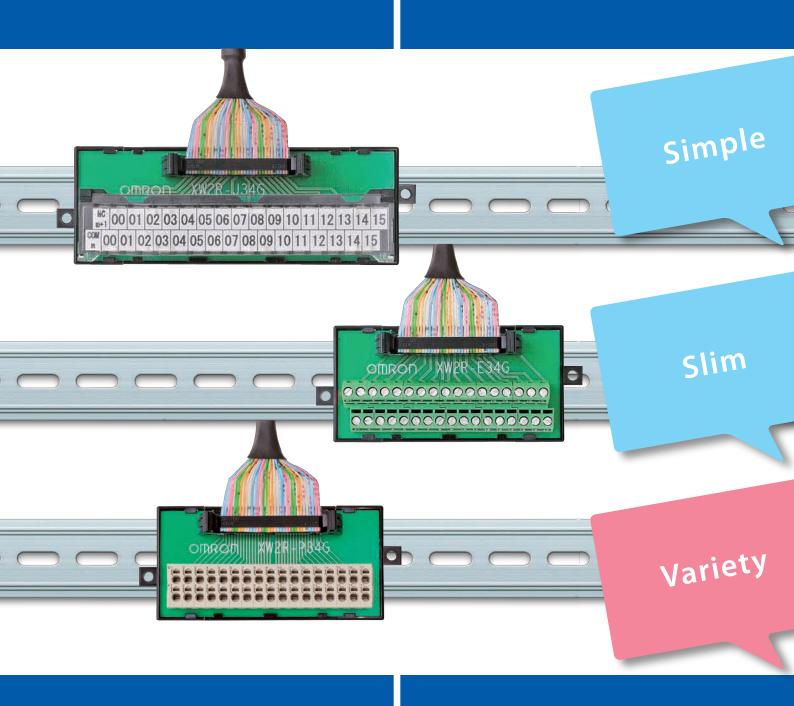


OMRON

Connecting to

Controllers...



...Is Now

Even Smarter

XW2R Series



Product Lineup

PLCs Type Specialized wiring pattern Minimized size with **Features** for PLC required number of poles **Connection on Slotted screw** Phillips screw **Push-in spring** process side (rise up) For OMRON XW2R-J34G-C□ XW2R-E34G-C□ XW2R-P34G-C PLC Model For Mitsubishi XW2R-J34G-M□ XW2R-E34G-M XW2R-P34G-M PLC **Appearance**

PLC Connecting type

Smart Features

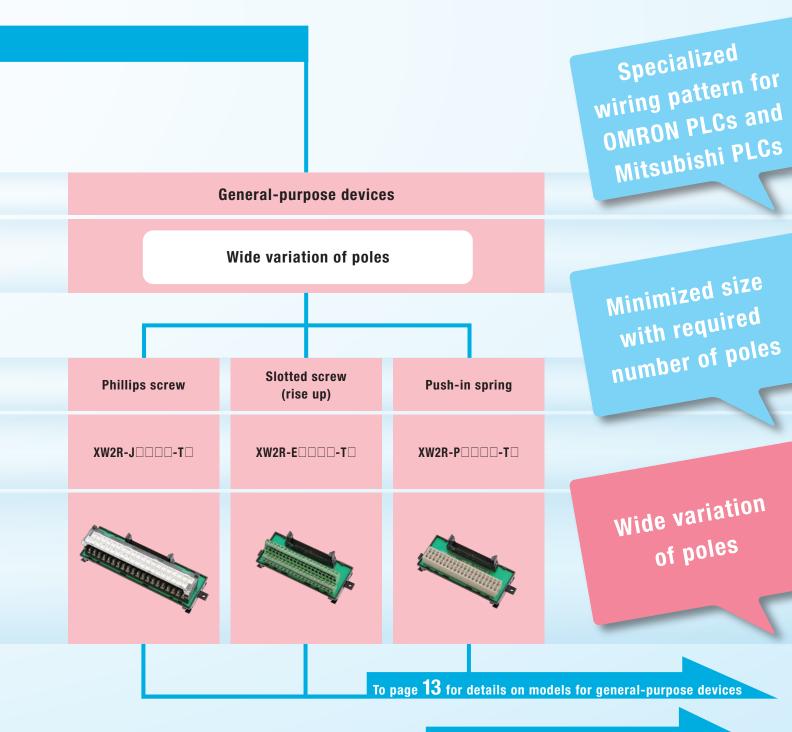
Wiring patterns that are specifically designed for PLCs reduce the work required to check signal layout.

