2R-G32GD-M1-COM: 1 pcs	XW2Z-□□□□BF-L: 1 Cable			
	LX41C4		Connection B XW2Z-□□□AA: 4 Cables			
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			
32 Q L) Q 64	LX42C4	744514-0020B-W11-00W. 2 pbs	Connection B XW2Z-□□□AA: 8 Cables			

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

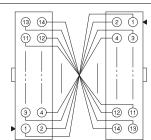
Note: Refer to page 13 for information on the XW2Z-_\Begin{array}{c} \Begin{array}{c} \Beg

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-□□□AA One 14-pin MIL Connector to One 14-pin MIL Connector

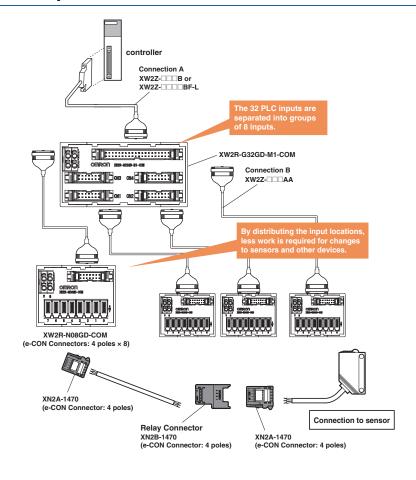
Appearance	Cable length L (m)	With shield
Appearance	Cable leligtii L (III)	Model
	0.5	XW2Z-050AA
	1	XW2Z-100AA
	2	XW2Z-200AA
	5	XW2Z-500AA
	10	XW2Z-010AA
Cable length L (m)		

Wiring Diagram



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

Connection Examples



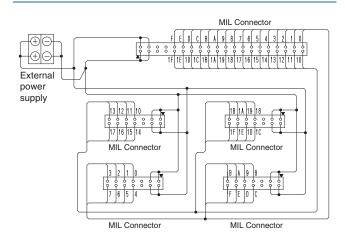
Ordering Information

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

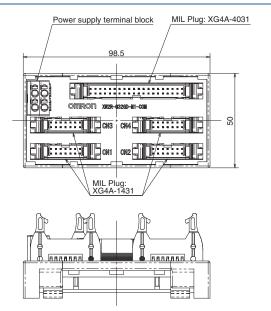
Ratings and Specifications

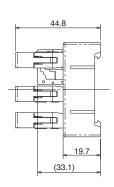
Rated curre	nt	Power supply terminal block: 8A Connectors: 1A					
Rated voltag	ge	24VDC					
Insuration re	esistance	100MΩ min. (at 500VDC)					
Dielectric st	rength	500VAC for 1 min (leakage current: 1 mA max.)					
Ambient operature	•	0 to 55°C					
Applicable wires	Applicable wire sizes	AWG 24 to 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					

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)

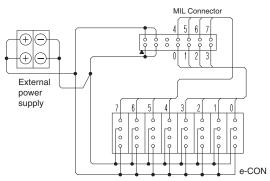
Ratings and Specifications

		•						
Rated curre	ent	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 resistance		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 27.

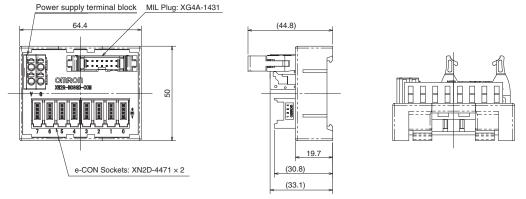
Refer to page 27 for the recommended e-CON Connectors.

Wiring Diagram

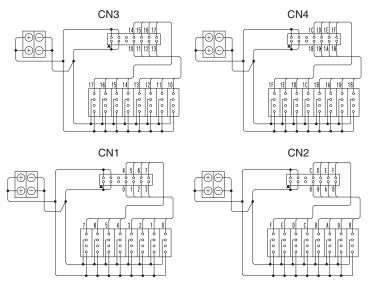


(This connection diagram is for combining with CN1 on the XW2R-G32GD-M1-COM.) $\label{eq:connection} % \begin{center} \begin$

Dimensions (Unit: mm)



