

Models for Connection to OMRON PLCs without power supply terminals

Model List

XW2R - 34 G - C										
Wiring method			Number of poles		Mounted Connector type		Mounting method		PLC type	
J	Phillips screw	34	34 poles (I/O points: 32 points)	G	MIL (XG4A)	D	DIN Track mounting	C1	Refer to the following table for details.	
E	Slotted screw (rise up)					V	Vertical screw mounting	C2		
P	Push-in spring					Blank	Horizontal screw mounting	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

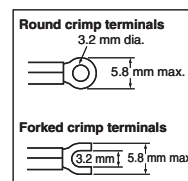
Details on Crimp Terminals

Wiring Terminal Blocks

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

Terminal Screw Tightening Torque

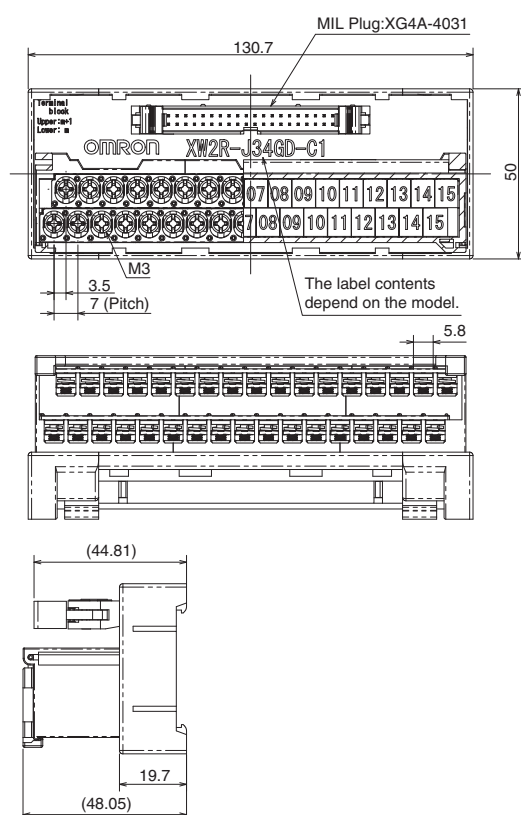
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



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

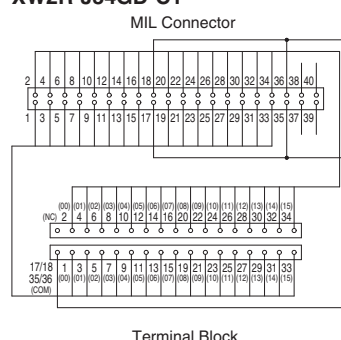
Dimensions

(Unit: mm)

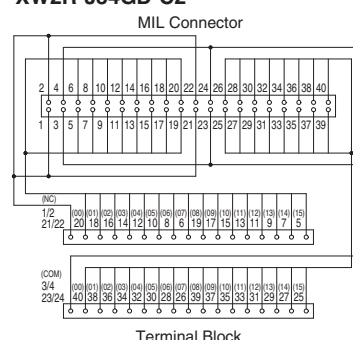


Wiring Diagram

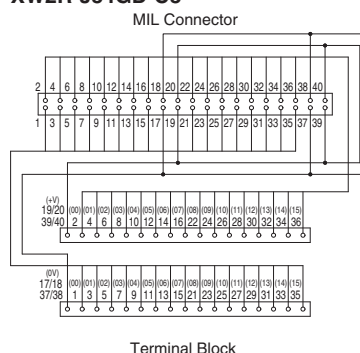
XW2R-J34GD-C1



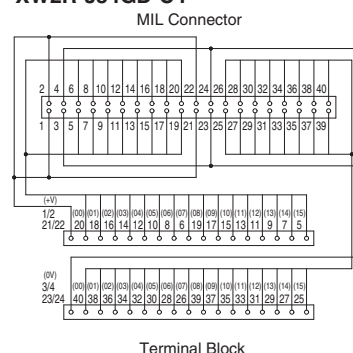
XW2R-J34GD-C2



XW2R-J34GD-C3



XW2R-J34GD-C4



Label Contents

XW2R-J34GD-C1, XW2R-J34GD-C2

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

XW2R-J34GD-C3, XW2R-J34GD-C4

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

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

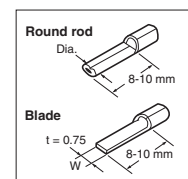
* Only DIN Track mounting models are described here. Refer to the XW2R-series Connector-Terminal Block Conversion Units Catalog (Cat. No. G077) for information on screw mounting models.

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
Appli cable 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

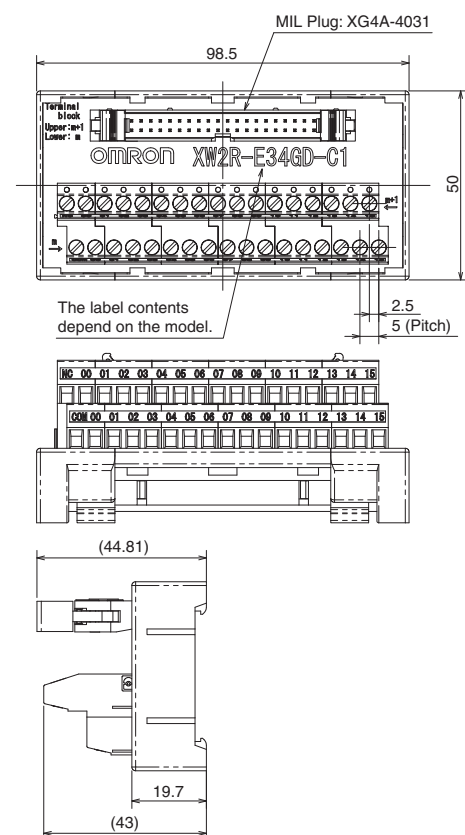
Applicable crimp terminals		Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm ²)
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm ²)



