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Connector-Terminal Block Conversion Units for PLCs

XW2R

CSM_XW2R-C_M_K_DS_E_5_4

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 *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.

Models for Connection to OMRON PLCs with power supply terminals

Model List

XW2R - □□□G□ - C□ - COM

Wiring method	
P	Push-in spring
N	e-CON Type

I/O Points	
16	16 Points
32	32 Points

Mounted Connector type	
G	MIL (XG4A)

Mounting method	
D	DIN Track mounting
V	Vertical screw mounting
Blank	Horizontal screw mounting

PLC type	
C1	Refer to the following table for 16-pole models and to page 3 for 32-pole models.
C2	
C3	
C4	

Power supply terminals	
COM	Provided

Models for OMRON PLCs

Models with 16 Poles

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs	Connecting cables *
Input	32	CJ1W-ID231	XW2R-P16GD-C1-COM: 2 pcs XW2R-N16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
		CS1W-ID231		
	64	CJ1W-ID261	XW2R-P16GD-C1-COM: 4 pcs XW2R-N16GD-C1-COM: 4 pcs	XW2Z-□□□D: 2 Cables
		CS1W-ID261		
I/O	16	NX-MD6121-6 (inputs)	XW2R-P16GD-C1-COM: 1 pcs XW2R-N16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
		CJ1W-MD231 (inputs)	XW2R-P16GD-C1-COM: 1 pcs XW2R-N16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
	32	CJ1W-MD261 (inputs)	XW2R-P16GD-C1-COM: 2 pcs XW2R-N16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
		CS1W-MD261 (inputs)		
		CS1W-MD262 (inputs)		
		CS1W-MD561 (inputs)		
Input	32	CJ1W-ID232	XW2R-P16GD-C1-COM: 2 pcs XW2R-N16GD-C1-COM: 2 pcs	XW2Z-□□□N: 1 Cable
		CJ1W-ID233		
I/O		CJ1W-MD263 (inputs)		
		CJ1W-MD563 (inputs)		
Input	64	CJ1W-ID262	XW2R-P16GD-C1-COM: 4 pcs XW2R-N16GD-C1-COM: 4 pcs	XW2Z-□□□N: 2 Cables
Output	16	NX-OD5121-5	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-□□□X: 1 Cable
		NX-OD5256-5		
	32	CJ1W-OD231	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□L: 1 Cable
		CS1W-OD231		
		CS1W-OD232		
		CJ1W-OD232	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□N: 1 Cables
		CJ1W-OD233		
		CJ1W-OD234		
	64	CJ1W-OD261	XW2R-P16GD-C3-COM: 4 pcs	XW2Z-□□□L: 2 Cables
		CS1W-OD261		
		CJ1W-OD262	XW2R-P16GD-C3-COM : 4 pcs	XW2Z-□□□N: 2 Cables
		CJ1W-OD263		
I/O	16	NX-MD6121-6 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-□□□A: 1 Cable
		CJ1W-MD231 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-□□□A: 1 Cable
	32	CJ1W-MD261 (outputs)	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□L: 1 Cable
		CS1W-MD261 (outputs)		
		CS1W-MD262 (outputs)		
		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 Connection to OMRON PLCs with power supply terminals

Models for OMRON PLCs

Models with 32 Poles

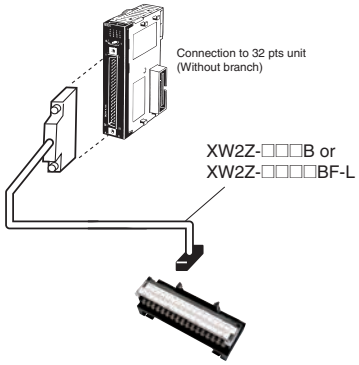
I/O	I/O Points	I/O Unit Model	Models that connect to PLCs	Connecting cables ∗
Input	32	NX-ID6142-5	XW2R-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		NX-ID6142-6	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CJ1W-ID231	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-ID231		
	64	CJ1W-ID261	XW2R-P32GD-C1-COM: 2 pcs XW2R-N32GD-C1-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-ID261		
I/O	32	CJ1W-MD261 (inputs)	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD261 (inputs)		
		CS1W-MD262 (inputs)		
		CS1W-MD561 (inputs)		
Input	32	CJ1W-ID232	XW2R-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-ID233		
	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 XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-MD563 (inputs)		
Output	32	NX-OD6121-5	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		NX-OD6256-5		
		NX-OD6121-6	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CJ1W-OD231	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-OD231		
		CS1W-OD232		
	64	CJ1W-OD261	XW2R-P32GD-C3-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-OD261		
		CS1W-OD262		
I/O	32	CJ1W-MD261 (outputs)	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD261 (outputs)		
		CS1W-MD262 (outputs)		
		CS1W-MD561 (outputs)		
Output	32	CJ1W-OD232	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-OD233		
		CJ1W-OD234		
	64	CJ1W-OD262	XW2R-P32GD-C4-COM: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
		CJ1W-OD263		
I/O	32	CJ1W-MD263 (outputs)	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-MD563 (outputs)		

∗□□□□ is replaced by the cable length. Refer to page 4.

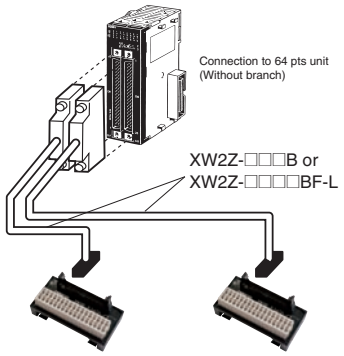
Note: Connection is not possible to all OMRON PLC Units.
This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

Connection Examples

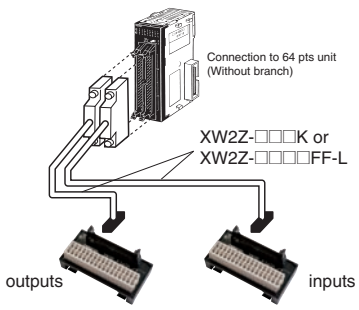
32-point Input Unit or Output Unit
CJ1W-ID231 32-point
CJ1W-OD231 32-point



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

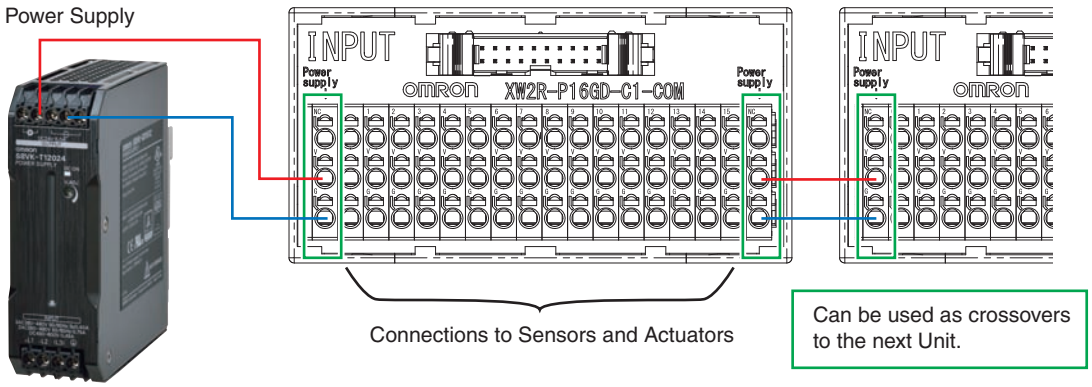


64-point I/O Unit
CJ1W-MD563 IN 32 Points,
OUT 32 Points



Models for Connection to OMRON PLCs with power supply terminals

Application Example

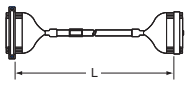


PLC Connecting Cables

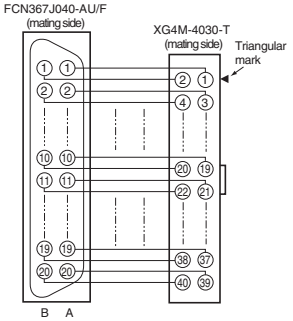
XW2Z-□□□B, XW2Z-□□□□BF-L
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

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

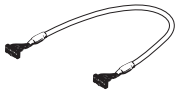
Cable length L (m)



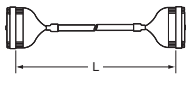
Wiring Diagram



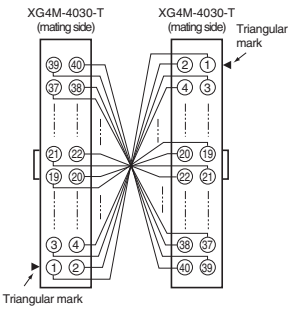
XW2Z-□□□K, XW2Z-□□□□FF-L
Connectors: One 40-pin Connector to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		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 Connection to OMRON PLCs with power supply terminals

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
		Output	**XW2R-P16GD-C3-COM**	
	32	Input	**XW2R-P32GD-C1-COM**	186.7
			XW2R-P32GD-C2-COM	
		Output	**XW2R-P32GD-C3-COM**	
			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.

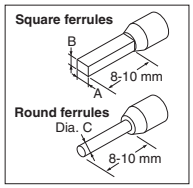
Ratings and Specifications

Rated current		16 Points: 1A/signal, 4A/common 32 Points: 1A/signal, 8A/common
Rated voltage		24VDC
Insuration resistance		100MΩ min. (at 500VDC)
Dielectric strength		500VAC for 1 ferrulemin (leakage current: 1 mA max.)
Ambient operating 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.