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



Push-in spring

Ordering Information

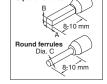
Appearance	I/O Points	Input/Output	Model
	22 paints	Input	XW2R-P32GD-M1-COM
	32 points	Output	XW2R-P32GD-M2-COM

Ratings and Specifications

Rated	current	1 A/signal, 8 A/common					
	voltage	24VDC					
Insurat	tion resistance	100MΩ min. (at 500VDC)					
Dielect	tric strength	500VAC for 1 min (leakage current: 1 mA max.)					
Ambie tempe	nt operating rature	0 to 55°C					
Appli cable wire sizes		AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)					
wires	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm					

Details on Crimp Terminals Applicable Ferrules

 Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts.



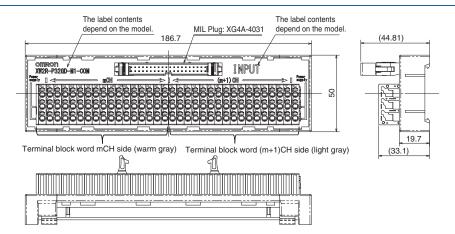
(Unit: mm)

• Ferrule Dimensions

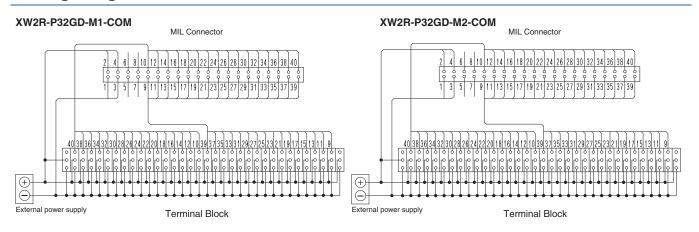
forrules	The cross-sectional area after crimping must		
	Dimension B (Height)	2 mm max.	be 4.8 mm ² or less
		2 mm dia. ma	x. (after crimping)

Refer to page 28 for information on Square/Round ferrule and use tool.

Dimensions



Wiring Diagram

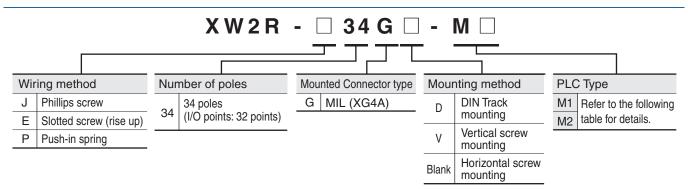


Label Contents

XW2R-P32GD-M1-COM, XW2R-P32GD-M2-COM

		mCH									(m+1)CH																							
Row 1	NC	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	NC
Row 2	٧	٧	V	V	٧	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	٧	V	V
Row 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

Model List



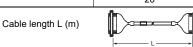
Models for Connection to Mitsubishi PLCs

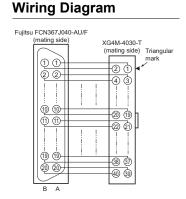
PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs *1	Connecting cables *2		
		LX41C4				
		QX41/QX41-S1/QX41-S2				
		QX71		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	32	RX41C4	XW2R-□34GD-M1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□BF-L: 1 Cable		
		QH42P (Input)		XWZZ-BBB -E. T Gable		
M1		QX41Y41P (Input)				
		RH42C4NT2P (Input)				
		LX42C4	2-S1 XW2R-□34GD-M1: 2 ncs			
	64	QX42/QX42-S1	VM2D = 24CD M4: 2 mag	XW2Z-□□□B: 2 Cables, or		
	04	QX82/QX82-S1	XW2R-U34GD-W1: 2 pcs	XW2Z-□□□□BF-L: 2 Cables		
		RX42C4				
		LY41NT1P				
		QY41P		XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable		
		QY71				
	32	RY41NT2P	XW2R-□34GD-M2: 1 pcs			
	32	RY41PT1P	— XW2R-□34GD-IW2. 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				
		RY42PT1P				

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

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

Annogranos	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	





^{*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 (34)	XW2R-J34GD-M2

^{*}Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

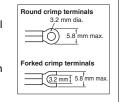
Rated	current	0.5 A/signal, 2 A/common
Rated	voltage	24VDC
Insura	tion resistance	100MΩ min. (at 500VDC)
Dielect	tric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambie tempe	nt operating rature	0 to 55°C
Annli	Applicable	AWG 22 to 16 (round or forked crimp terminals)
Appli cable	wire sizes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

