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 Appearance power supply terminals				
	Model	XW2R-DDGD-CD-COM	XW2R-□32GD-M□-COM	XW2R-P32GD-K1-COM
	Page	Page 2	Page 13	Page 22
Without Appearance power supply terminals				
	Model	XW2R-□34GD-C□	XW2R-⊟34GD-M⊡	XW2R-□□□GD-K□
	Page	Page 9	Page 18	Page 24

Options (Order Separately)

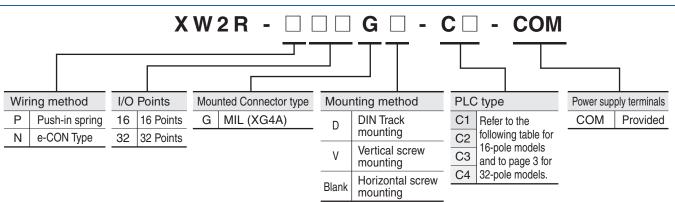
Models that are mounted with screws are also available.

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.

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		
input	64	CJ1W-ID261	XW2R-P16GD-C1-COM: 4 pcs	XW2Z-DD: 2 Cables	
64		CS1W-ID261	XW2R-N16GD-C1-COM: 4 pcs	AW2Z-LLLD. 2 Cables	
		NX-MD6121-6 (inputs)	XW2R-P16GD-C1-COM: 1 pcs	XW2Z-	
	16	· · · · · · · · · · · · · · · · · · ·	XW2R-N16GD-C1-COM: 1 pcs	////	
		CJ1W-MD231 (inputs)	XW2R-P16GD-C1-COM: 1 pcs XW2R-N16GD-C1-COM: 1 pcs	XW2Z-DDA: 1 Cable	
I/O		CJ1W-MD261 (inputs)			
	00	CS1W-MD261 (inputs)	XW2R-P16GD-C1-COM: 2 pcs		
	32	CS1W-MD262 (inputs)	XW2R-N16GD-C1-COM: 2 pcs	XW2Z-DD: 1 Cable	
		CS1W-MD561 (inputs)			
Input		CJ1W-ID232			
input	32	CJ1W-ID233	XW2R-P16GD-C1-COM: 2 pcs	XW2Z-DDN: 1 Cable	
1/0	52	CJ1W-MD263 (inputs)	XW2R-N16GD-C1-COM: 2 pcs		
1/0		CJ1W-MD563 (inputs)			
Input	64	CJ1W-ID262	XW2R-P16GD-C1-COM: 4 pcs XW2R-N16GD-C1-COM: 4 pcs	XW2Z-DDN: 2 Cables	
	16	NX-OD5121-5	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-	
	10	NX-OD5256-5			
		CJ1W-OD231			
		CS1W-OD231	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-DDL: 1 Cable	
	32	CS1W-OD232			
Dutput	52	CJ1W-OD232			
Julpul		CJ1W-OD233	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-OON: 1 Cables	
		CJ1W-OD234			
		CJ1W-OD261	XW2R-P16GD-C3-COM: 4 pcs	XW2Z-DDL: 2 Cables	
	64	CS1W-OD261	XW2111 100D-00-00101.4 pcs	AWZZ-LILL. Z Oables	
	04	CJ1W-OD262	XW2R-P16GD-C3-COM : 4 pcs	XW2Z-DDN: 2 Cables	
		CJ1W-OD263	XW2R-F 10GD-C3-COM : 4 pcs	AW22-DEDIN. 2 Cables	
	16	NX-MD6121-6 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-DDA: 1 Cable	
	10	CJ1W-MD231 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-DDA: 1 Cable	
I/O		CJ1W-MD261 (outputs)			
1/0	32	CS1W-MD261 (outputs)	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-	
	52	CS1W-MD262 (outputs)	AW20-F 1000-00-00W. 2 pts		
		CS1W-MD561 (outputs)			

* \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.

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-DOK: 1 Cable, or XW2Z-DOFF-L: 1 Cable	
	32	NX-ID6142-6	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-DB: 1 Cable, or XW2Z-DBF-L: 1 Cable	
Input		CJ1W-ID231	XW2R-P32GD-C1-COM: 1 pcs	XW2Z-DDB: 1 Cable, or	
		CS1W-ID231	XW2R-N32GD-C1-COM: 1 pcs	XW2Z-DDDBF-L: 1 Cable	
	64	CJ1W-ID261	XW2R-P32GD-C1-COM: 2 pcs	XW2Z-DDB: 2 Cables, or	
	04	CS1W-ID261	XW2R-N32GD-C1-COM: 2 pcs	XW2Z-DDDBF-L: 2 Cables	
	1	CJ1W-MD261 (inputs)			
I/O	32	CS1W-MD261 (inputs)	XW2R-P32GD-C1-COM: 1 pcs	XW2Z-DDB: 1 Cable, or	
1/0	32	CS1W-MD262 (inputs)	XW2R-N32GD-C1-COM: 1 pcs	XW2Z-DDBF-L: 1 Cable	
		CS1W-MD561 (inputs)			
	20	CJ1W-ID232	XW2R-P32GD-C2-COM: 1 pcs	XW2Z-DDK: 1 Cable, or	
Input	32	CJ1W-ID233	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-DDDFF-L: 1 Cable	
input	64	CJ1W-ID262	XW2R-P32GD-C2-COM: 2 pcs XW2R-N32GD-C2-COM: 2 pcs	XW2Z-DCK: 2 Cables, or XW2Z-CCF-L: 2 Cables	
I/O	32	CJ1W-MD263 (inputs)	XW2R-P32GD-C2-COM: 1 pcs	XW2Z-DDK: 1 Cable, or	
1/0	52	CJ1W-MD563 (inputs)	XW2R-N32GD-C2-COM: 1 pcs	XW2Z-	
		NX-OD6121-5	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-DDK: 1 Cable, or	
		NX-OD6256-5		XW2Z-	
	32	NX-OD6121-6	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-DB: 1 Cable, or XW2Z-DBF-L: 1 Cable	
Dutput		CJ1W-OD231		XW2Z-DB: 1 Cable, or XW2Z-DDBF-L: 1 Cable	
Juipui		CS1W-OD231	XW2R-P32GD-C3-COM: 1 pcs		
		CS1W-OD232			
		CJ1W-OD261		XW2ZB: 2 Cables, or XW2ZBF-L: 2 Cables	
	64	CS1W-OD261	XW2R-P32GD-C3-COM: 2 pcs		
		CS1W-OD262			
		CJ1W-MD261 (outputs)			
I/O 32	32	CS1W-MD261 (outputs)	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-DDB: 1 Cable, or	
	02	CS1W-MD262 (outputs)		XW2Z-DDDBF-L: 1 Cable	
		CS1W-MD561 (outputs)			
Output		CJ1W-OD232		XW2Z-DOK: 1 Cable, or	
	32	CJ1W-OD233	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-	
		CJ1W-OD234			
	64	CJ1W-OD262	XW2R-P32GD-C4-COM: 2 pcs	XW2Z-DCK: 2 Cables, or	
	04	CJ1W-OD263		XW2Z-DDDFF-L: 2 Cables	
I/O	32	CJ1W-MD263 (outputs)	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-DCK: 1 Cable, or	
	52	CJ1W-MD563 (outputs)	7.00211-1 020D-04-00101. 1 pcs	XW2Z-	

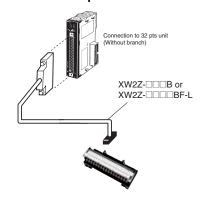
 $\hfill \square \square \square$ is replaced by the cable length. Refer to page 4.