Terminal block signal labels give the PLC addresses.

General-purpose devices	
For PLCs from OMRON	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
For PLCs from Mitsubishi	10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F cow 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F NC

General-purpose devices

 More model variations are scheduled for future development, such as models with MR, or MDR connectors in addition to the current models with MIL, FCN connectors.



To page 4 for details on models for OMRON PLCs

To page 9 for details on models for Mitsubishi PLCs

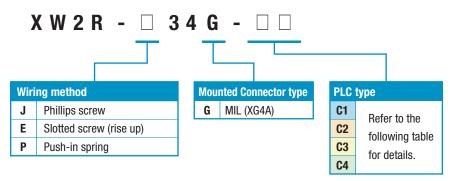
All Models

- Push-in terminals simplify wiring and make the Terminal Blocks even easier to use.(In comparison to the OMRON XW2F.)
- The terminal arrangement enables smoother wiring work.
- . Mount to DIN Track or with screws.
- Common design that can also be customized.
- The ribs for screw mounting are positioned within the DIN Track so that they do not interfere
 with DIN Track mounting parts or End Plates. Even when connecting XW2R Units to each other,
 the ribs do not interfere so there is no gap between the Units.



Models for Connection to OMRON PLCs

Model List



Models for OMRON PLCs

PLC Type	1/0	I/O Points	I/O Unit Model	Connecting cables
			CJ1W-ID231	
			CS1W-ID231	
			C200H-ID216	
		32	C200H-ID218	
			CQM1-ID112	
			CQM1-ID213	
			CQM1-ID214	
	Input		CJ1W-ID261	
C1			CS1W-ID261	XW2Z-□□□B
			C200H-ID217	32-point Unit: 1 Cable
		64	C200H-ID219	64-point Unit: 2 Cables
			C200H-ID111	
			C500-ID114	
			C500-ID219	
			CJ1W-MD261 (inputs)	
			CS1W-MD261 (inputs)	
	1/0	32	CS1W-MD262 (inputs)	
			CS1W-MD561 (inputs)	
			CJ1W-ID232	
	Input	32	CJ1W-ID233	XW2Z-□□□K
C2		64	CJ1W-ID262	32-point Unit: 1 Cable
			CJ1W-MD263 (inputs)	64-point Unit: 2 Cables
	1/0	32	CJ1W-MD563 (inputs)	
			CJ1W-0D231	
			CS1W-0D231	
		32	CS1W-0D232	
			C200H-0D218	
			CQM1-0D213	
	Output		CJ1W-0D261	
			CS1W-0D261	XW2Z-□□□B
C3		64	CS1W-0D262	32-point Unit: 1 Cable
			C200H-0D219	64-point Unit: 2 Cables
			C500-0D213	
			CJ1W-MD261 (outputs)	
			CS1W-MD261 (outputs)	
	1/0	32	CS1W-MD262 (outputs)	
			CS1W-MD561 (outputs)	
			CJ1W-0D232	
		32	CJ1W-0D233	
	Output		CJ1W-0D234	XW2Z-□□□K
C4			CJ1W-0D262	32-point Unit: 1 Cable
		64	CJ1W-0D263	64-point Unit: 2 Cables
			CJ1W-MD263 (outputs)	
	1/0	32	CJ1W-MD563 (outputs)	

^{*}Connection is not possible to all OMRON PLC Units.

 $^{^\}star\Box\,\Box\,\Box$ is replaced by the cable length.

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

^{*}Refer to page 16-17 for information on Connecting Cables.