Details on Crimp Terminals Wiring Terminal Blocks

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

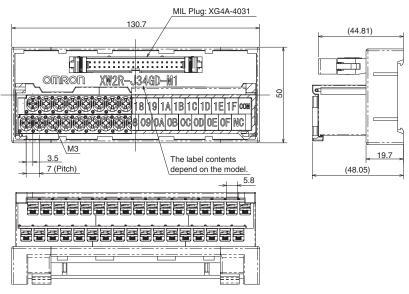
Terminal Screw Tightening Torque

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



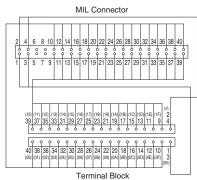
Applicable crimp ter	minals	Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm ²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm ²)

Dimensions (Unit: mm)



Wiring Diagram

XW2R-J34GD-M2



Label Contents

XW2R-J34GD-M1

1011112131415161718191A1B1C1D1E1Fcom

XW2R-J34GD-M2

Slotted screw (rise up)

Ordering Information

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

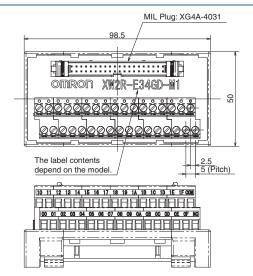
^{*} Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated cu	urrent	0.5 A/signal, 2 A/common				
Rated vo	oltage	24VDC				
Insuration	on resistance	100MΩ min. (at 500VDC)				
Diologtri	a atranath	500VAC for 1 min				
Dielectri	c strength	(leakage current: 1 mA max.)				
Ambient operating		0 to 55°C				
tempera	ture	0 10 33 0				
A II .	Applicable wire	AWG 22 to 16 (ferrules)				
Applic able	sizes	AWG 26 to 16 (stranded or solid wires)				
wires	Stripped length	7 mm				
***************************************	Tightening	0.5 to 0.6 N·m				

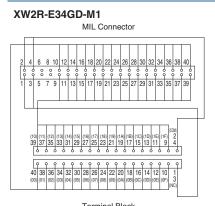
Details on Crimp Terminals									
	cable crimp Applicable wires		Round rod						
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)	8-10 mm						
Rou	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm ²)	Blade t = 0.75						
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm ²)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

Dimensions (Unit: mm)





Wiring Diagram



MIL Connector 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 1 3 5 7 9 3 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39

Terminal Block

Label Contents

XW2R-E34GD-M1

1 0 1 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 A 1 B 1 C 1 D 1 E 1 F COM

0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 A 0 B 0 C 0 D 0 E 0 F N C

XW2R-E34GD-M2

XW2R-E34GD-M2

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

Push-in spring

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-P34GD-M1
	32 (34)	XW2R-P34GD-M2

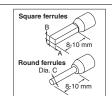
^{*}Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Datad arres	-m4	IO E Alaignal 2 Alaamman				
Rated current		0.5 A/signal, 2 A/common				
Rated volta	ge	24VDC				
Insuration r	esistance	100MΩ min. (at 500VDC)				
Dielectric s	tranath	500VAC for 1 min				
Dielectric S	uengui	(leakage current: 1 mA max.)				
Ambient operating temperature		0 to 55°C				
		AWG 24 to 14 (ferrules)				
	Applicable	AWG 28 to 14 (stranded or solid)				
Applicable	wire sizes	(Outer diameter of insulation must be 4				
wires		mm max)				
	Stripped	AWG28-16: 8 to 10 mm				
	length	AWG14: 9 to 10 mm				

Details on Crimp Terminals Applicable Ferrules

 Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts.

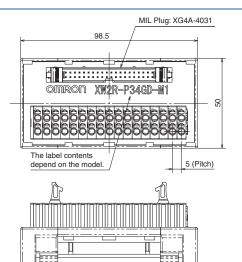


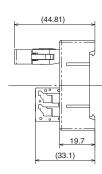
(Unit: mm)

Ferrule Dimensions

Square	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be				
ferrules	Dimension B (Height)	2 mm max.	4.8 mm ² or less				
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)					
Refer to page 28 for information on Square/Round ferrule and use tool.							