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

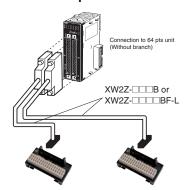
This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

Connection Examples

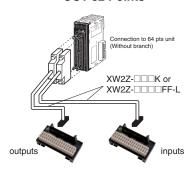
32-point Input Unit or Output Unit CJ1W-ID231 32-point CJ1W-OD231 32-point



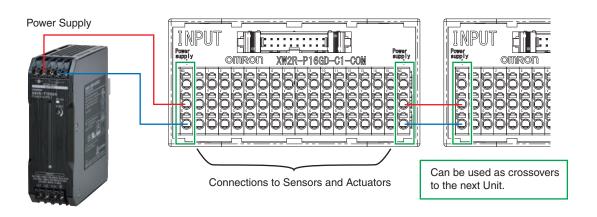
64-point Input Unit or Output Unit CJ1W-ID261 64-point CJ1W-OD261 64-point



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



Application Example

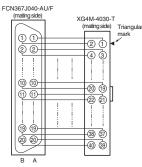


PLC Connecting Cables

XW2Z-DDB, XW2Z-DDBF-L Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Annoaranaa	Cable 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
\leq	7	XW2Z-700B	XW2Z-0700BF-L
	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	
	20	XW2Z-20MB	

Wiring Diagram



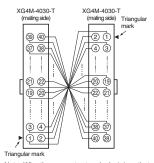
Cable length L (m)



XW2Z-DDK, XW2Z-DDFF-L Connectors: One 40-pin Connector to One 40-pin MIL Connector

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

(Unit: mm)

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)	
A.	16	Input	XW2R-P16GD-C1-COM	- 98.5	
	10	Output	XW2R-P16GD-C3-COM	98.5	
		Input	XW2R-P32GD-C1-COM		
			XW2R-P32GD-C2-COM		
All the second s	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.

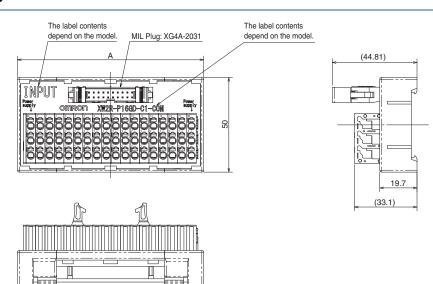
*2 Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated current		16 Points: 1A/signal, 4A/common 32 Points: 1A/signal, 8A/common	
Rated volta	ge	24VDC	
Insuration re	esistance	100MΩ min. (at 500VDC)	
Dielectric strength		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	

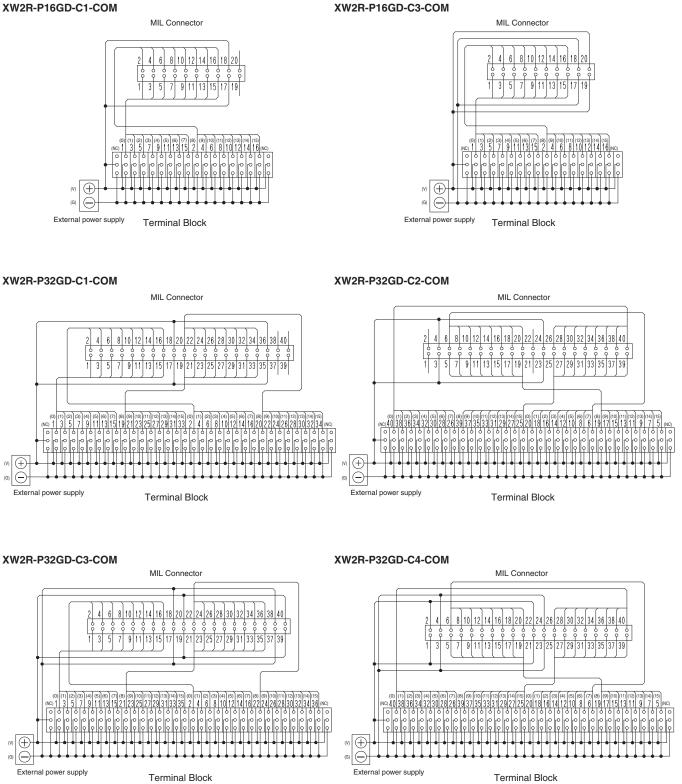
Details on Crimp Terminals Square ferrule **Applicable Ferrules** • Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the Dia posts. 8-10 n • Ferrule Dimensions **Dimension A** 2.7 mm max. The cross-sectional area (Width) Square after crimping must be ferrules **Dimension B** 2 mm max. 4.8 mm² or less (Height) Round Dimension C 2 mm dia. max. (after crimping) ferrules (Diameter) Refer to page 28 for information on Square/Round ferrule and use tool.

Dimensions



Wiring Diagram

XW2R-P16GD-C1-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	٧	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

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 v v v GGG G G G GG G GG G GG G GG GIGIG

6

e-CON Type

Ordering Information

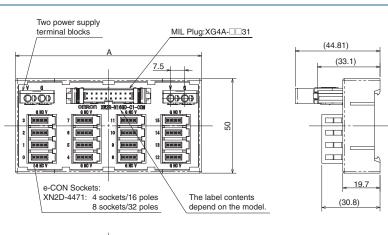
Appearance	I/O Points	Input/Output	Model	Dimension A (mm)
All the second s	16		XW2R-N16GD-C1-COM	98.5
	32	Input	XW2R-N32GD-C1-COM	186.7
			XW2R-N32GD-C2-COM	100.7

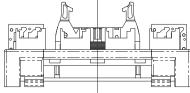
Ratings and Specifications

		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 voltag	e	24VDC			
Insuration re	sistance	100MΩ min. (at 500VDC)			
Dielectric str	ength	500VAC for 1 min (leakage current: 1 mA max.)			
Ambient ope	rating temperature	e 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 application	pplicable range for th	e power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 27.			
Refer to page 2	7 for the recommended	e-CON Connectors.			