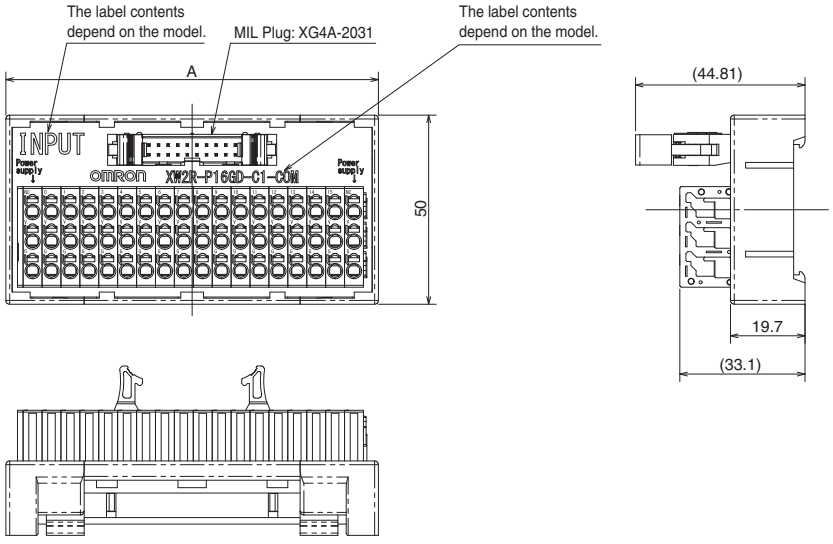
- Ferrule Dimensions

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

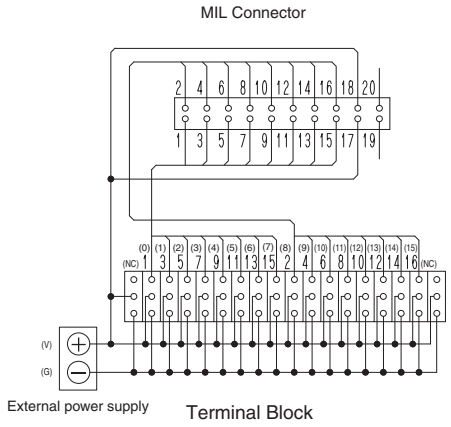
(Unit: mm)



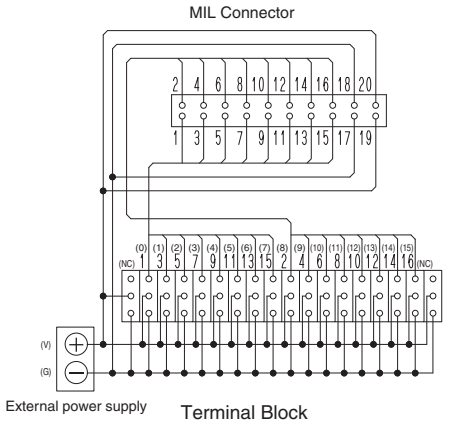
Models for Connection to OMRON PLCs with power supply terminals

Wiring Diagram

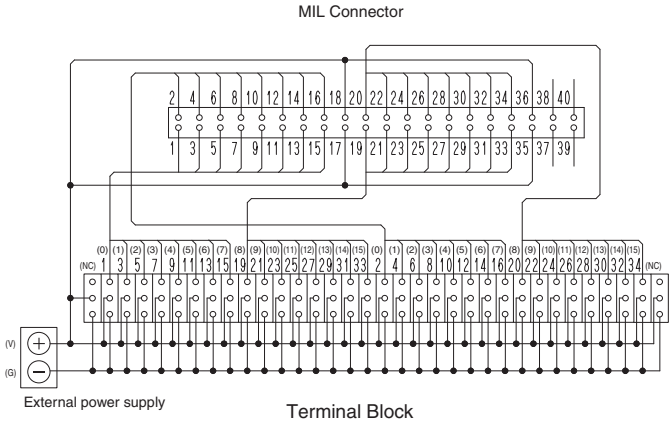
XW2R-P16GD-C1-COM



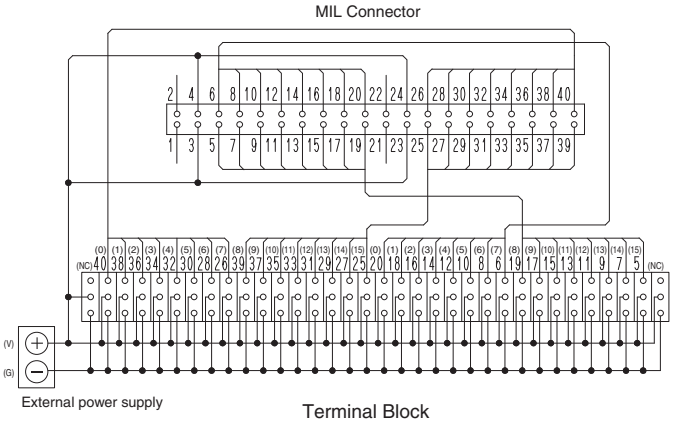
XW2R-P16GD-C3-COM



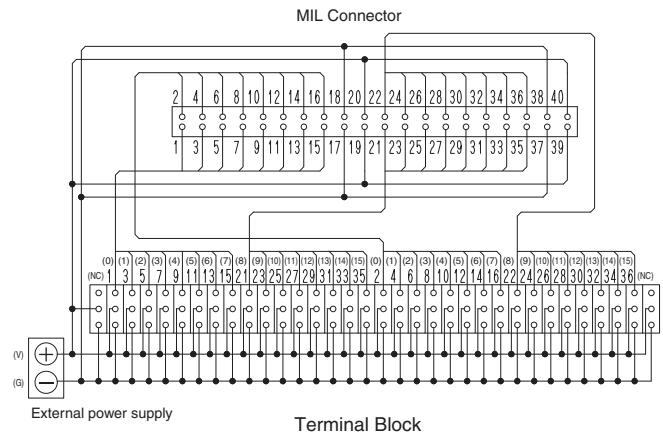
XW2R-P32GD-C1-COM



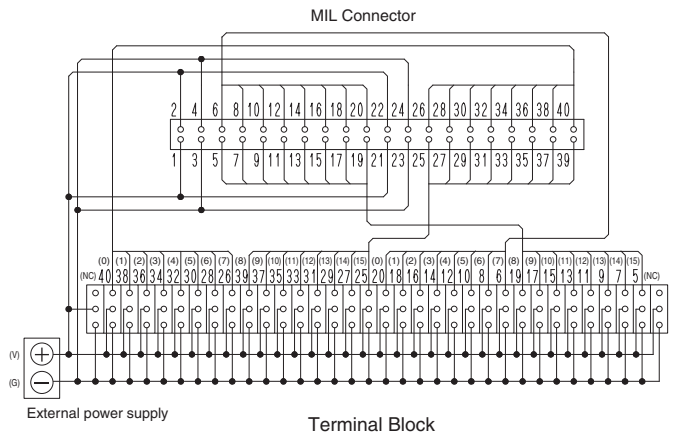
XW2R-P32GD-C2-COM



XW2R-P32GD-C3-COM



XW2R-P32GD-C4-COM



Label Contents

XW2R-P16GD-C1-COM
XW2R-P16GD-C3-COM

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

Models for Connection to OMRON PLCs with power supply terminals

e-CON Type

Ordering Information

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

Ratings and Specifications

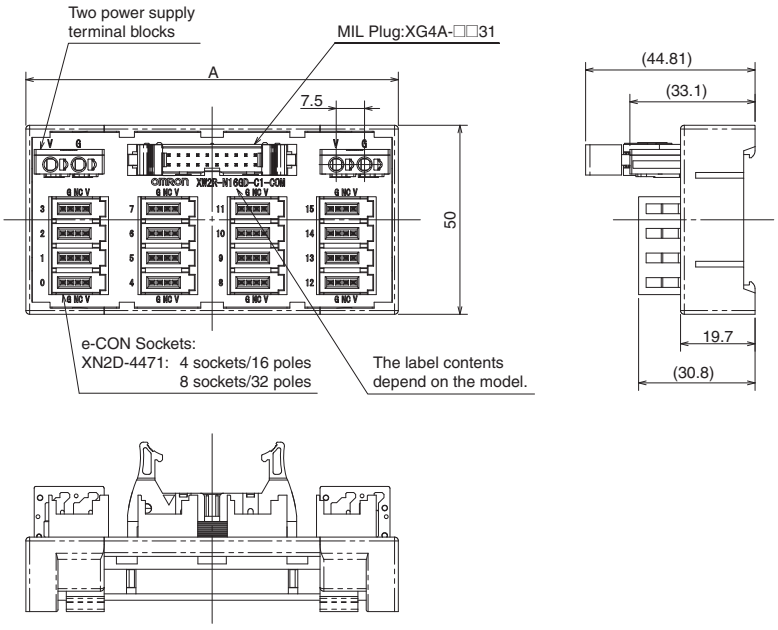
Rated current		Power supply terminal block: 4 A/16 poles or 8 A/32 poles
		Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)
Rated voltage		24VDC
Insuration resistance		100MΩ min. (at 500VDC)
Dielectric strength		500VAC for 1 min (leakage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