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

Dimensions

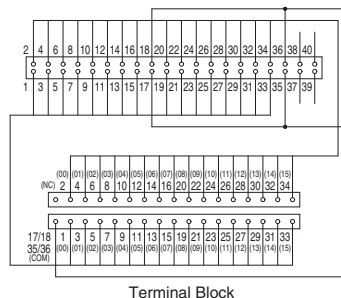
(Unit: mm)



Wiring Diagram

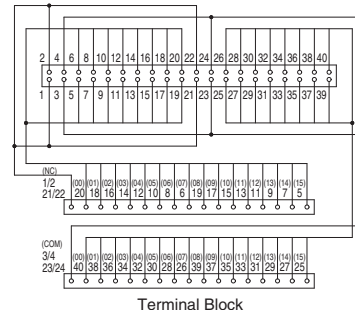
XW2R-E34GD-C1

MIL Connector



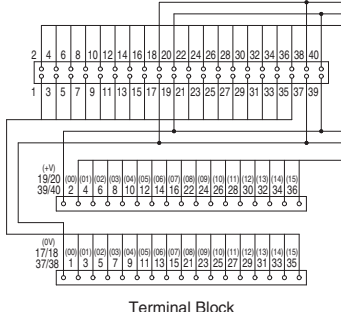
XW2R-E34GD-C2

MIL Connector



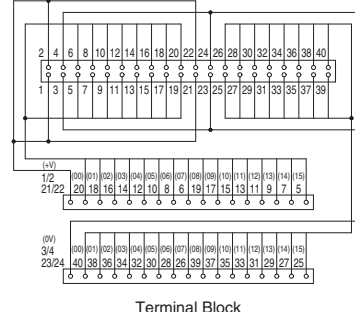
XW2R-E34GD-C3

MIL Connector



XW2R-E34GD-C4

MIL Connector



Label Contents

XW2R-E34GD-C1, XW2R-E34GD-C2

N	C	0	0	1	0	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9	1	0	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	2	1	3	1	4	1	5

XW2R-E34GD-C3, XW2R-E34GD-C4

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

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.

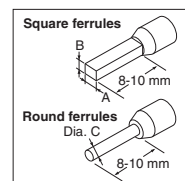
Ratings and Specifications

Rated current		0.5 A/signal, 4 A/common
Rated voltage		24VDC
Insulation 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 may not be possible or it may not be possible to insert or remove the posts.



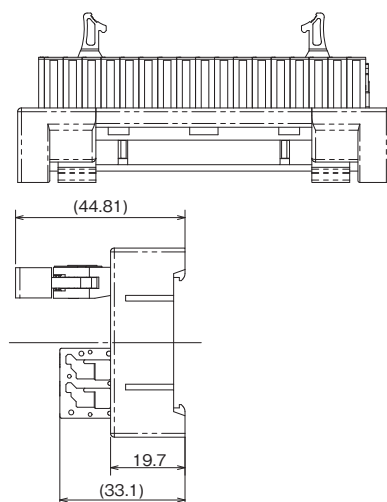
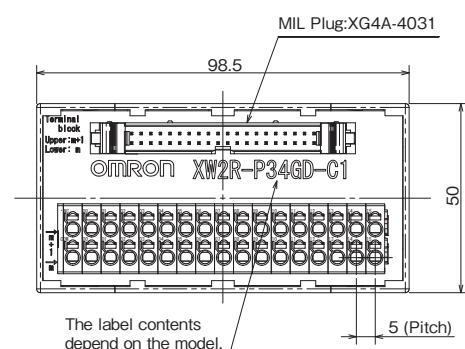
Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm ² 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

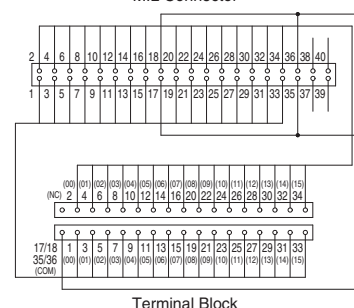
(Unit: mm)



Wiring Diagram

XW2R-P34GD-C1

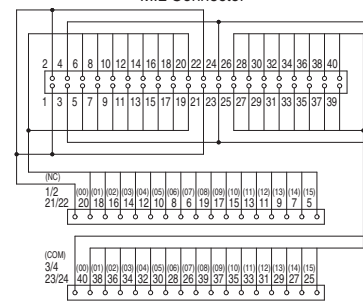
MIL Connector



Terminal Block

XW2R-P34GD-C2

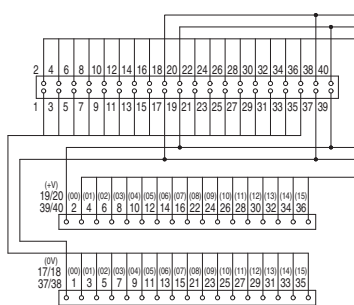
MIL Connector



Terminal Block

XW2R-P34GD-C3

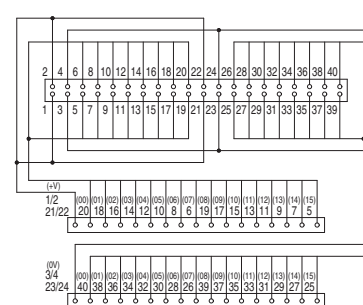
MIL Connector



Terminal Block

XW2R-P34GD-C4

MIL Connector



Terminal Block

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