Dimensions

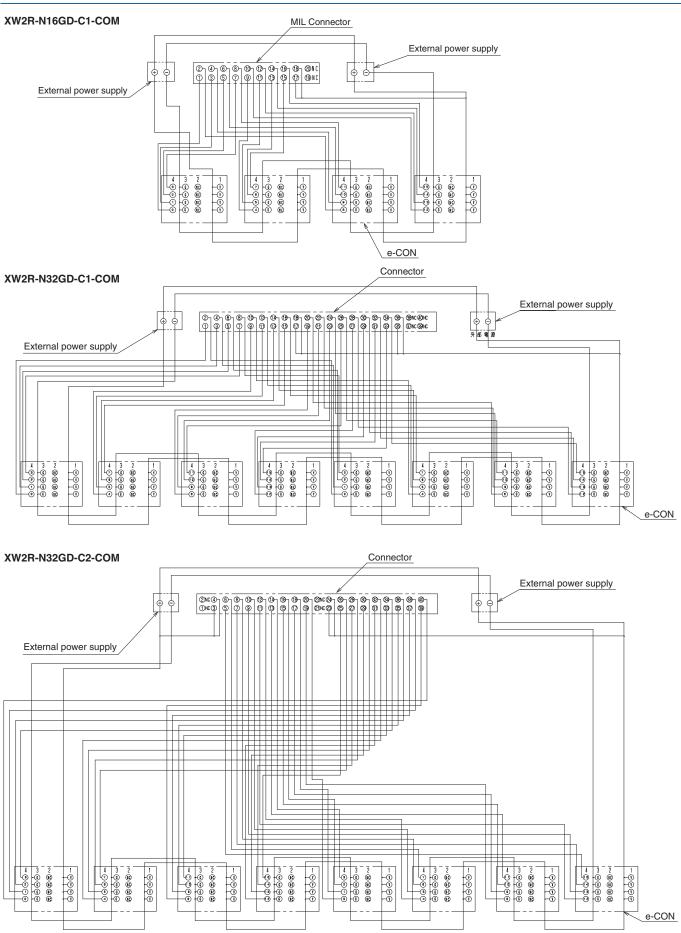
(Unit: mm)



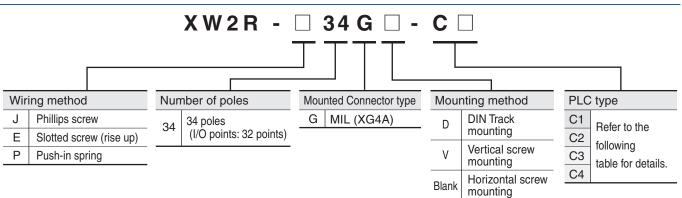




Wiring Diagram



Model List



Models for OMRON PLCs

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs *1	Connecting cables *2	
		NX-ID6142-6	XW2R-□34GD-C1: 1 pcs	XW2Z-DDB: 1 Cable, or XW2Z-DDBF-L: 1 Cable	
lanut	32	CJ1W-ID231	XW2R-□34GD-C1: 1 pcs	XW2Z-DB: 1 Cable, or	
Input		CS1W-ID231		XW2Z-DBF-L: 1 Cable	
	64	CJ1W-ID261	XW2R-□34GD-C1: 2 pcs	XW2Z-DB: 2 Cables, or	
	04	CS1W-ID261	AW2H-0440-01.2 pts	XW2Z-	
		CJ1W-MD261 (inputs)			
I/O	32	CS1W-MD261 (inputs)	XW2R-□34GD-C1: 1 pcs	XW2Z-DDB: 1 Cable, or	
1/0	32	CS1W-MD262 (inputs)		XW2Z-DDBF-L: 1 Cable	
		CS1W-MD561 (inputs)			
	20	NX-ID6142-5	XW2R-□34GD-C2: 1 pcs	XW2Z-DCK: 1 Cable, or XW2Z-CCFF-L: 1 Cable	
Input	32	CJ1W-ID232	XW2R-□34GD-C2: 1 pcs	XW2Z-DDK: 1 Cable, or	
input		CJ1W-ID233		XW2Z-DDDFF-L: 1 Cable	
	64	CJ1W-ID262	XW2R-□34GD-C2: 2 pcs	XW2Z-DCK: 2 Cables, or XW2Z-CCF-L: 2 Cables	
I/O 32	CJ1W-MD263 (inputs)	XW2R-□34GD-C2: 1 pcs	XW2Z-DDK: 1 Cable, or		
1/0	32	CJ1W-MD563 (inputs)		XW2Z-DDDFF-L: 1 Cable	
		NX-OD6121-6	XW2R-□34GD-C3: 1 pcs	XW2Z-DB: 1 Cable, or XW2Z-DBF-L: 1 Cable	
	32	CJ1W-OD231			
Outrout.		CS1W-OD231	XW2R-□34GD-C3: 1 pcs	XW2Z-DDB: 1 Cable, or XW2Z-DDDBF-L: 1 Cable	
Output		CS1W-OD232			
		CJ1W-OD261			
	64	CS1W-OD261	XW2R-□34GD-C3: 2 pcs	XW2Z-DB: 2 Cables, or XW2Z-DB: 2 Cables	
		CS1W-OD262		AWZZ-LILIDI -L. Z Cables	
		CJ1W-MD261 (outputs)			
I/O	32	CS1W-MD261 (outputs)	XW2R-□34GD-C3: 1 pcs	XW2Z-DDB: 1 Cable, or	
1/0	32	CS1W-MD262 (outputs)	AWZR-Do40D-00. 1 pcs	XW2Z-	
		CS1W-MD561 (outputs)			
		NX-OD6121-5		XW2Z-DDK: 1 Cable, or	
		NX-OD6256-5	XW2R-□34GD-C4: 1 pcs	XW2Z-DDDFF-L: 1 Cable	
Output	32	CJ1W-OD232			
		CJ1W-OD233	XW2R-□34GD-C4: 1 pcs	XW2Z-	
		CJ1W-OD234			
	64	CJ1W-OD262		XW2Z-DDK: 2 Cables, or	
	64	CJ1W-OD263	XW2R-□34GD-C4: 2 pcs	XW2Z-DDDFF-L: 2 Cables	
I/O	32	CJ1W-MD263 (outputs)	XW2R-□34GD-C4: 1 pcs	XW2Z-DOK: 1 Cable, or	
1/0	32	CJ1W-MD563 (outputs)	AW2n-10400-04. 1 pcs	XW2Z-DDDFF-L: 1 Cable	

***1** Replace the box (\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.

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
		XW2R-J34GD-C1
THE R. L.	00 (04)	XW2R-J34GD-C2
Constanting of	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 vo	oltage	24VDC
Insuration	on resistance	100MΩ min. (at 500VDC)
Dielectri	ic strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient tempera	t operating ture	0 to 55°C
Applic able	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