Models for Connection to OMRON PLCs

Connection Examples

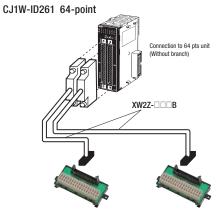
■ 32-point Input Unit or Output Unit



■ 64-point Output Unit
CJ1W-MD563 IN 32 Points,OUT 32 Points



■ 64-point Input Unit or Output Unit



Phillips screw

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-J34G-C1	130.7	140.2
Marie Control	32 (34)	XW2R-J34G-C2	130.7	140.2
The state of the s	32 (34)	XW2R-J34G-C3	130.7	140.2
*	32 (34)	XW2R-J34G-C4	130.7	140.2

Ratings and Specifications

Rated curren	t	0.5A/signal,4A/common					
Rated voltage		24VDC					
Insuration resistance		100MΩ min.(at 500VDC)					
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.)					
Ambient ope	rating temperature	0 to 55					
Applicable	Applicable wire sizes	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (twisted or solid wires)					
wires	Stripped length	9 mm					
	Tightening	0.5 N·m					

Details on Crimp Terminals

Wiring Terminal Blocks

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

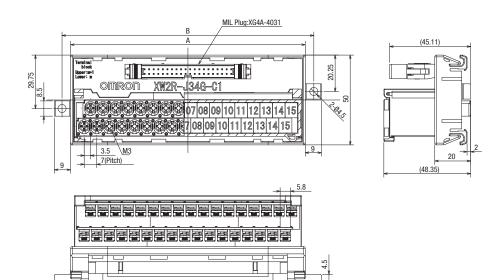
● Terminal Screw Tightening Torque
Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

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

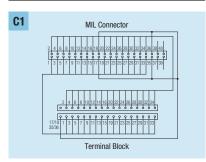


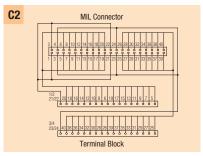
Dimensions

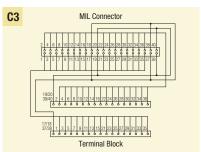
(Unit:mm)

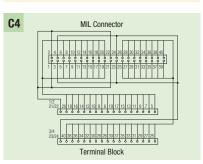


Wiring Diagram









Label Contents



For C3 and C4

Slotted screw (rise up)

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
~ 4	32 (34)	XW2R-E34G-C1	98.5	108
	32 (34)	XW2R-E34G-C2	98.5	108
-	32 (34)	XW2R-E34G-C3	98.5	108
	32 (34)	XW2R-E34G-C4	98.5	108

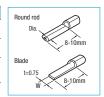
Ratings and Specifications

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

Details on Crimp Terminals

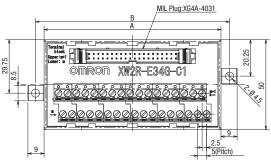
Applicable cr	imp terminals	Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm ²)
HUU		AWG22 to AWG16 (0.30 to 1.25 mm ²)
Blade	BT1.25-10-1	AWG22 to AWG16 (0.30 to 1.25 mm²)



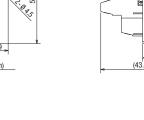


Dimensions

(Unit:mm)

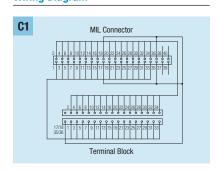


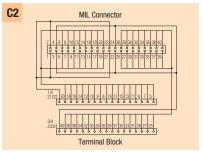
80 00 01 02 00 04 05 04 07 08 00 10 11 12 13 14 18 608(00 01 02 00 04 05 00 07 08 00 10 11 12 13 14 18

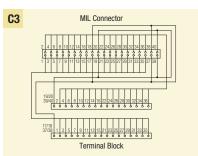


(45.11)

Wiring Diagram

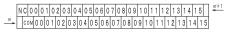






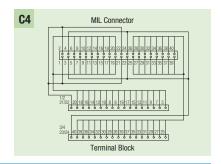
Label Contents







 $\stackrel{+ \text{ V} | \text{ 0} |$



Push-in spring

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
~	32 (34)	XW2R-P34G-C1	98.5	108
	32 (34)	XW2R-P34G-C2	98.5	108
-	32 (34)	XW2R-P34G-C3	98.5	108
	32 (34)	XW2R-P34G-C4	98.5	108