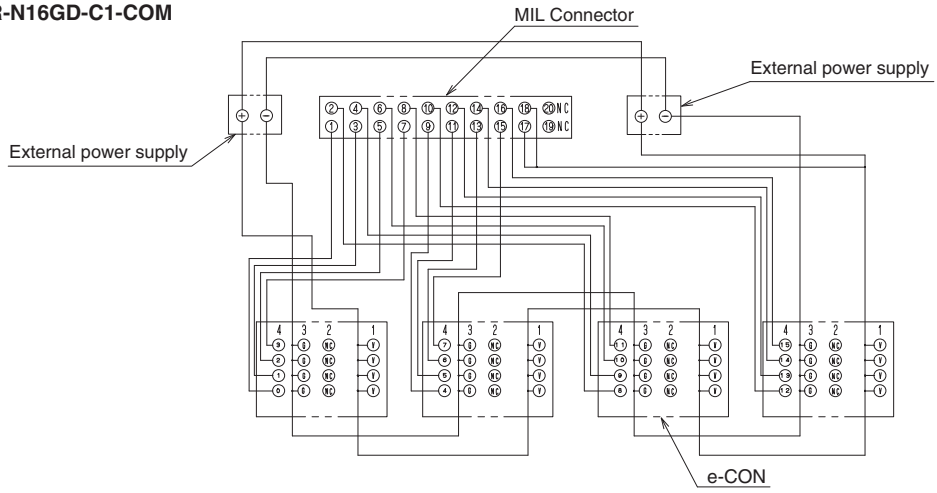
(Unit: mm)



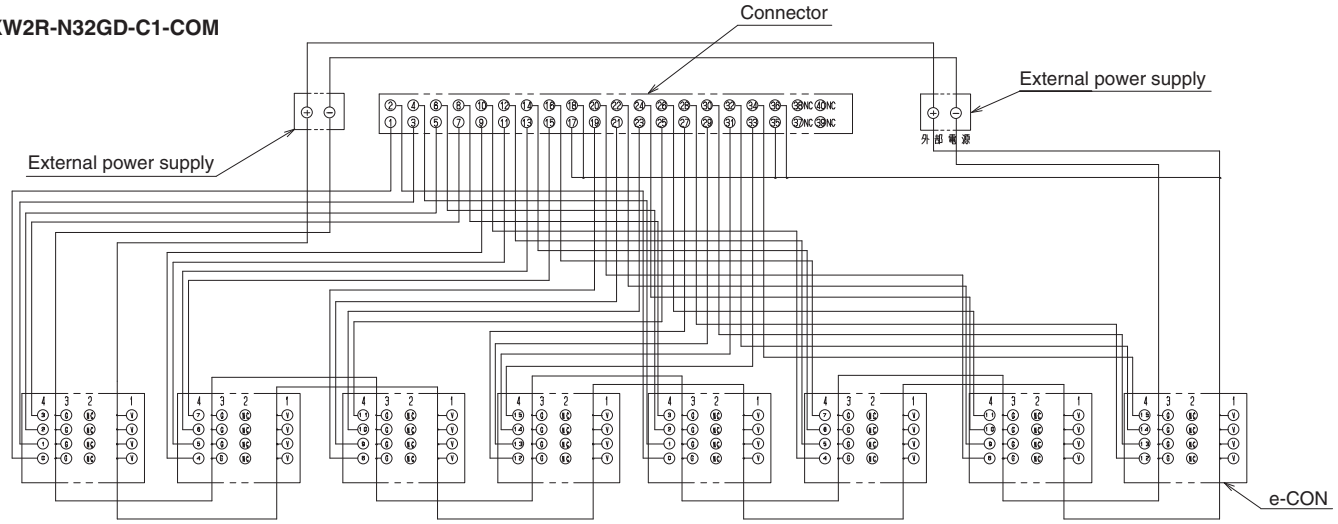
Models for Connection to OMRON PLCs with power supply terminals

Wiring Diagram

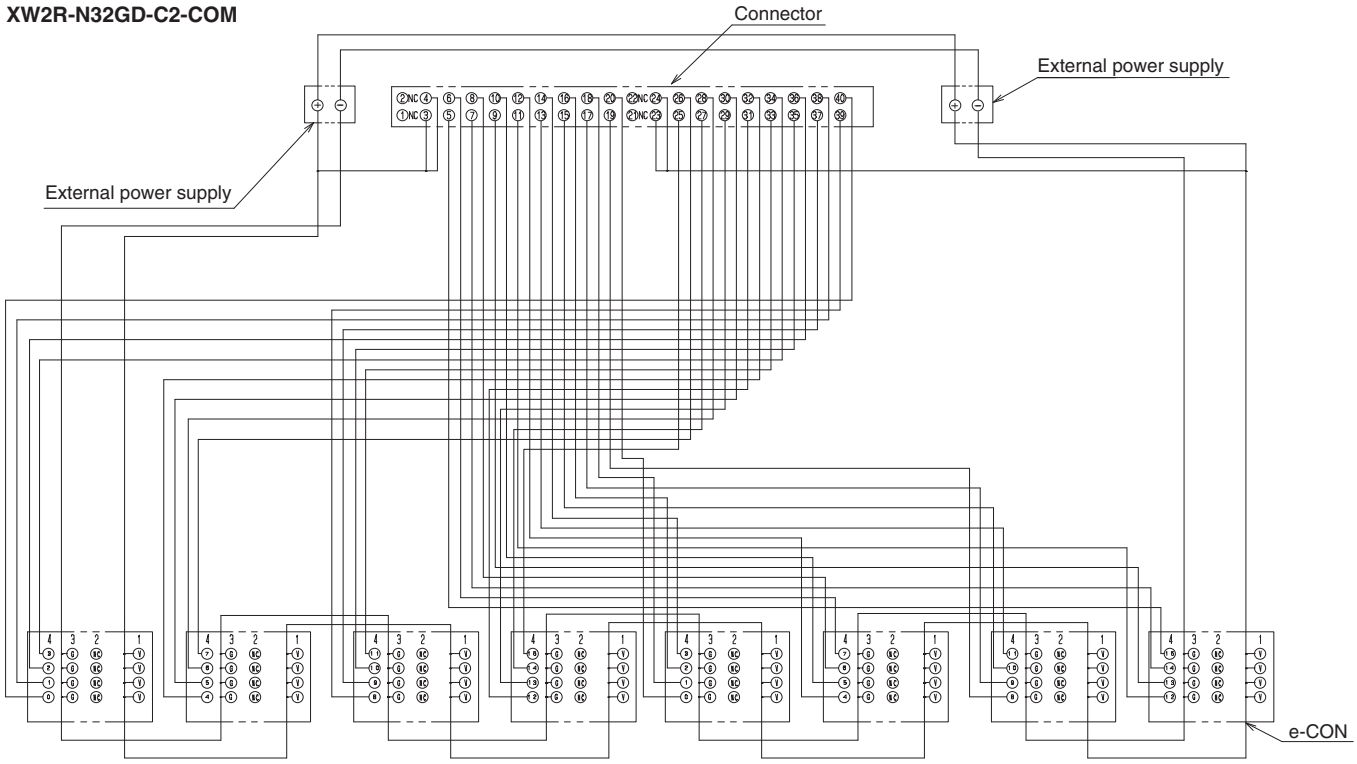
XW2R-N16GD-C1-COM



XW2R-N32GD-C1-COM



XW2R-N32GD-C2-COM



Models for Connection to OMRON PLCs without power supply terminals

Model List

XW2R - □ 34G □ - C □

Wiring method	
J	Phillips screw
E	Slotted screw (rise up)
P	Push-in spring

Number of poles	
34	34 poles (I/O points: 32 points)

Mounted Connector type	
G	MIL (XG4A)

Mounting method	
D	DIN Track mounting
V	Vertical screw mounting
Blank	Horizontal screw mounting

PLC type	
C1	Refer to the following table for details.
C2	
C3	
C4	

Models for OMRON PLCs

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs ∗1	Connecting cables ∗2
Input	32	NX-ID6142-6	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CJ1W-ID231	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-ID231		
	64	CJ1W-ID261	XW2R-□34GD-C1: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-ID261		
I/O	32	CJ1W-MD261 (inputs)	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD261 (inputs)		
		CS1W-MD262 (inputs)		
		CS1W-MD561 (inputs)		
Input	32	NX-ID6142-5	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-ID232	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-ID233		
	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 XW2Z-□□□□FF-L: 1 Cable
		CJ1W-MD563 (inputs)		
Output	32	NX-OD6121-6	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CJ1W-OD231	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-OD231		
		CS1W-OD232		
	64	CJ1W-OD261	XW2R-□34GD-C3: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-OD261		
		CS1W-OD262		
I/O	32	CJ1W-MD261 (outputs)	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD261 (outputs)		
		CS1W-MD262 (outputs)		
		CS1W-MD561 (outputs)		
Output	32	NX-OD6121-5	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		NX-OD6256-5		
		CJ1W-OD232	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-OD233		
		CJ1W-OD234		
	64	CJ1W-OD262	XW2R-□34GD-C4: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
		CJ1W-OD263		
I/O	32	CJ1W-MD263 (outputs)	XW2R-□34GD-C4: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-MD563 (outputs)		

∗1 Replace the box (□) 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.