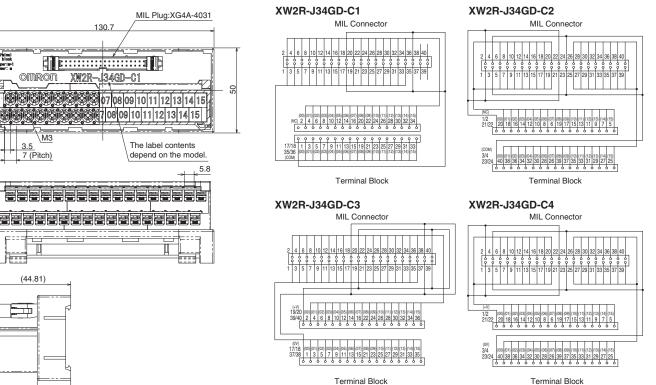
Details on Crimp Terminals Wiring Terminal Blocks Round crimp terminals 3,2 mm dia. • Using Crimp Terminals (With a Terminal ත 5.8¹mm max Block with M3 Screws) **Terminal Screw Tightening Torque** crimp terminals • Use a tightening torque of 0.5 N·m when (3.2 mm 1 5.8 mm max connecting wires or crimp terminals to the terminal block. Applicable wires Applicable crimp terminals 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

per:e+1

(Unit: mm)

Wiring Diagram



Label Contents

(48.05)

19.7

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XW2R-J34GD-C1, XW2R-J34GD-C2

NC m+1 0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 1 4 1 5 ^C^{CM} 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

 $\begin{smallmatrix} + v \\ m+1 \end{smallmatrix} 0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 1 4 1 5$ ⁰/_m 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Slotted screw (rise up)

Dimensions

Ordering Information

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

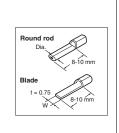
(Unit: mm)

* 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

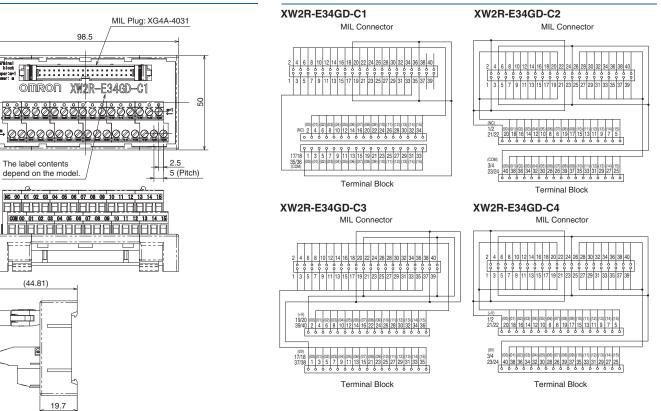
Rated	current	0.5 A/signal, 4 A/common
Rated	voltage	24VDC
Insura	tion resistance	100MΩ min. (at 500VDC)
Dielect	tric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambie tempe	nt operating rature	0 to 55°C
	Applicable wire	AWG 22 to 16 (ferrules)
Appli	sizes	AWG 26 to 16 (stranded or solid wires)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

s on Crimp	Terminals
cable crimp erminals	Applicable wires
TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)
TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm ²)
BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm ²)
	cable crimp rminals TC-05 Dia. = 1 TC-1.25S Dia. = 1.5 BT1.25-9-1 BT1.25-10-1



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

Wiring Diagram



Label Contents

(43)

XW2R-E34GD-C1, XW2R-E34GD-C2 <u>NC0001020304050607080</u>9101112131415

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

XW2R-E34GD-C3, XW2R-E34GD-C4

- <u>--</u> 0 V 0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 1 4 1 5

Downloaded from Arrow.com.

11

Push-in spring

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
		XW2R-P34GD-C1
All Done	20 (04)	XW2R-P34GD-C2
AND	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	esistance	100MΩ min. (at 500VDC)
Dielectric st	rongth	500VAC for 1 min
Dielectric St	lengui	(leakage current: 1 mA max.)
Ambient ope 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
wires		4 mm max)
	Stripped	AWG28-16: 8 to 10 mm
	length	AWG14: 9 to 10 mm

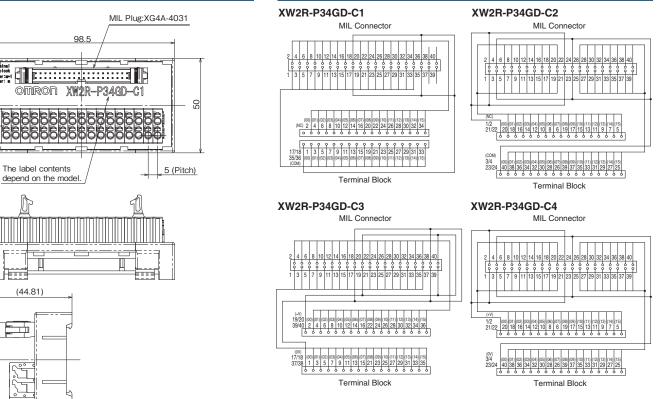
Details on Crimp Terminals Square ferrules **Applicable Ferrules** · Use ferrules of the lengths and thicknesses 10 mn specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts. 8-10 r **Ferrule Dimensions Dimension A** 2.7 mm max. The cross-sectional area (Width) Square after crimping must be ferrules **Dimension B** 4.8 mm² or less 2 mm max. (Height) Round Dimension C 2 mm dia. max. (after crimping) ferrules (Diameter) Refer to page 28 for information on Square/Round ferrule and use tool.

98.5

Dimensions



Wiring Diagram



Label Contents

19.7 (33.1)

XW2R-P34GD-C1, XW2R-P34GD-C2

- N C 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
 - 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-P34GD-C3, XW2R-P34GD-C4

m+1 + V 0 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 1 4 1 5

Model List

	X W 2	R - 🗌 32 G	<u>i D</u> - <u>M □</u> -	C	OM		_
Wiring method	I/O Points	Mounted Connector type	Mounting method	PLC	type	Power sup	oply terminals
P Push-in spring	32 32 Points	G MIL (XG4A)	D DIN Track mounting	M1	Refer to the following	COM	Provided
G MIL Connector				M2	table for details.		

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		
	32	RX41C4	XW2R-P32GD-M1-COM: 1 pcs	XW2Z-DB: 1 Cable, or XW2Z-DBF-L: 1 Cable
		QH42P (Input)		
M1		QX41Y41P (Input)		
		RH42C4NT2P (Input)		
		LX42C4		
	64	QX42/QX42-S1	XWOR ROOCD M1 COM: 0 per	XW2Z-DDB: 2 Cables, or
	04	QX82/QX82-S1	XW2R-P32GD-M1-COM: 2 pcs	XW2Z-DDDBF-L: 2 Cable
		RX42C4		
		LY41NT1P		
		QY41P		
		QY71		
	20	RY41NT2P	XWOR ROOCD MO COM: 1 res	XW2Z-DDB: 1 Cable, or
	32	RY41PT1P	XW2R-P32GD-M2-COM: 1 pcs	XW2Z-DDDBF-L: 1 Cable
		QH42P (Output)		
M2		QX41Y41P (Output)		
		RH42C4NT2P (Output)		
		LY42NT1P		
		QY42P		
	64	QY82P	XW2R-P32GD-M2-COM: 2 pcs	XW2Z-DB: 2 Cables, or XW2Z-DBF-L: 2 Cable
		RY42NT2P		
		RY42PT1P	1	

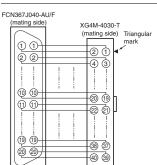
* \square \square is replaced by the cable length.