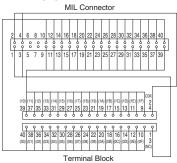
Dimensions



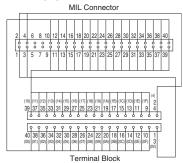


Wiring Diagram

XW2R-P34GD-M1



XW2R-P34GD-M2



Label Contents

XW2R-P34GD-M1

10	11	12	13	14	15	16	17	18	19	1 A	1 B	1 C	1 D	1 E	1 F	COV
0 0	0 1	02	03	0 4	0 5	06	07	0 8	09	0 A	0 B	0 C	0 D	0 E	0 F	N C

XW2R-P34GD-M2

10	11	12	13	14	15	16	17	18	19	1 A	1 B	1 C	1 D	1 E	1 F	+٧
00	0 1	0 2	03	0 4	0 5	06	0 7	0.8	09	0 A	0 B	0 C	0 D	0 E	0 F	0 V

Models for Keyence PLCs with power supply terminals

Model List

XW2R - P 32GD -K 1 COM Wiring method I/O Points Mounted Connector type Mounting method **PLC Type** Power supply terminals D DIN Track mounting P Push-in spring 32 Points MIL (XG4A) COM Provided Refer to the following K1 table for details.

Models for Keyence PLCs

I/O	I/O Points	Unit	Models for Keyence PLCs	Connecting cables*	
lanut	32	Input Unit	KV-C32XA, KV-C32XC	XW2R-P32GD-K1-COM:1 pcs	XW2Z-□□□EE: 1 Cable, or XW2Z-□□□□EE-L: 1 Cable
Input	64 Model	Model	KV-C64XA, KV-C64XB, KV-C64XC	XW2R-P32GD-K1-COM:2 pcs	XW2Z-DDEE: 2 Cables, or XW2Z-DDEE-L: 2 Cables

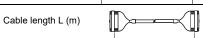
* \colon cable length.

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.

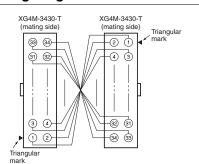
XW2Z-

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

Appearance	Cable length L (m)	With shield	Without shield
Appearance	Cable leligtii L (III)	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



Wiring Diagram



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

Models for Keyence PLCs with power supply terminals

Push-in spring

Ordering Information

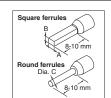
Appearance	I/O Points	Model
	32	XW2R-P32GD-K1-COM

Ratings and Specifications

Rated curre	ent	1 A/signal, 8 A/common						
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 wires	Applicable wire sizes	AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)						
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm						

Details on Crimp Terminals Applicable Ferrules

 Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts.

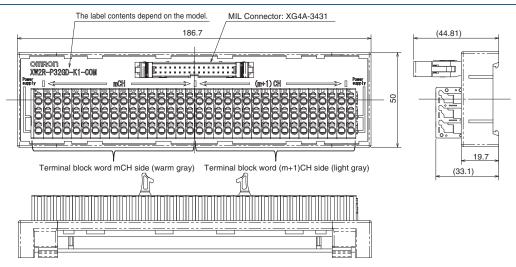


Ferrule Dimensions

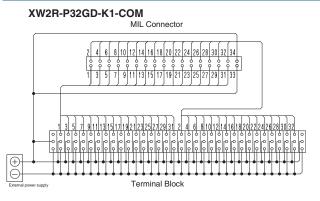
Square ferrules	Dimension A (Width) Dimension B	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm² or less				
Round ferrules	(Height) Dimension C (Diameter)	2 mm dia. max.	(after crimping)				

Refer to page 28 for information on Square/Round ferrule and use tool.