Models for Connection to OMRON PLCs without power supply terminals

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-J34GD-C1
		XW2R-J34GD-C2
		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 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
Applicable wires	**Applicable wire sizes**	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)
	Stripped length	9 mm
	Tightening	0.5 N·m

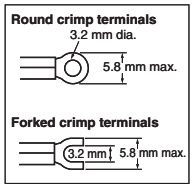
Details on Crimp Terminals

Wiring Terminal Blocks

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

Terminal Screw Tightening Torque

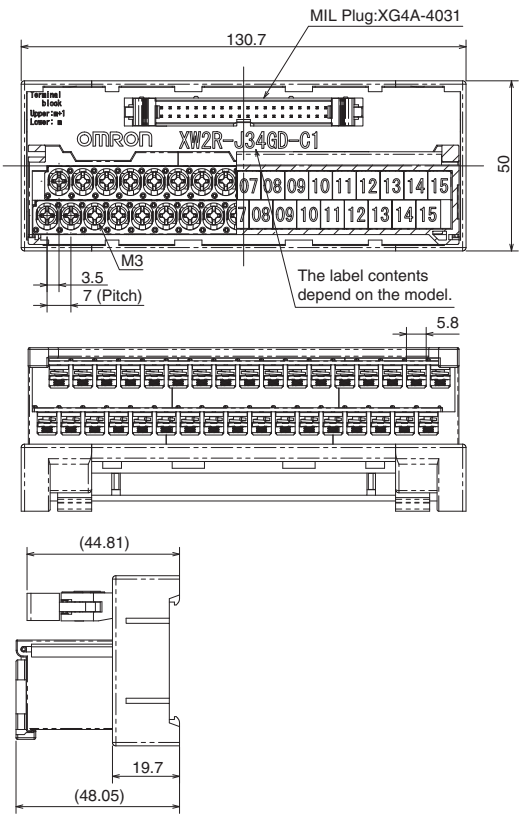
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



Applicable crimp terminals		Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm²)

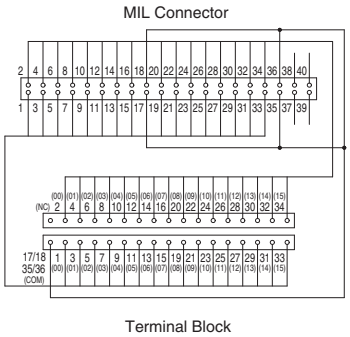
Dimensions

(Unit: mm)

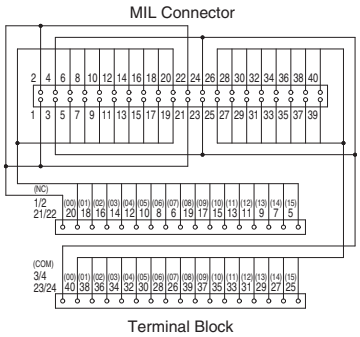


Wiring Diagram

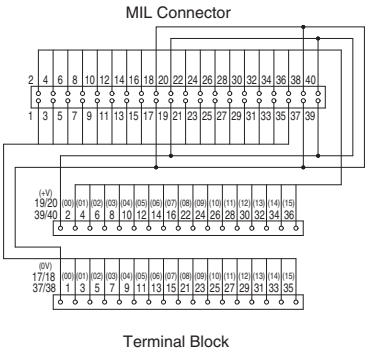
XW2R-J34GD-C1



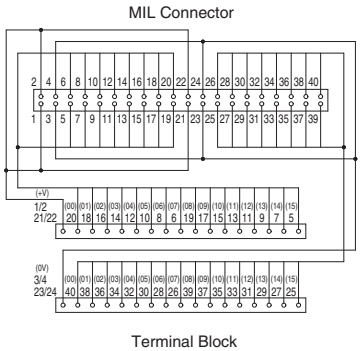
XW2R-J34GD-C2



XW2R-J34GD-C3

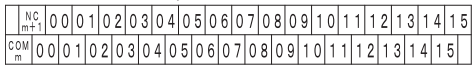


XW2R-J34GD-C4

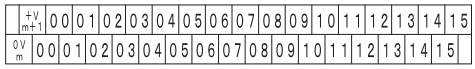


Label Contents

XW2R-J34GD-C1, XW2R-J34GD-C2



XW2R-J34GD-C3, XW2R-J34GD-C4



Models for Connection to OMRON PLCs without power supply terminals

Slotted screw (rise up)

Ordering Information

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

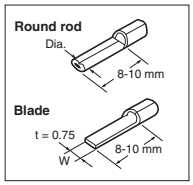
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated current		0.5 A/signal, 4 A/common
Rated voltage		24VDC
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 wires	**Applicable wire sizes**	AWG 22 to 16 (ferrules) AWG 26 to 16 (stranded or solid wires)
	Stripped length	7 mm
	Tightening	0.5 to 0.6 N·m

Details on Crimp Terminals

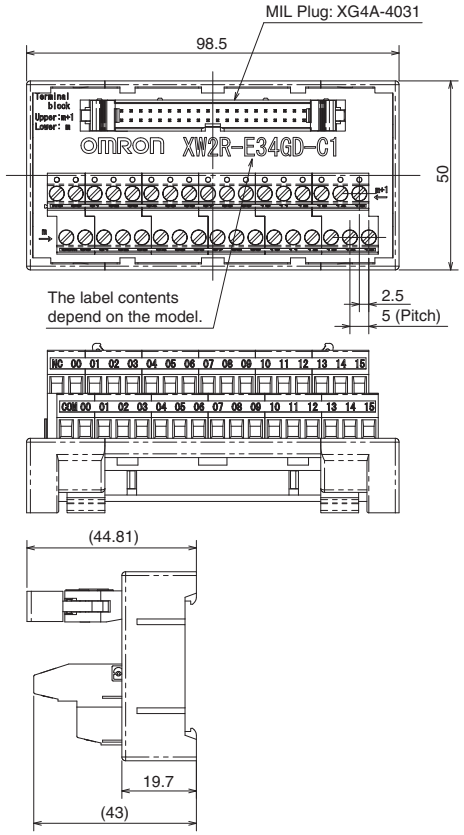
Applicable crimp terminals		Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm²)
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm²)
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm²)



Note: Round rod and blade crimp terminals are made by Nichifu.

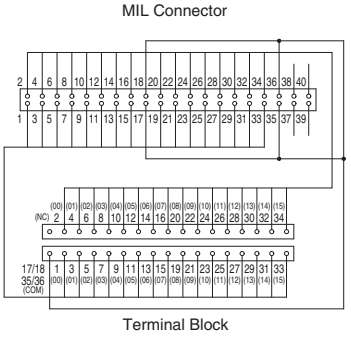
Dimensions

(Unit: mm)

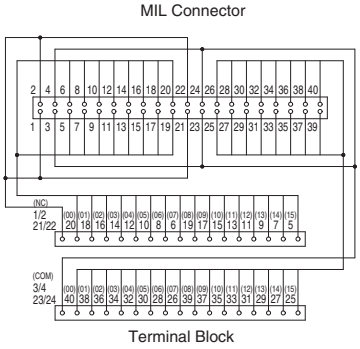


Wiring Diagram

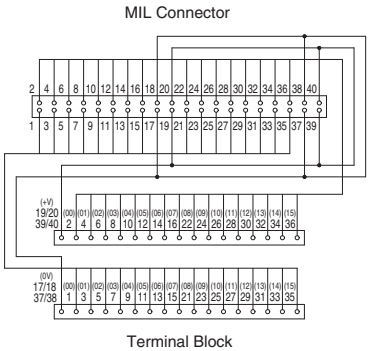
XW2R-E34GD-C1



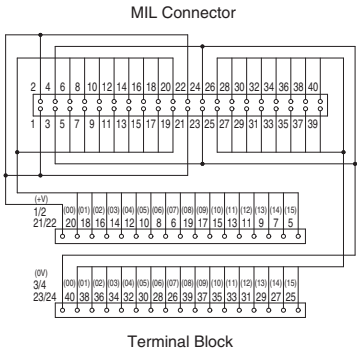
XW2R-E34GD-C2



XW2R-E34GD-C3

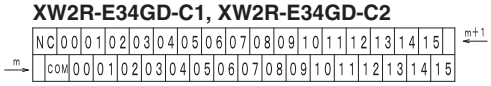


XW2R-E34GD-C4



Label Contents

XW2R-E34GD-C1, XW2R-E34GD-C2



XW2R-E34GD-C3, XW2R-E34GD-C4

Models for Connection to OMRON PLCs without power supply terminals

Push-in spring

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-P34GD-C1
		XW2R-P34GD-C2
		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.

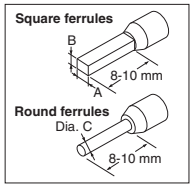
Ratings and Specifications

Rated 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
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.