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-DDB, XW2Z-DDBF-L Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

A	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	

Cable length L (m)



Wiring Diagram

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-00B: 1 Cable, or
32	QH42P(Input), QX41Y41P (Input)	XW2R-G32GD-M1-COM: 1 pcs	XW2Z-DBF-L: 1 Cable Connection B
	LX41C4		XW2Z-DAA: 4 Cables
64	QX42, QX42-S1, QX82, QX82-S1	XW2R-G32GD-M1-COM: 2 pcs	Connection A XW2Z-00B: 2 Cables, or XW2Z-00BF-L: 2 Cables
04	LX42C4		Connection B XW2Z-OCAA: 8 Cables

* \square \square is replaced by the cable length.

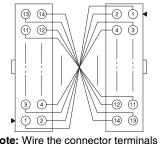
Note: Refer to page 13 for information on the XW2Z-DB and XW2Z-DBF-L.

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

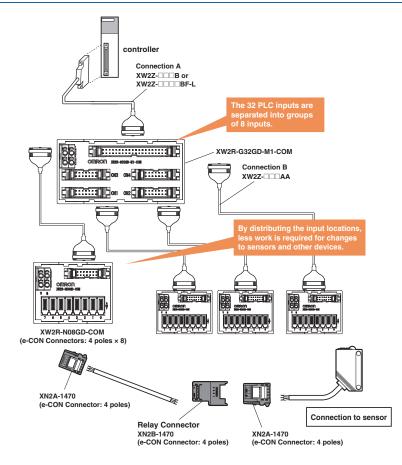
		M ² 11 1 1 1 1
Appearance	Cable length L (m)	With shield
	• • • • • • • • • • • • • • • • • • •	Model
	0.5	XW2Z-050AA
	1	XW2Z-100AA
	2	XW2Z-200AA
and the second s	5	XW2Z-500AA
	10	XW2Z-010AA
Cable length L (m)		

Wiring Diagram



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

Connection Examples



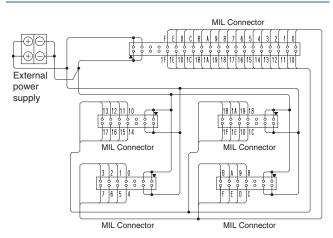
Ordering Information

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

Ratings and Specifications

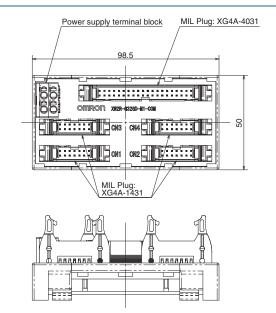
Rated current		Power supply terminal block: 8A Connectors: 1A
Rated voltage		24VDC
Insuration re	esistance	100MΩ min. (at 500VDC)
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature		0 to 55°C
Applicable wire sizes		AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded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

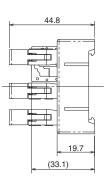
Wiring Diagram



Dimensions

(Unit: mm)





Ordering Information

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

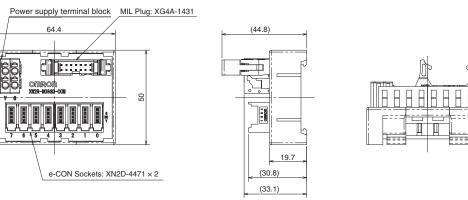
Ratings and Specifications

Rated current		Power supply terminal block: 2A Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)
Rated volta	ge	24VDC
Insuration resistance		100MΩ min. (at 500VDC)
Dielectric s	trength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating 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 a	applicable range for	the power supply terminal block. For the applicable

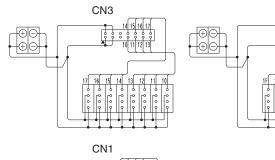
This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 27.

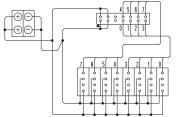
Refer to page 27 for the recommended e-CON Connectors.

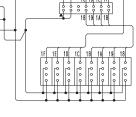
Dimensions



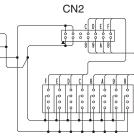
The e-CON address assignments are for combining the XW2R-G32GD-M1-COM with four XW2R-N08GD-COM.



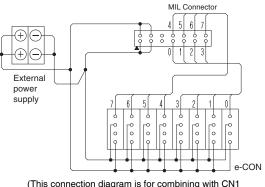




CN4



Wiring Diagram



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

(Unit: mm)

Push-in spring

Ordering Information

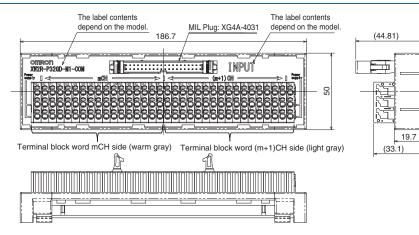
Appearance	I/O Points	Input/Output	Model
	Input	XW2R-P32GD-M1-COM	
	32 points	Output	XW2R-P32GD-M2-COM

Ratings and Specifications

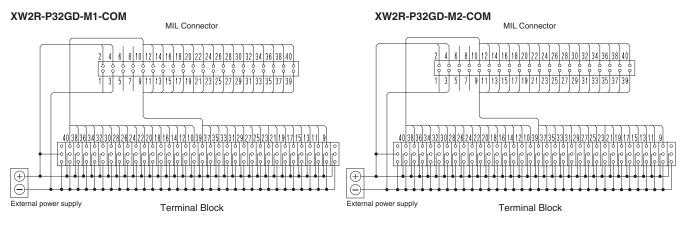
Rated current		1 A/signal, 8 A/common
Rated voltage		24VDC
Insurat	tion resistance	100MΩ min. (at 500VDC)
Dielect	tric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature		0 to 55°C
Appli cable		AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter 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. Ferrule Dimensions 			Square ferrules B 8-10 mm Round ferrules Dia. C 8-10 mm
Square	Square Dimension A (Width)		The cross-sectional
ferrules	ferrules Dimension B (Height) 2 mm max. area after crimping must 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