Ratings and Specifications

Rated curren	t	0.5A/signal,4A/common				
Rated voltage	e	24VDC				
Insuration resistance		100MΩ min.(at 500VDC)				
Dielectric strength		500VAC for 1 min				
Ambient ope	rating temperature	0 to 55				
Applicable	Applicable wire sizes	AWG 24 to 14 (rod terminals),AWG 28 to 14 (twisted or solid wires)(Outer diameter of insulation must be 4 mm max)				
wires	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm				

Details on Crimp Terminals

Applicable Ferrules

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

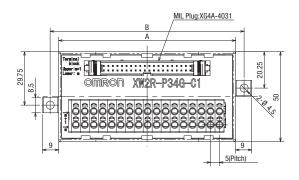
	Dimension A (Width)		The cross-sectional area after
oquale lettules	Dimension B (Height)	2 mm max.	crimping must be 4.8 mm² or less
Round ferrules	Dimension C (Diameter)	2 mm dia. ma	ax. (after crimping)

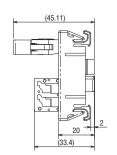
Refer to page 19 for information on Square/Round rods terminal and use tool.

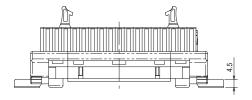


Dimensions

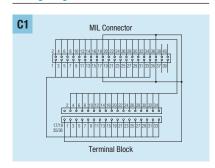
(Unit:mm)

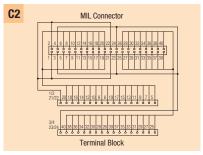


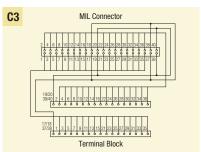


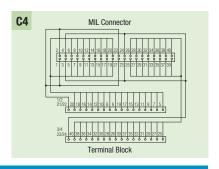


Wiring Diagram









Label Contents

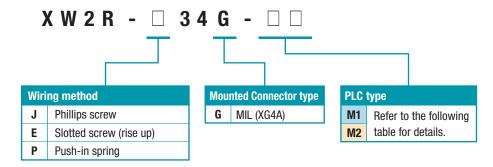






				0 2													
1 	0 V	0 0	0 1	02	03	0 4	0 5	0 6	07	0 8	09	10	11	12	13	1 4	1 5

Model List



Models for Connection to Mitsubishi PLCs

PLC Type	I/O Points	Mitsubishi PLC Module model	Connecting cables
		LX41C4	
		QX41	
		QX41-S1	
		QX41-S2	
		QX71	
	32	QH42P (input)	VM07 DDD 1 ashla
	32	QX41Y41P (input)	XW2Z-□□□B: 1 cable
		A1SX41-S1	
		A1SX41-S2	
8.64		A1SX71	
M1		A1SH42 (input)	
		A1SH42-S1 (input)	
		LX42C4	
		QX42	
		QX42-S1	
	64	QX82	XW2Z- \Bigcolo B: 2 cables
	64	QX82-S1	XW2Z-UUUB: 2 capies
		A1SX42-S1	
		A1SX42-S2	
		A1SX82-S	
		LY41NT1P	
		QY41P	
		QY71	
		QH42P (output)	
	32	QY41Y41P (output)	XW2Z-□□□B: 1 cable
		A1SY41-S1	
M2		A1SY41P	
IVIZ		A1SY42P	
		A1SY71	
		A1SH42 (output)	
		A1SH42-S1 (output)	
	64	LY42NT1P	XW2Z-□□□B: 2 cables
		QY42P	
		A1SY42	

 $^{^{\}star}\square\,\square\,\square$ is replaced by the cable length.

^{*}Refer to page 16 for information on Connecting Cables.