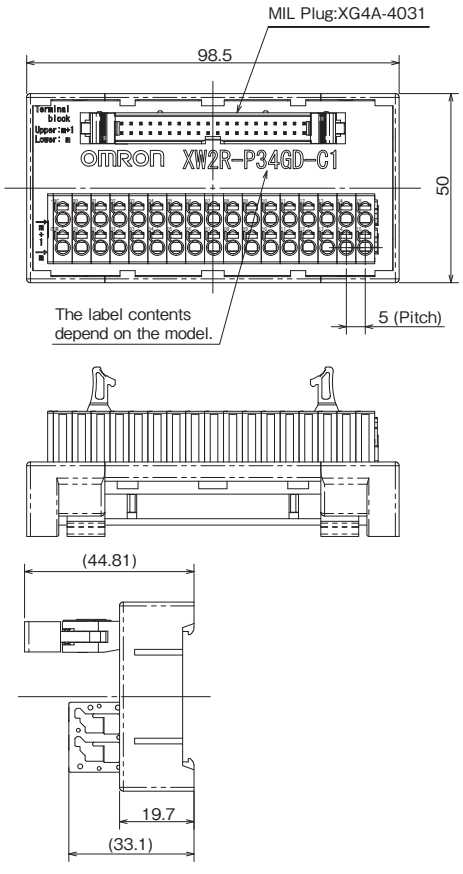
Ferrule Dimensions

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

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

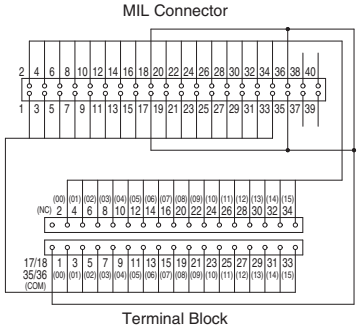
Dimensions

(Unit: mm)

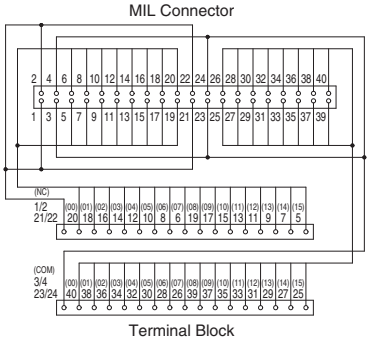


Wiring Diagram

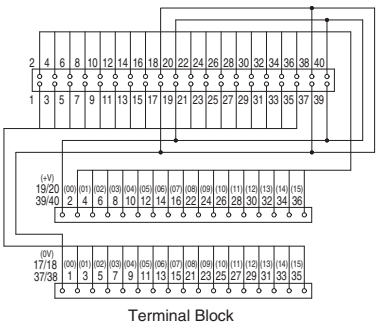
XW2R-P34GD-C1



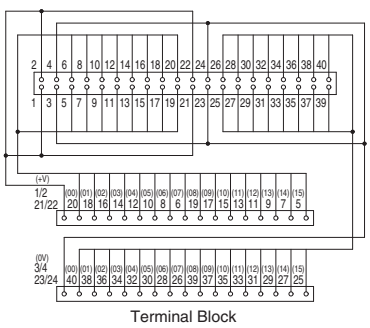
XW2R-P34GD-C2



XW2R-P34GD-C3



XW2R-P34GD-C4



Label Contents

XW2R-P34GD-C1, XW2R-P34GD-C2

m+1 →	NC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
m →	COM	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

XW2R-P34GD-C3, XW2R-P34GD-C4

m+1 →	+V	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
m →	0V	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

Models for Connection to Mitsubishi PLCs with power supply terminals

Model List

XW2R - □ 32 G D - M□ - COM

Wiring method		I/O Points		Mounted Connector type		Mounting method		PLC type		Power supply terminals	
P	Push-in spring	32	32 Points	G	MIL (XG4A)	D	DIN Track mounting	M1	Refer to the following table for details.	COM	Provided
G	MIL Connector							M2			

Models for Connection to Mitsubishi PLCs

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

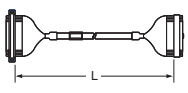
* □□□□ is replaced by the cable length.

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.

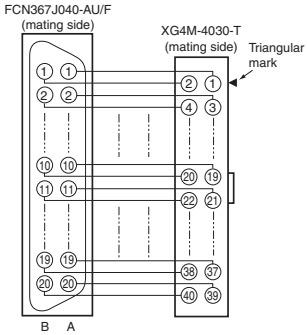
XW2Z-□□□B, XW2Z-□□□□BF-L
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

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



Wiring Diagram



Models for Connection to Mitsubishi PLCs with power supply terminals

MIL Connector

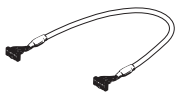
Models for Connection to Mitsubishi PLCs

I/O Points	Model	Models that connect to PLCs	Connecting cables*
32	QX41, QX41-S1, QX41-S2, QX71	XW2R-G32GD-M1-COM: 1 pcs	Connection A XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable Connection B XW2Z-□□□AA: 4 Cables
	QH42P(Input) , QX41Y41P (Input)		
	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 Connection B XW2Z-□□□AA: 8 Cables
	LX42C4		

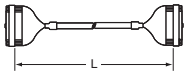
*□□□□ is replaced by the cable length.

Note: Refer to page 13 for information on the XW2Z-□□□B and XW2Z-□□□□BF-L.
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.

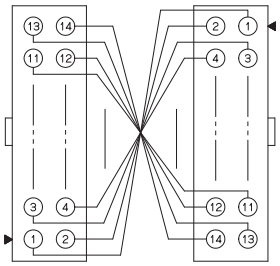
XW2Z-□□□AA One 14-pin MIL Connector to One 14-pin MIL Connector

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

Cable length L (m)

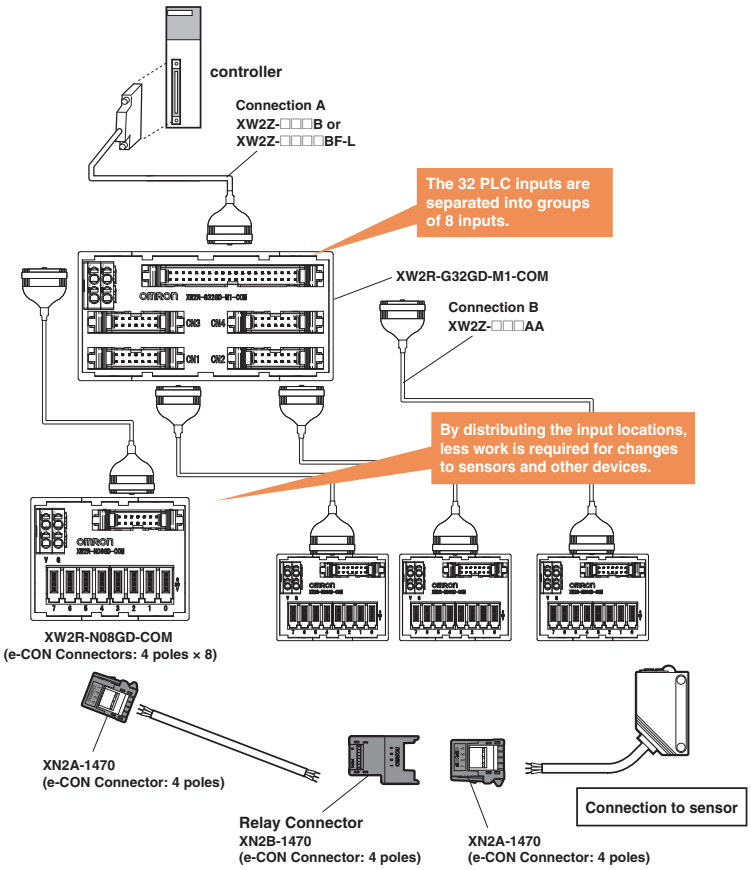


Wiring Diagram



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

Connection Examples



Models for Connection to Mitsubishi PLCs with power supply terminals

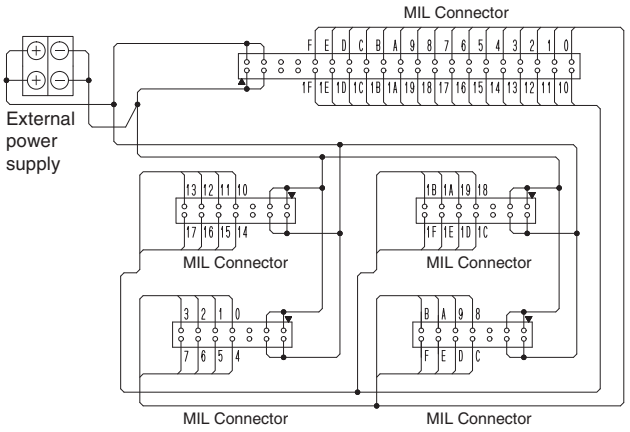
Ordering Information

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

Ratings and Specifications

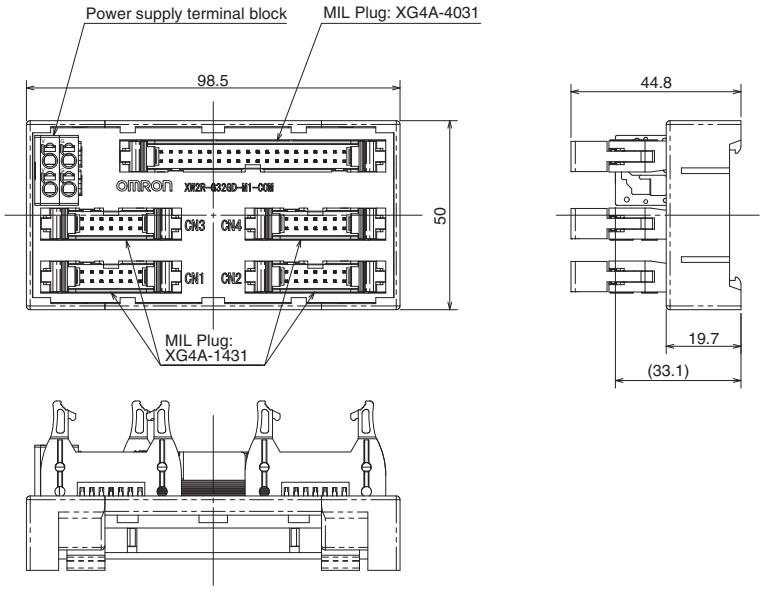
Rated current		Power supply terminal block: 8A Connectors: 1A
Rated voltage		24VDC
Insuration resistance		100MΩ min. (at 500VDC)
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature		0 to 55°C
Applicable wires	**Applicable wire sizes**	AWG 24 to 14 (ferrules) 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)



Models for Connection to Mitsubishi PLCs with power supply terminals

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)

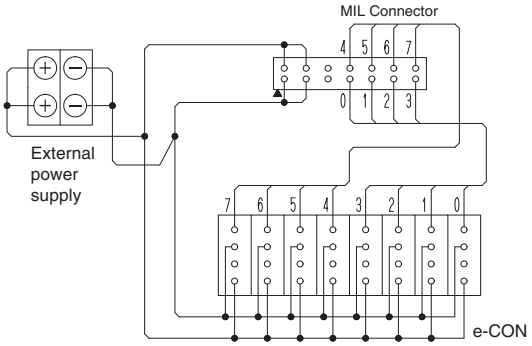
Ratings and Specifications

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 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 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.