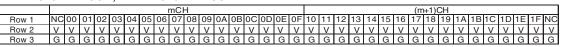


Wiring Diagram

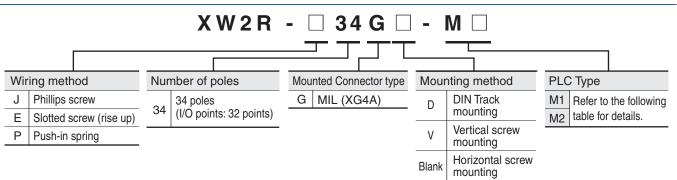


Label Contents

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



Model List



Models for Connection to Mitsubishi PLCs

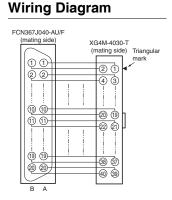
PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs *1	Connecting cables *2
		LX41C4		
		QX41/QX41-S1/QX41-S2		
		QX71		
	32	RX41C4	XW2R-□34GD-M1: 1 pcs	XW2Z-DB: 1 Cable, or XW2Z-DBF-L: 1 Cable
		QH42P (Input)		
M1		QX41Y41P (Input)		
		RH42C4NT2P (Input)		
		LX42C4		
	64	QX42/QX42-S1		XW2Z-DDB: 2 Cables, or
	04	QX82/QX82-S1	— XW2R-□34GD-M1: 2 pcs	XW2Z-
		RX42C4		
		LY41NT1P		XW2Z-DB: 1 Cable, or XW2Z-DBF-L: 1 Cable
		QY41P		
		QY71		
	32	RY41NT2P		
	32	RY41PT1P	— XW2R-□34GD-M2: 1 pcs	
		QH42P (Output)		
M2		QX41Y41P (Output)		
		RH42C4NT2P (Output)		
		LY42NT1P		
		QY42P	1	
	64	QY82P	XW2R-D34GD-M2: 2 pcs	XW2Z-DB: 2 Cables, or XW2Z-DBF-L: 1 Cable
		RY42NT2P		
		RY42PT1P		

***1** Replace the box (\Box) with the wiring method code (J, E, or P).

*2 D is replaced by the cable length.

XW2Z-DDB, XW2Z-DDBF-L Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Cable length L (m)		
5(,	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	
	1 1.5 2 3 5 7 10 15	1 XW2Z-100B 1.5 XW2Z-150B 2 XW2Z-200B 3 XW2Z-300B 5 XW2Z-500B 7 XW2Z-700B 10 XW2Z-010B 15 XW2Z-15MB



(Unit: mm)

Models for Connection to Mitsubishi PLCs without power supply terminals

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *
REED	32 (34)	XW2R-J34GD-M1
Constanting of the local division of the loc	32 (34)	XW2R-J34GD-M2

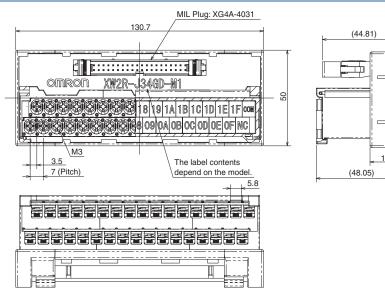
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

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

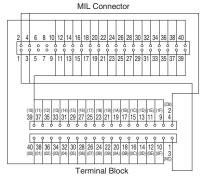
Details on Crimp Terminals Wiring Terminal Blocks Round crimp terminals 3,2 mm dia. • Using Crimp Terminals (With a Terminal τó) 5.8 mm max Block with M3 Screws) **Terminal Screw Tightening Torque** Forked crimp terminals • Use a tightening torque of 0.5 N·m when (3.2 mm 1 5.8 mm max connecting wires or crimp terminals to the terminal block. Applicable crimp terminals Applicable wires 1.25-3 AWG 22 to 16 (0.30 to 1.25 mm²) Round crimp terminals Forked crimp terminals 1.25Y-3 AWG 22 to 16 (0.30 to 1.25 mm²)

Dimensions



Wiring Diagram

XW2R-J34GD-M1



Label Contents

XW2R-J34GD-M1

101112131415161718191A1B1C1D1E1Fcom 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 Downloaded from Arrow.com.

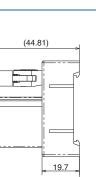
XW2R-J34GD-M2

101112131415161718191A1B1C1D1E1F+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 0 V

18 16 14 12

TTTT

Terminal Block



XW2R-J34GD-M2 MIL Connector

2

(Unit: mm)

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
	32 (34)	XW2R-E34GD-M2

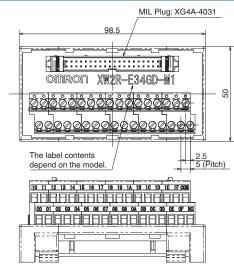
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated current		0.5 A/signal, 2 A/common
Rated voltage		24VDC
Insuration resistance		100MΩ min. (at 500VDC)
Dielectri	ic strength	500VAC for 1 min
Dielecti	ic suengui	(leakage current: 1 mA max.)
Ambient operating temperature		0 to 55°C
A	Applicable wire	AWG 22 to 16 (ferrules)
Applic 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 erminals	Applicable wires	Round rod Dia.		
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)	8-10 mm		
nuu	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)	W 8-10 mm		

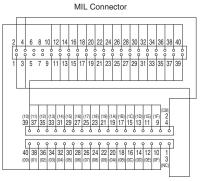
Dimensions





Wiring Diagram

XW2R-E34GD-M1



Terminal Block

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

XW2R-E34GD-M2

8 10

000

MIL Connector

Terminal Block

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 0 V

Push-in spring

Ordering Information

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

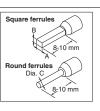
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated curre	ent	0.5 A/signal, 2 A/common
Rated volta	ge	24VDC
Insuration I	resistance	100MΩ min. (at 500VDC)
Dielectric s	trongth	500VAC for 1 min
Dielectrics	uengui	(leakage current: 1 mA max.)
Ambient op temperatur	-	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.

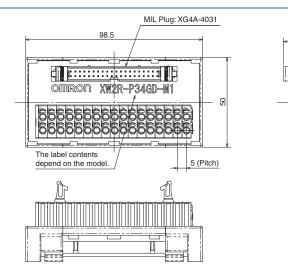


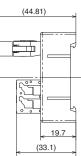
Ferrule Dimensions

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

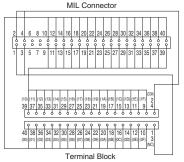




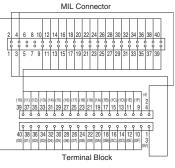


Wiring Diagram

XW2R-P34GD-M1



XW2R-P34GD-M2



Label Contents

XW2R-P34GD-M1

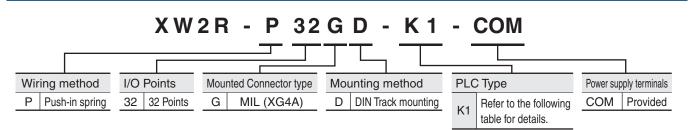
1 0 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 A 1 B 1 C 1 D 1 E 1 F com 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 A 0 B 0 C 0 D 0 E 0 F N C

XW2R-P34GD-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 0 V

Models for Keyence PLCs with power supply terminals

Model List



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	KV-C32XA, KV-C32XC	XW2R-P32GD-K1-COM:1 pcs	XW2Z-DEE: 1 Cable, or XW2Z-DEE-L: 1 Cable
Input	64	Model	KV-C64XA, KV-C64XB, KV-C64XC	XW2R-P32GD-K1-COM:2 pcs	XW2Z-DEE: 2 Cables, or XW2Z-DEE-L: 2 Cables

* \square \square 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-Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

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

XG4M-3430-T XG4M-3430-T (mating side) (mating side) 33 34 -2 1 -4 3 32-31

Triangular mark

Wiring Diagram



9 4 Ō

2

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

-32 31

34 33



Models for Keyence PLCs with power supply terminals

Push-in spring

Ordering Information



32

I/O Points

XW2R-P32GD-K1-COM

Model

Ratings and Specifications

Rated curre	ent	1 A/signal, 8 A/common
Rated volta	ge	24VDC
Insuration r	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 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