Models for Connection to Mitsubishi PLCs

Phillips screw

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
2000	32 (34)	XW2R-J34G-M1	130.7	140.2
	32 (34)	XW2R-J34G-M2	130.7	140.2

Ratings and Specifications

Rated curren	t	0.5A/signal,2A/common					
Rated voltag	e	24VDC					
Insuration re	sistance	100MΩ min.(at 500VDC)					
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.					
Ambient ope	rating temperature	0 to 55					
Applicable	Applicable wire sizes	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (twisted or solid wires)					
wires	Stripped length	9 mm					
	Tightening	0.5 N·m					

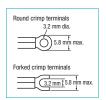
Details on Crimp Terminals

Wiring Terminal Blocks

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

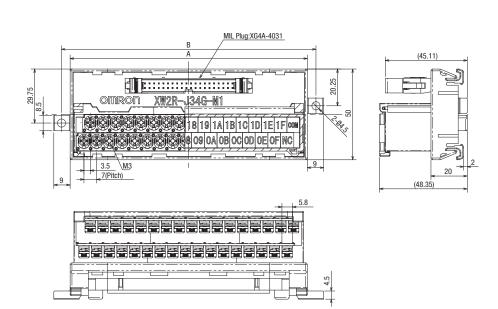
■ Terminal Screw Tightening Torque
Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

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

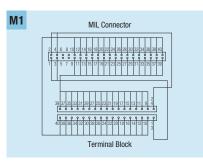


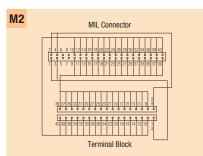
Dimensions

(Unit:mm)



Wiring Diagram





Label Contents



101112131415161718191A1B1C1D1E1Fcom



101112131415161718191A1B1C1D1E1F+V000010102030405060708090A0B0C0D0E0F0V

Models for Connection to Mitsubishi PLCs

Slotted screw (rise up)

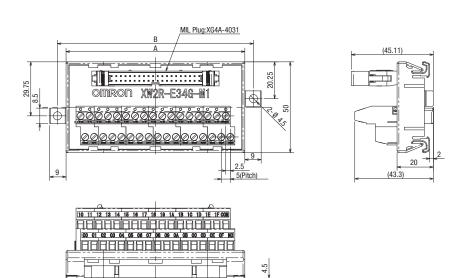
Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-E34G-M1	98.5	108
	32 (34)	XW2R-E34G-M2	98.5	108

Ratings and Specifications

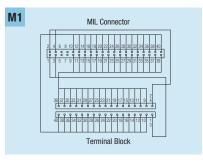
Rated curren	t	0.5A/signal,2A/common						
Rated voltag	e	24VDC						
Insuration resistance		100MΩ min.(at 500VDC)						
Dielectric strength		500VAC for 1 min (leakage current: 1 mA max.						
Ambient ope	rating temperature	0 to 55						
Applicable	Applicable wire sizes	AWG 22 to 16 (rod terminals) AWG 26 to 16 (twisted or solid wires)						
wires	Stripped length	7 mm						
	Tightening	0.5 to 0.6 N·m						

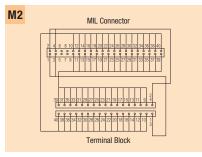
Dimensions





Wiring Diagram





Label Contents

For M1

101112131415161718191A1B1C1D1E1Fcom
000102030405060708090A0B0C0D0E0FNC

For M2

101112131415161718191A1B1C1D1E1F+V

Push-in spring

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-P34G-M1	98.5	108
	32 (34)	XW2R-P34G-M2	98.5	108

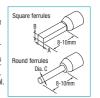
Ratings and Specifications

Rated curren	t	0.5A/signal,2A/common					
Rated voltage	е	24VDC					
Insuration resistance		100MΩ min.(at 500VDC)					
Dielectric strength		500VAC for 1 min					
Ambient ope	rating temperature	0 to 55					
Applicable	Applicable wire sizes	AWG 24 to 14 (rod terminals),AWG 28 to 14 (twisted or solid wires)(Outer diameter of insulation must be 4 mm max)					
wires	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm					

Details on Crimp Terminals

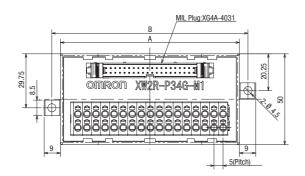
- Applicable Ferrules
- Use ferrules of the lengths and thicknesses specified below.If other lengths or thicknesses are
 used, connection mayorite possible or it may not be possible to insert or remove the posts.
- | Square ferrules | Dimension A (Width) | 2.7mm max. | The cross-sectional area after | Dimension B (Height) | 2 mm max. | crimping must be 4.8 mm² or less | Round ferrules | Dimension C (Diameter) | 2 mm dia. max. (after crimping)