Dimensions (Unit: mm)



Wiring Diagram



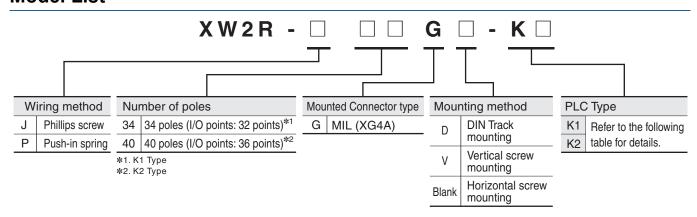
Label Contents

X	ν	v	2	R	-F	3	2	G	ח	-K	1	-C	O	M
^	w		_		_	·	_	v	$\boldsymbol{\smile}$			-0	$\mathbf{\sim}$	IVI

	mCH								(m+1)CH																								
NC	000	001	002	003	004	005	006	007	800	009	010	011	012	013	014	015	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	NC
V	V	V	V	V	V	V	V	V	V	V	٧	V	٧	V	V	V	٧	٧	V	٧	٧	٧	٧	٧	V	٧	V	٧	٧	/	٧	V	V
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	O	G	G	G

Models for Keyence PLCs without power supply terminals

Model List



Models for Keyence PLCs

I/O	I/O Points	Unit	Models for Keyence PLCs	Models that connect to PLCs *1	Connecting cables *2		
Input			KV-C32XA, KV-C32XC				
Output	32		KV-C32TA, KV-C32TC, KV-C32TCP	XW2R-□34GD-K1: 1 pcs	XW2Z-□□□EE: 1 Cable, or		
Output	32	I/O Unit	KV-C32TD	XW211-□340D-1(1. 1 pcs	XW2Z-□□□□EE-L: 1 Cable		
I/O		Model	KV-C32XTD				
Input	64		KV-C64XA, KV-C64XB, KV-C64XC	XW2R-□34GD-K1: 2 pcs	XW2Z-DDEE: 2 Cables, or		
Output	04		KV-C64TA, KV-C64TC, KV-C64TD, KV-C64TCP	λW2R-Δ34GD-R1. 2 pcs	XW2Z-□□□□EE-L: 2 Cables		
		CPU Unit Model	KV-1000, KV-3000, KV-5000, KV-5500	XW2R-□40GD-K2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable		

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

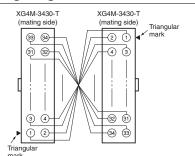
XW2Z-\|\|\|\|\|EE, XW2Z-\|\|\|\|\|EE-L

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

Annogrango	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)						



Wiring Diagram



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

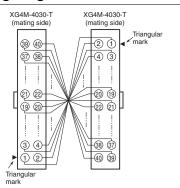
XW2Z-UUK, XW2Z-UUUFF-L

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

Appearance	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.

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

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. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

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)

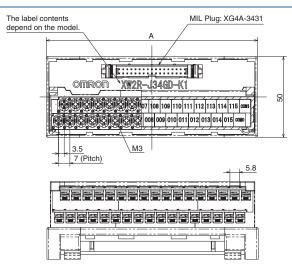
Terminal Screw Tightening Torque

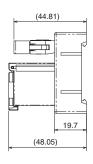
 Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

3.2 mm dia.
5.8 mm max.
Forked crimp terminals
3.2 mm 5.8 mm max.

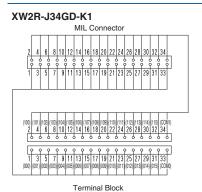
Applicable crimp ter	minals	Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm ²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm ²)

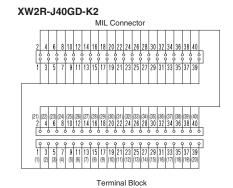
Dimensions (Unit: mm)





Wiring Diagram





Label Contents

XW2R-J34GD-K1

		1	00	1	0	1	1 (0 2	1	0	3	1 (4	1	0 !	5 1	0	6	1 (7	1	0	8	1 (9	1	10	1	1	1	11	2	1	13	3	11	4	1	15	001	11
ĺ	0 0	0	0	0	1) (2	0	03	3	0 (4	0	0 5	0	0 6	6 (0 (7	0	0 8	3 (0 (9	0 .	10	0	11	0	1	2	0 .	13	0	1	4	0 .	15	CO	MO	

XW2R-J40GD-K2

	2	1	2	2	23	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	40	
ŀ		2		3	1	4	5	6	7	8	9)	10	1	1	1	2	13	1	4	1	5	1	6	1	7	1	8	1 9	2	0]