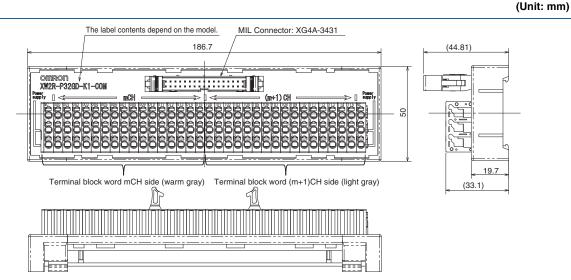
Details on Crimp Terminals Square ferrules **Applicable Ferrules** · Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection maynot be possible or it may not be possible to insert or remove the posts. 8-10 Ferrule Dimensions Dimension A 2.7 mm max. The cross-sectional area (Width) Square after crimping must be ferrules **Dimension B** 2 mm max. 4.8 mm² or less (Height) Round Dimension C

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

(Diameter)

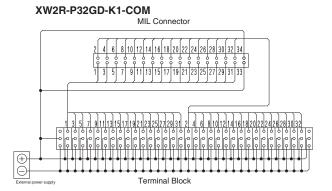
2 mm dia. max. (after crimping)

Dimensions



ferrules

Wiring Diagram



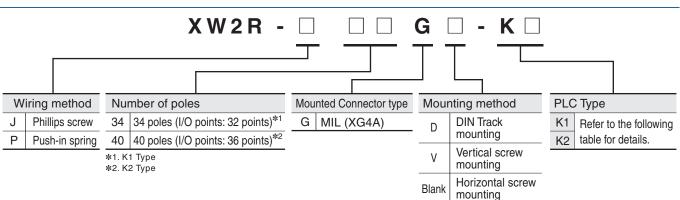
Label Contents

XW2R-P32GD-K1-COM

								mCH																(r	n+1)(СН							
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	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 Keyence PLCs without power supply terminals

Model List



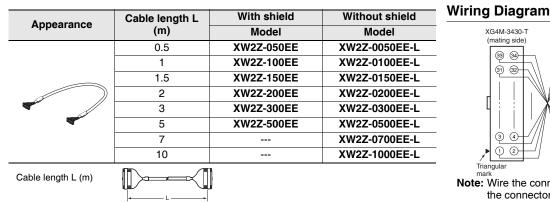
Models for Keyence PLCs

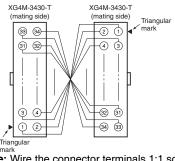
I/O	I/O Points	Unit	Models for Keyence PLCs	Models that connect to PLCs *1	Connecting cables *2		
Input			KV-C32XA, KV-C32XC				
Output	32		KV-C32TA, KV-C32TC, KV-C32TCP	XW2R-□34GD-K1: 1 pcs	XW2Z-DDEE: 1 Cable, or		
Output	52	I/O Unit	KV-C32TD	XW2R-D34GD-K1. 1 pcs	XW2Z-		
I/O		Model	Model KV-C32XTD				
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	XW2R34GD-K1. 2 pcs	XW2Z-		
		CPU Unit Model	KV-1000, KV-3000, KV-5000, KV-5500	XW2R-□40GD-K2: 1 pcs	XW2Z-DCK: 1 Cable, or XW2Z-CCFF-L: 1 Cable		

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

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

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



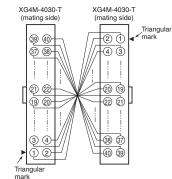


Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

XW2Z-DDK, XW2Z-DDDFF-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.

Forked crimp terminals

3.2 mm \$ 5.8 mm max

(Unit: mm)

Models for Keyence PLCs without power supply terminals

Phillips screw

Ordering Information

Appearance	I/O Points (Number of poles)	Model *	Dimension A (mm)
Barry	32 (34)	XW2R-J34GD-K1	130.7
and the second second	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

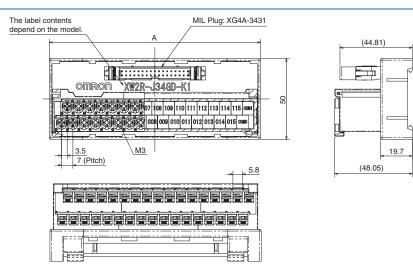
Details on Crimp Terminals Wiring Terminal Blocks • Using Crimp Terminals (With a Terminal Block with M3 Screws) Terminal Screws

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



MIL Connector

1113115117119121

14 16 18 20 22 24 26 28 30 32 34 36 38 40

23 25 27 29 31 33 35 3

Wiring Diagram

SU2R-J34GD-KI ML Connector $\frac{4}{2} \underbrace{4}_{0} \underbrace{6}_{0} \underbrace{10}_{1} \underbrace{12}_{1} \underbrace{14}_{1} \underbrace{16}_{1} \underbrace{18}_{2} \underbrace{0}_{2} \underbrace{2}_{2} \underbrace{24}_{2} \underbrace{6}_{2} \underbrace{8}_{3} \underbrace{3}_{2} \underbrace{24}_{3} \underbrace{4}_{0} \underbrace{5}_{0} \underbrace{5}_{0} \underbrace{7}_{0} \underbrace{9}_{1} \underbrace{13}_{1} \underbrace{15}_{1} \underbrace{17}_{1} \underbrace{19}_{2} \underbrace{2}_{1} \underbrace{2}_{2} \underbrace{5}_{2} \underbrace{2}_{2} \underbrace{9}_{1} \underbrace{3}_{3} \underbrace{3}_{2} \underbrace{3}_{1} \underbrace{4}_{0} \underbrace{6}_{0} \underbrace{8}_{0} \underbrace{10}_{1} \underbrace{12}_{1} \underbrace{16}_{1} \underbrace{18}_{2} \underbrace{2}_{2} \underbrace{2}_{2} \underbrace{2}_{0} \underbrace{2}_{0} \underbrace{2}_{0} \underbrace{3}_{0} \underbrace{3}_{2} \underbrace{3}_{2} \underbrace{4}_{0} \underbrace{4}_{0} \underbrace{8}_{0} \underbrace{10}_{1} \underbrace{12}_{1} \underbrace{14}_{1} \underbrace{16}_{1} \underbrace{18}_{2} \underbrace{2}_{2} \underbrace{2}_{2} \underbrace{2}_{0} \underbrace{2}_{0} \underbrace{2}_{0} \underbrace{3}_{0} \underbrace{3}_{2} \underbrace{3}_{2} \underbrace{4}_{0} \underbrace{4}_{0} \underbrace{8}_{0} \underbrace{10}_{1} \underbrace{12}_{1} \underbrace{14}_{1} \underbrace{16}_{1} \underbrace{18}_{2} \underbrace{2}_{1} \underbrace{2}_{1} \underbrace{2}_{1} \underbrace{2}_{1} \underbrace{2}_{1} \underbrace{3}_{0} \underbrace{2}_{1} \underbrace{3}_{1} \underbrace{3}_{1} \underbrace{3}_{1} \underbrace{3}_{1} \underbrace{4}_{0} \underbrace{6}_{1} \underbrace{12}_{1} \underbrace{$