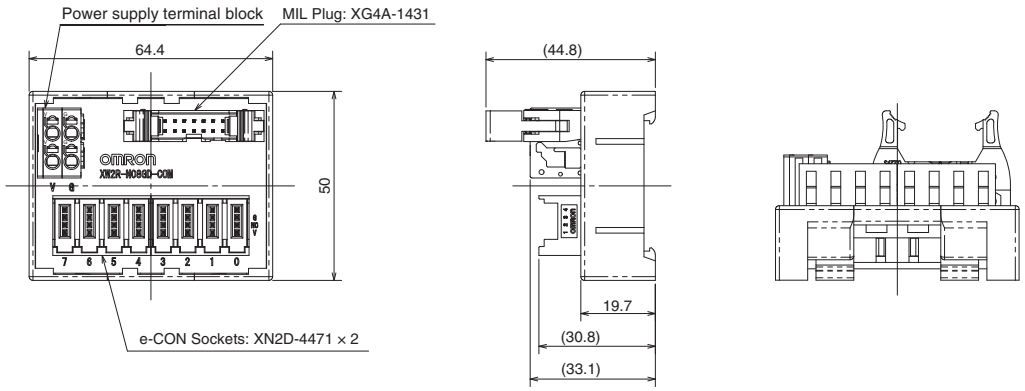
Wiring Diagram



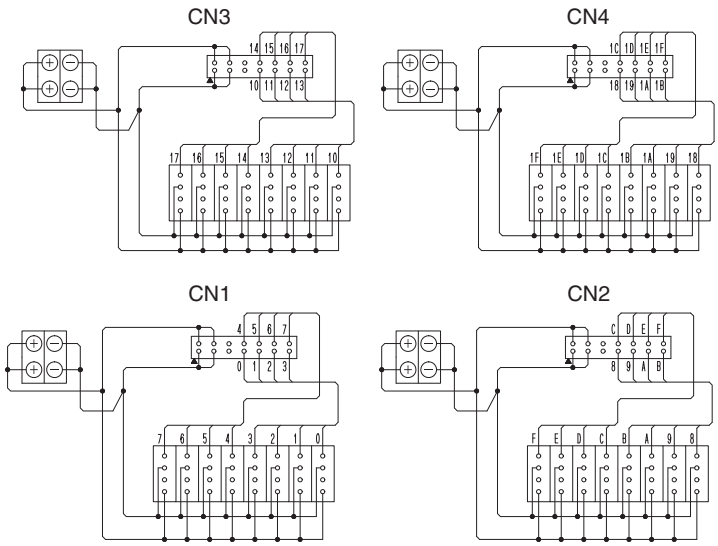
(This connection diagram is for combining with CN1 on the XW2R-G32GD-M1-COM.)

Dimensions

(Unit: mm)



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



Models for Connection to Mitsubishi PLCs with power supply terminals

Push-in spring

Ordering Information

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

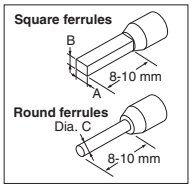
Ratings and Specifications

Rated current		1 A/signal, 8 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
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

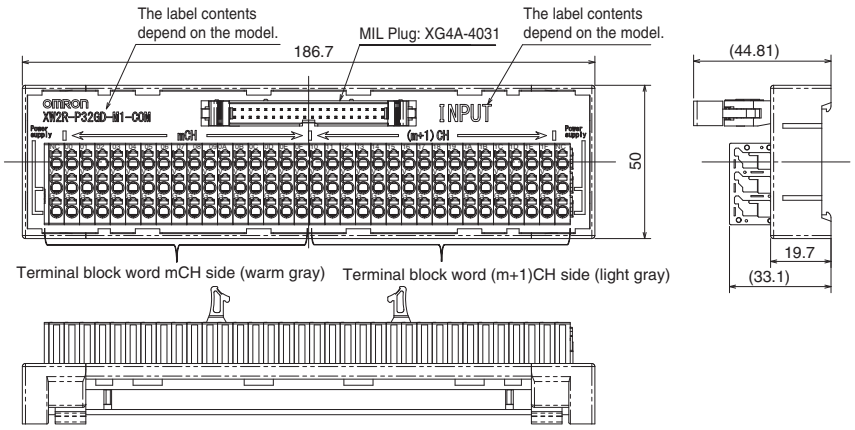


Square ferrules	**Dimension A (Width)**	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm² or less
	Dimension B (Height)	2 mm max.	
Round ferrules	**Dimension C (Diameter)**	2 mm dia. max. (after crimping)	

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

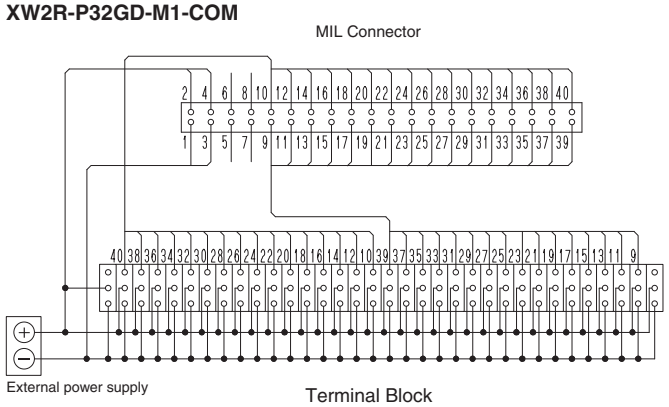
Dimensions

(Unit: mm)

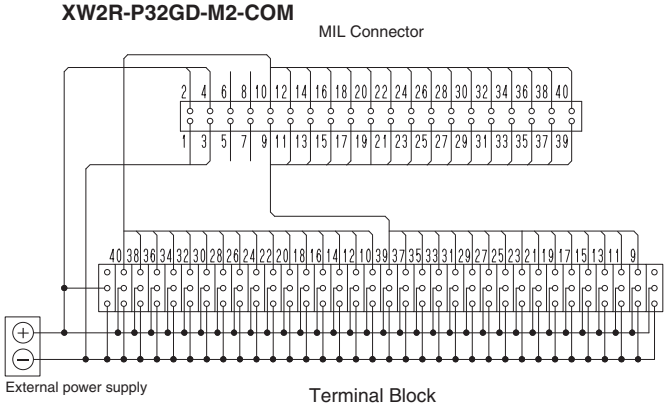


Wiring Diagram

XW2R-P32GD-M1-COM



XW2R-P32GD-M2-COM



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	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	V	V	V	V	V	V	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

Models for Connection to Mitsubishi PLCs without power supply terminals

Model List

XW2R - □ 34G □ - M □

Wiring method	
J	Phillips screw
E	Slotted screw (rise up)
P	Push-in spring

Number of poles	
34	34 poles (I/O points: 32 points)

Mounted Connector type	
G	MIL (XG4A)

Mounting method	
D	DIN Track mounting
V	Vertical screw mounting
Blank	Horizontal screw mounting

PLC Type	
M1	Refer to the following table for details.
M2	

Models for Connection to Mitsubishi PLCs

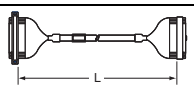
PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs ∗1	Connecting cables ∗2
M1	32	LX41C4	XW2R-□34GD-M1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□BF-L: 1 Cable
		QX41/QX41-S1/QX41-S2		
		QX71		
		RX41C4		
		QH42P (Input)		
		QX41Y41P (Input)		
		RH42C4NT2P (Input)		
	64	LX42C4	XW2R-□34GD-M1: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		QX42/QX42-S1		
		QX82/QX82-S1		
		RX42C4		
M2	32	LY41NT1P	XW2R-□34GD-M2: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		QY41P		
		QY71		
		RY41NT2P		
		RY41PT1P		
		QH42P (Output)		
		QX41Y41P (Output)		
		RH42C4NT2P (Output)		
	64	LY42NT1P	XW2R-□34GD-M2: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 1 Cable
		QY42P		
		QY82P		
		RY42NT2P		
		RY42PT1P		

∗1 Replace the box (□) with the wiring method code (J, E, or P).
∗2 □□□□ is replaced by the cable length.