Models for Keyence PLCs without power supply terminals

Push-in spring

Ordering Information

Appearance	I/O Points (Number of poles)	Model *	Dimension A (mm)
	32 (34)	XW2R-P34GD-K1	98.5
	36 (40)	XW2R-P40GD-K2	113.5

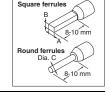
^{*}Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated	current	1A					
Rated v	/oltage	AC/ DC125V					
Insurati	on resistance	100MΩ min. (at 500VDC)					
Dielect	ric strength	500VAC for 1 min (leakage current: 1 mA max.)					
Ambier temper	nt operating ature	0 to 55°C					
Appli cable	Applicable wire sizes	AWG 24 to 14 (ferrules), AWG 28 to 14 (stranded or solid wires) (Outer diameter of insulation must be 4 mm max)					
wires	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm					

Details on Crimp Terminals Applicable Ferrules

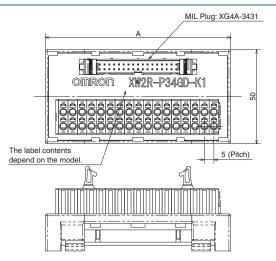
 Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts.

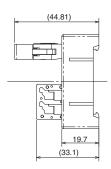


• Ferrule Dimensions

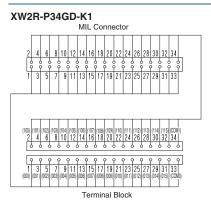
Square	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must							
ferrules	Dimension B (Height)	2 mm max.	be 4.8 mm ² or less							
Round ferrules Dimension C (Diameter) 2 mm dia. max. (after crimping)										
Refer to page 28 for information on Square/Round ferrule and use tool.										

Dimensions (Unit: mm)

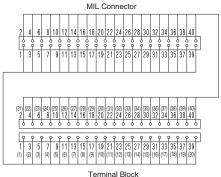




Wiring Diagram



XW2R-P40GD-K2



Label Contents

XW2R-P34GD-K1

100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	COM1
000	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	COMO

XW2R-P40GD-K2

2 1		2 2	2 3	2 4	2 5	2 6	27	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	I	2	3	4	5	6	7	8	9	10	1	1	12	13	1 4	15	16	17	18	19	20

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

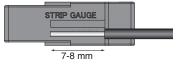
Rated current	3 A/pin (with AWG20 wires), 2 A/pin (with AWG22 wires), 1 A/pin (with AWG24 wires), 0.5 A/pin (with AWG26 or AWG28 wires)		
Rated voltage	32 VDC		
Contact resistance	$30 \text{ m}\Omega$ max. (at 20 mV, 100 mA max.)		
Insuration resistance	10 ³ MΩ min. (at 500VDC)		
Dielectric strength	1,000 VAC for 60 sec (leakage current: 1 mA max.)		
Insertion durability	50 times		
Ambient operating temperature	-30 to 75°C *		
Applicable wires	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

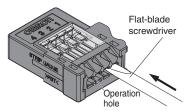
Wire Preparation

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.

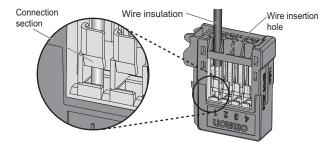


Connection Procedure

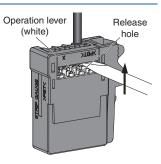
1. Press a flat-blade screwdriver into the operation hole until the operation lever locks into place.



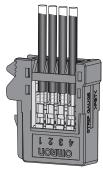
2. Insert the wire all the way into the wire insertion hole. Confirm that the insulation on the wire also enters the wire insertion hole and that the end of the wire has passed through the connection section.



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

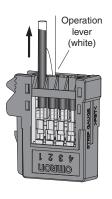


- 4. Finally, check the following items.
- Make sure the operation lever has been
- Check the items given in step 2 again. (Pull lightly on the wire to see if it is held firmly in place.)



Disconnection Procedure

- 1. Press in the operation level, confirm that the operation lever is locked into place, and then pull out the wire.
- 2. 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

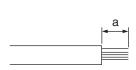
- Do not damage the cores when stripping the insulation from them.
- Always twist stranded wires together before connecting them.
- Do not presolder wires. It may not be possible to connect them or remove them.