Label Contents

XW2R-J34GD-K1

100101102103104105106107108109110111112113114115cow1 000001002003004005006007008009010011012013014015cow0

XW2R-J40GD-K2

Terminal Block

XW2R-J40GD-K2

 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40

 1
 2
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 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20

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

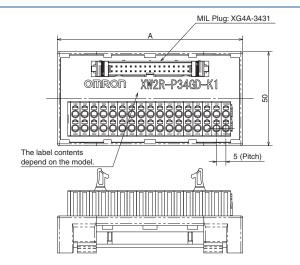
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

Ratings and Specifications

Rated of	current	1A
Rated v	voltage	AC/ DC125V
Insurati	ion resistance	100MΩ min. (at 500VDC)
Dielect	ric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature		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 Square ferrules **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 Dimension A (Width) 2.7 mm max. The cross-sectional Square area after crimping must ferrules **Dimension B (Height)** 2 mm max. be 4.8 mm² or less Round Dimension C 2 mm dia. max. (after crimping) ferrules (Diameter) Refer to page 28 for information on Square/Round ferrule and use tool.

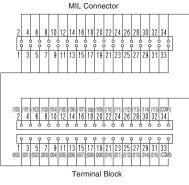
Dimensions



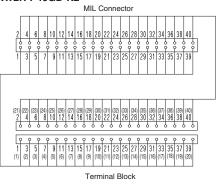


Wiring Diagram

XW2R-P34GD-K1



XW2R-P40GD-K2



Label Contents

XW2R-P34GD-K1

1 0 0 1 0 1 1 0 2 1 0 3 1 0 4 1 0 5 1 0 6 1 0 7 1 0 8 1 0 9 1 1 0 1 1 1 1 1 2 1 1 3 1 1 4 1 1 5 cow1 0 0 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6 0 0 7 0 8 0 9 0 0 1 0 0 1 1 0 1 2 0 1 3 0 1 4 0 1 5 cow1

XW2R-P40GD-K2

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

Downloaded from Arrow.com.

(Unit: mm)

Input Device Connectors: XN2 e-CON Connectors

Ordering Information

For Sensor			Relay Connector					
Appearance	Number of poles	Model	Appearance	Number of poles	Model			
Para and Andrews	4	XN2A-1470	ALL	4	XN2B-1470			

Ratings and Specifications

Rated current	3 A/pin (with AWG20 wires), 2 A/pin (with AWG22 wires), 1 A/pin (with AWG24 wires), 0.5 A/pin (with AWG26 or AWG28 wires)
Rated voltage	32 VDC
Contact resistance	30 mΩ max. (at 20 mV, 100 mA max.)
Insuration resistance	10 ³ 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	Stranded wire 0.08mm ² (AWG28) to 0.5mm ² (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.

STRIP GAUGE

7-8 mm

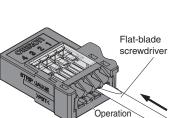
Wiring Procedure

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.

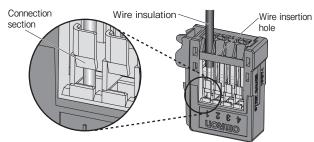
Connection Procedure

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

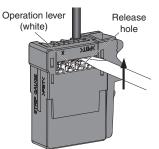


hole

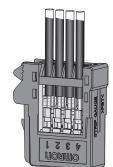
2. Insert the wire all the way into the wire insertion hole. Confirm that the insulation on the wire also enters the wire insertion hole and that the end of the wire has passed through the connection section.



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

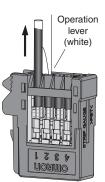


- 4. Finally, check the following items.
- Make sure the operation lever has been reset.
- Check the items given in step 2 again. (Pull lightly on the wire to see if it is held firmly in place.)



Disconnection Procedure

- 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 too	
		AWG24	AI0.25-8		
		AWG22	AI0.34-8TQ		
	Phoenix Contact	AWG20	AI0.5-10WH AI0.5-8WH	ODIMEOVE	
	Phoenix Contact	AWG18	AI0.75-10GY AI0.75-8GY	- CRIMFOX6	
		AWG16	AI1.5-10BK		
Square ferrule		AWG14	AI2.5-8BU	_	
		AWG24	H0.25/12		
		AWG22	H0.34/12		
	Weidmuller	AWG20	H0.5/14	PZ6 roto	
		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"
2	XW2R-J□□	9 mm
	XW2R-E	7 mm
	XW2B-P	AWG28-16: 8 to 10 mm
		AWG14: 9 to 10 mm

Mounting Units to and Removing Units from DIN Track

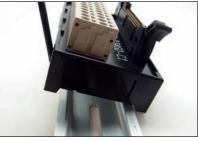
Mounting Procedure



1. Hook the Unit on the DIN Track.

2. Press the Unit onto the DIN Track to secure it.

Removal Procedure



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

28

Connecting Spring cramp Terminals

Using Ferrules How to insert wire



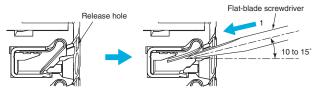
Using Stripped Wires Inserting and Removing Wires



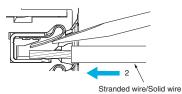
Inserting Wires

1. Press the a flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°.

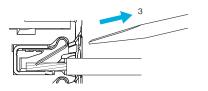
If you press in the screwdriver correctly, you will feel the spring in the release hole.



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.



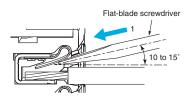
How to release wire



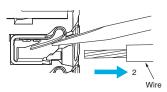
release hole and pull out the ferrule.

Removing Wires

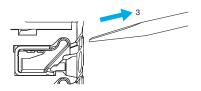
1. Press the flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



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

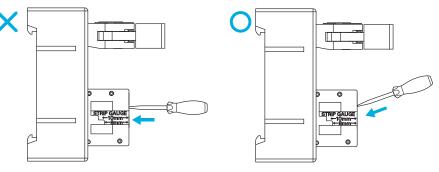


3. Remove the flat-blade screwdriver from the release hole.

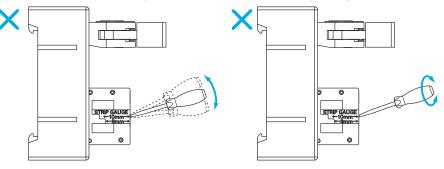


Precautions for Safe Use

• 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		Head of screwdriver Is 0.4 x 2.5mm max.		

Flat-blade screwdriver

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Bending Radius of Connecting Cables

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

XW2Z - 🗆 🗆 🗆 🗆		
	End of model number	Minimum bending radius
	BF-L, EE-L, FF-L	66 mm
	А	67.2 mm
	EE	83 mm
	B, D, K, L, N	88 mm

For checking electrical continuity

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

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