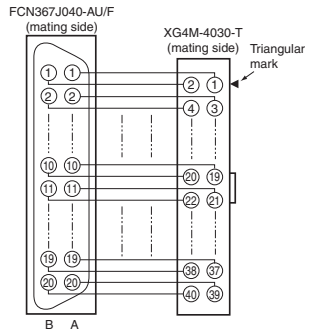
XW2Z-□□□B, XW2Z-□□□□BF-L
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield Model	With shield 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)



Wiring Diagram



Models for Connection to Mitsubishi PLCs without power supply terminals

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	**XW2R-J34GD-M1**
		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
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 wires	**Applicable wire sizes**	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)
	Stripped length	9 mm
	Tightening	0.5 N·m

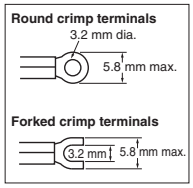
Details on Crimp Terminals

Wiring Terminal Blocks

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

Terminal Screw Tightening Torque

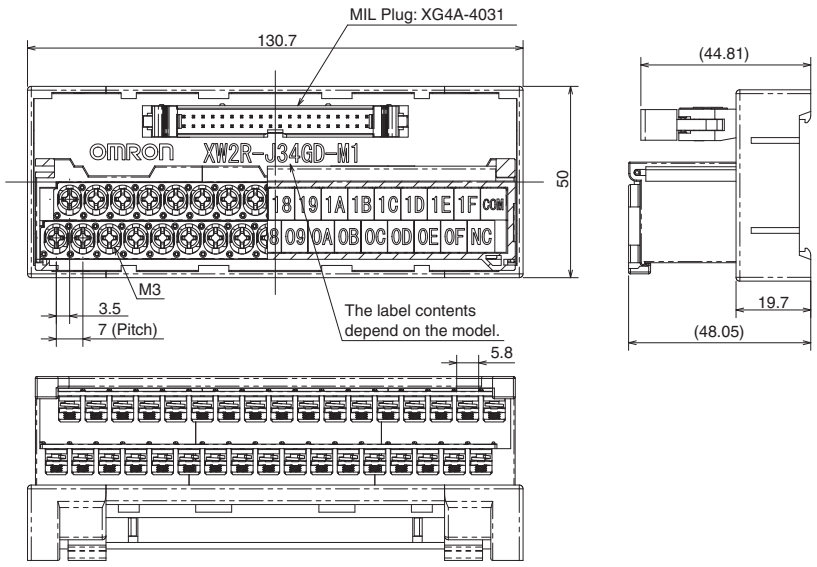
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



Applicable crimp terminals		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)

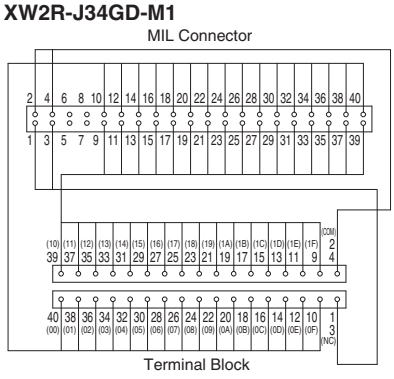
Dimensions

(Unit: mm)

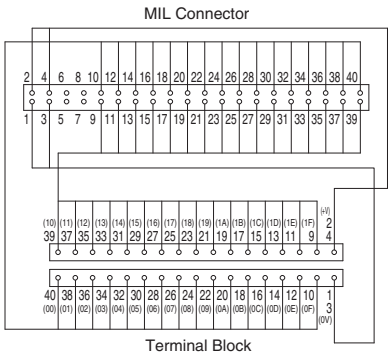


Wiring Diagram

XW2R-J34GD-M1



XW2R-J34GD-M2



Label Contents

XW2R-J34GD-M1

	1	0	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	NC	

XW2R-J34GD-M2

	1	0	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	+V
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	0V	

Models for Connection to Mitsubishi PLCs without power supply terminals

Slotted screw (rise up)

Ordering Information

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

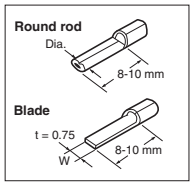
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated current		0.5 A/signal, 2 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
Applicable wires	**Applicable wire sizes**	AWG 22 to 16 (ferrules) AWG 26 to 16 (stranded or solid wires)
	Stripped length	7 mm
	Tightening	0.5 to 0.6 N·m

Details on Crimp Terminals

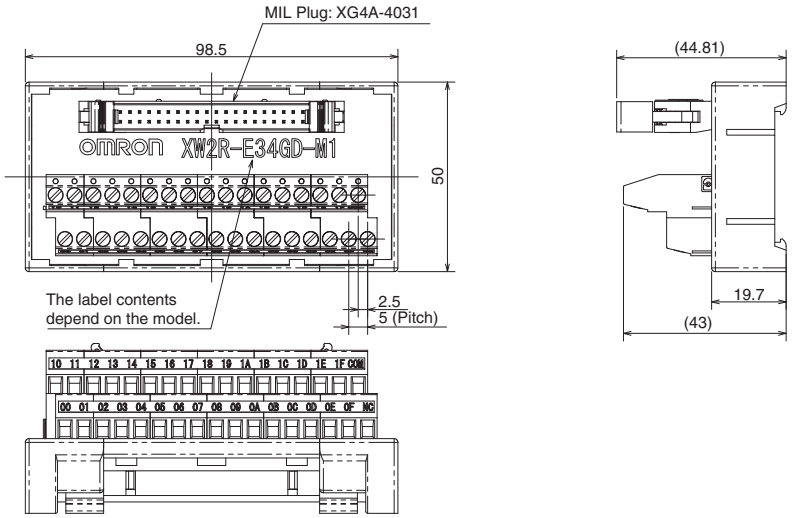
Applicable crimp terminals		Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm²)
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm²)
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm²)



Note: Round rod and blade crimp terminals are made by Nichifu.

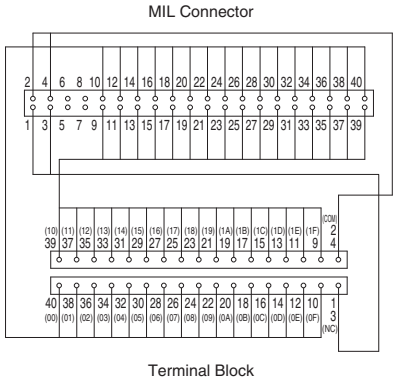
Dimensions

(Unit: mm)

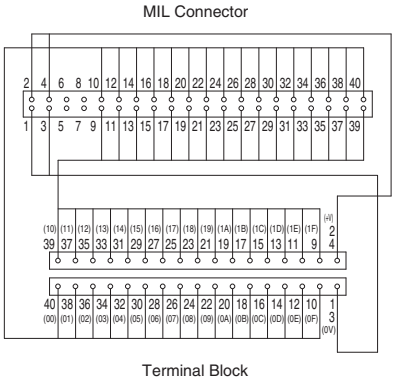


Wiring Diagram

XW2R-E34GD-M1



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
00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0V

Models for Connection to Mitsubishi PLCs without power supply terminals

Push-in spring

Ordering Information

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

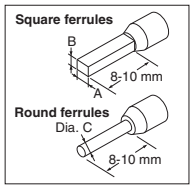
Ratings and Specifications

Rated current		0.5 A/signal, 2 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
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.



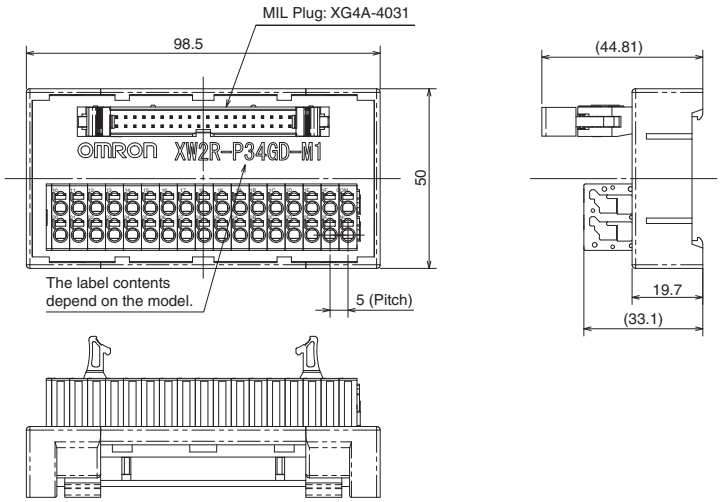
Ferrule Dimensions

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

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

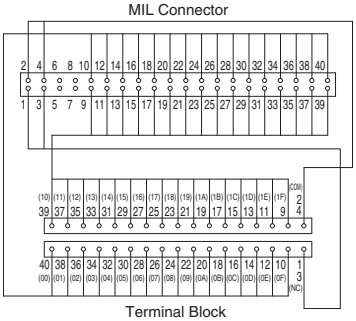
Dimensions

(Unit: mm)

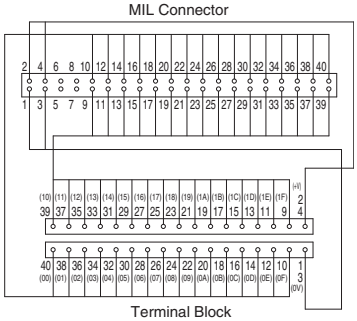


Wiring Diagram

XW2R-P34GD-M1



XW2R-P34GD-M2



Label Contents

XW2R-P34GD-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-P34GD-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	

Models for Keyence PLCs with power supply terminals

Model List

XW2R - P 32 G D - K1 - COM

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

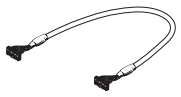
Models for Keyence PLCs

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

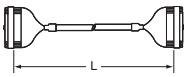
* □□□□ is replaced by the cable length.