XW2R-P□□ type (Square/Round ferrule)

Type of terminal	Manufacturer	Size	Recommend ferrule	Recommend crimp tool
	Phoenix Contact	AWG24	AI0.25-8□□	- CRIMFOX6
		AWG22	AI0.34-8TQ	
		AWG20	AI0.5-10WH AI0.5-8WH	
		AWG18	AI0.75-10GY AI0.75-8GY	
		AWG16	AI1.5-10BK	
Square ferrule		AWG14	AI2.5-8BU	
	Weidmuller	AWG24	H0.25/12	PZ6 roto
		AWG22	H0.34/12	
		AWG20	H0.5/14	
		AWG18	H0.75/14	
		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)

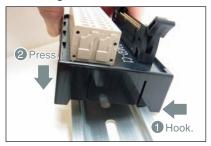
When an electric wire is connected directly (J,E,P type)



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	

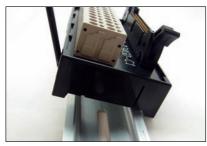
Mounting Units to and Removing Units from DIN Track

Mounting Procedure



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

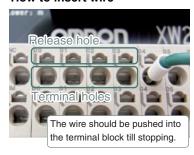
Removal Procedure



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

Connecting Spring cramp Terminals

Using Ferrules How to insert wire



How to release wire

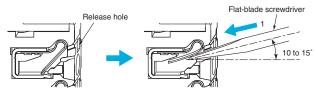


Using Stripped Wires Inserting and Removing Wires

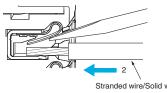


Inserting Wires

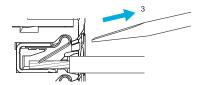
 Press the a flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



2. Leave the flat-blade screwdriver pressed into the release hole and insert the stranded wire or the solid wire into the terminal hole. Insert the stranded wire or the solid wire until the stripped portion is no longer visible to prevent shorting.

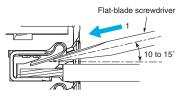


3. Remove the flat-blade screwdriver from the release hole.

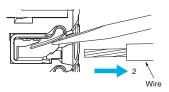


Removing Wires

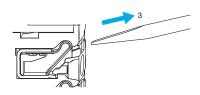
 Press the flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



Leave the flat-blade screwdriver pressed into the release hole and pull out the wire.

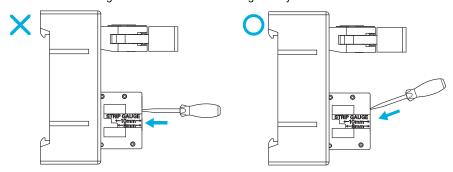


3. Remove the flat-blade screwdriver from the release hole.

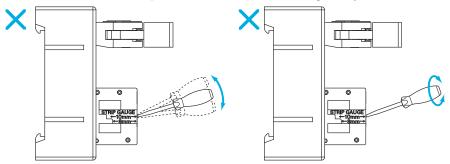


Precautions for Safe Use

• Do not press the flat-blade screwdriver straight into the release hole. Doing so may break the terminal block.



- When you insert a flat-blade screwdriver into a release hole, press it down with a force of 30 N max. Applying excessive force may damage the terminal block.
- Do not tilt or twist the flat-blade screwdriver while it is pressed into the release hole. Doing so may break the terminal block.



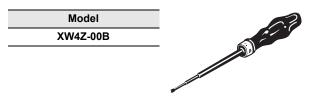
- Make sure that all wiring is correct.
- Do not bend the cable forcibly. Doing so may sever the cable.

Use tool

• Select a use tool from following table.

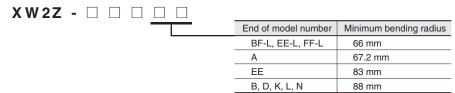
Model	Use tool	Specialized tool and dimension
XW2R-J□□	Phillips screwdriver	JIS#2
XW2R-E□□	Flat-blade screwdriver	Model XW4Z-00B
XW2R-P□□	riat-blade sciewdiivei	Head of screwdriver Is 0.4 x 2.5mm max.

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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