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.

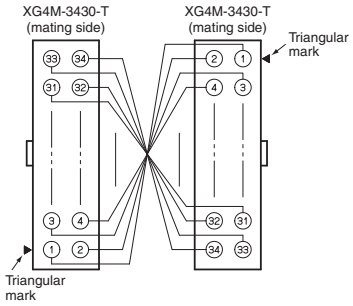
XW2Z-□□□EE, XW2Z-□□□EE-L
Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

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

Models for Keyence PLCs with power supply terminals

Push-in spring

Ordering Information

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

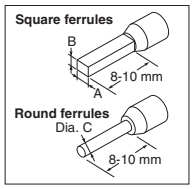
Ratings and Specifications

Rated current		1 A/signal, 8 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
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

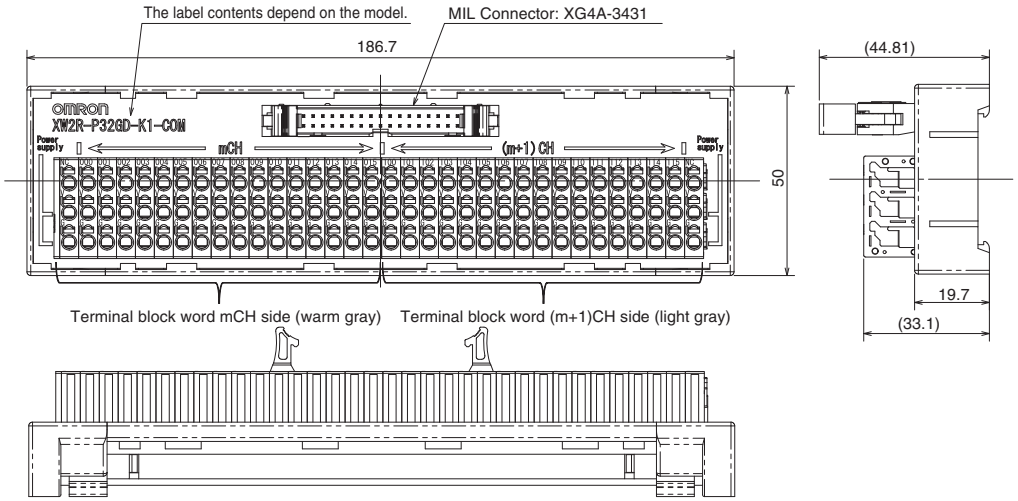


Square ferrules	**Dimension A (Width)**	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm² or less
	Dimension B (Height)	2 mm max.	
Round ferrules	**Dimension C (Diameter)**	2 mm dia. max. (after crimping)	

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

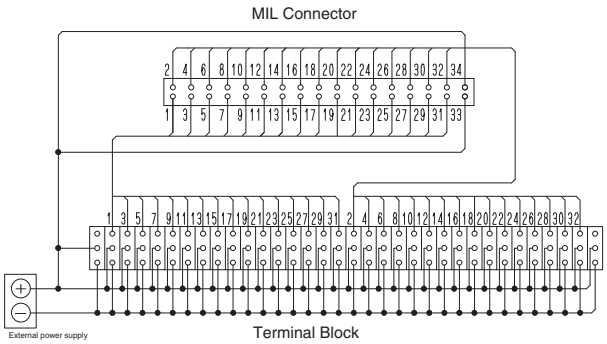
Dimensions

(Unit: mm)



Wiring Diagram

XW2R-P32GD-K1-COM



Label Contents

XW2R-P32GD-K1-COM

mCH																	(m+1)CH															
NC	000	001	002	003	004	005	006	007	008	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	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	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	G	G	G

Models for Keyence PLCs without power supply terminals

Model List

XW2R - □ □□ G □ - K□

Wiring method	
J	Phillips screw
P	Push-in spring

Number of poles	
34	34 poles (I/O points: 32 points)*1
40	40 poles (I/O points: 36 points)*2

*1. K1 Type
*2. K2 Type

Mounted Connector type	
G	MIL (XG4A)

Mounting method	
D	DIN Track mounting
V	Vertical screw mounting
Blank	Horizontal screw mounting

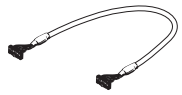
PLC Type	
K1	Refer to the following table for details.
K2	

Models for Keyence PLCs

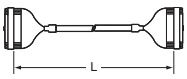
I/O	I/O Points	Unit	Models for Keyence PLCs	Models that connect to PLCs *1	Connecting cables *2
Input	32	I/O Unit Model	KV-C32XA, KV-C32XC	XW2R-□34GD-K1: 1 pcs	XW2Z-□□□EE: 1 Cable, or XW2Z-□□□□EE-L: 1 Cable
Output			KV-C32TA, KV-C32TC, KV-C32TCP		
			KV-C32TD		
I/O			KV-C32XTD		
Input	64		KV-C64XA, KV-C64XB, KV-C64XC	XW2R-□34GD-K1: 2 pcs	XW2Z-□□□EE: 2 Cables, or XW2Z-□□□□EE-L: 2 Cables
Output			KV-C64TA, KV-C64TC, KV-C64TD, KV-C64TCP		
---	---	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 (□) with the wiring method code (J or P).
*2 □□□□ is replaced by the cable length.

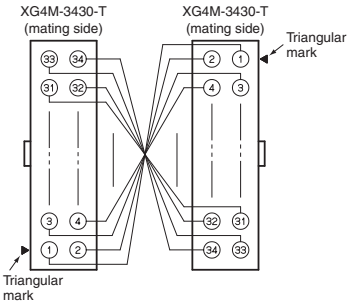
XW2Z-□□□EE, XW2Z-□□□□EE-L
Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

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

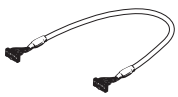


Wiring Diagram

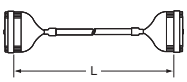


Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

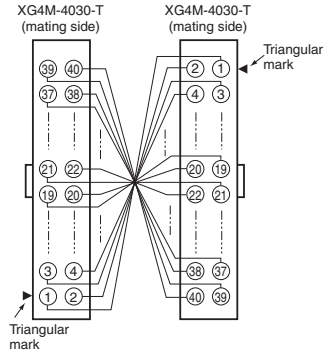
XW2Z-□□□K, XW2Z-□□□□FF-L
Connectors: One 40-pin MIL Connector to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield Model	Without shield 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. 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 voltage		125 VAC/DC
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 wires	**Applicable wire sizes**	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)
	Stripped length	9 mm
	Tightening	0.5 N·m

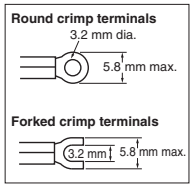
Details on Crimp Terminals

Wiring Terminal Blocks

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

Terminal Screw Tightening Torque

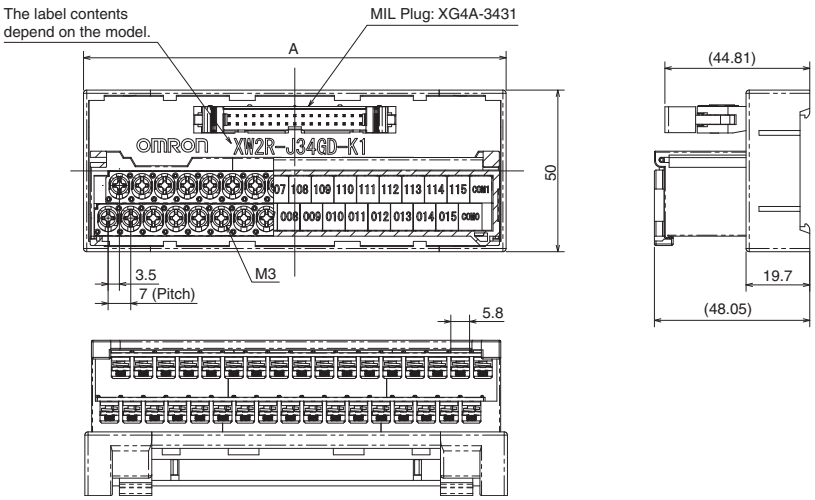
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



Applicable crimp terminals		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)

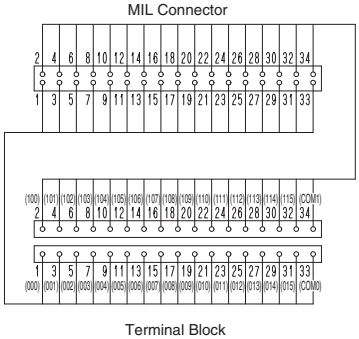
Dimensions

(Unit: mm)

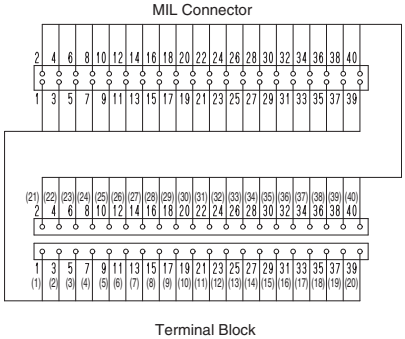


Wiring Diagram

XW2R-J34GD-K1

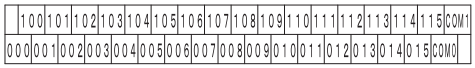


XW2R-J40GD-K2



Label Contents

XW2R-J34GD-K1



XW2R-J40GD-K2