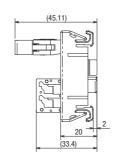
Refer to page 19 for information on Square/Round rods terminal and use tool

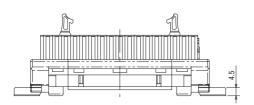


Dimensions

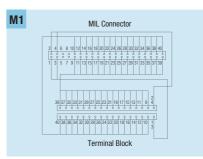
(Unit:mm)

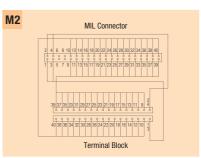






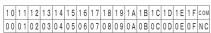
Wiring Diagram





Label Contents

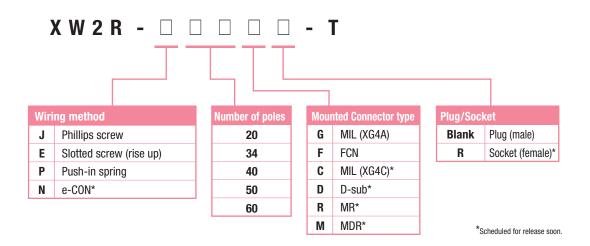
For M1



For M2

10	1	1	12	I	1 3	14	15	16	17	18	19	1 A	1 B	1 C	1 D	1 E	1 F	+٧
00	0	1	0 2	I	03	0 4	0 5	06	07	0.8	09	0 A	0 B	0 C	0 D	0 E	0 F	0 V

Model List



Phillips screw

Appearance*	Mounted C	onnector type	number of poles	Model	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)
		XG4A-2031	20	XW2R-J20G-T	81.7	91.2	45.11
^		XG4A-3431	34	XW2R-J34G-T	130.7	140.2	45.11
MINISTER	MIL Connector	XG4A-4031	40	XW2R-J40G-T	151.7	161.2	45.11
Management .		XG4A-5031	50	XW2R-J50G-T	186.7	196.2	45.11
		XG4A-6031	60	XW2R-J60G-T	221.7	231.2	45.11
	FCN Connector	FCN-364P040-AU	40	XW2R-J40F-T	151.7	161.2	28.4

^{*}Mounted connector of appearance is MIL connector.

Ratings and Specifications

Rated current	1A
Rated voltage	125VAC 24VDC
Insuration resistance	100MΩ min.(at 500VDC)
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature	0 to 55

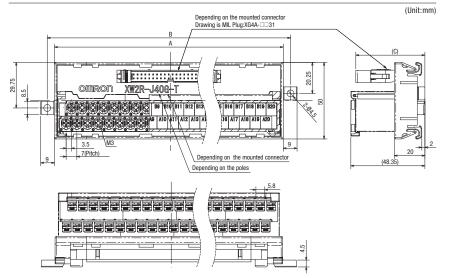
^{*}The details on crimp terminals are the same for the XW2R-J34G on page 6.

Label Contents

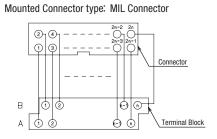
Г	В	1 E	3 2	В	3 B	4	B 5	В6	В	7	3 8	В	9 E	10	B1	1 [B12	B1	3 E	14	B1	5 E	16	B17
1	¥ 1	A 2	Α	3	A 4	Α:	5 A	6	A 7	A 8	A	9	A10	A.	11	A12	2 A	13	A14	A	15	A16	A1	17

^{*}The label contents for a Terminal Block with 34 poles are shown.

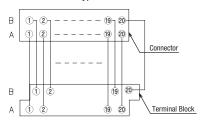
Dimensions



Wiring Diagram



Mounted Connector type: FCN Connector



Slotted screw (rise up)

Appearance*	Mounted Connector type		Mounted Connector type number of poles Model		Dimension A (mm)	Dimension B (mm)	Dimension C (mm)
		XG4A-2031	20	XW2R-E20G-T	64.4	73.9	45.11
	MIL Connector	XG4A-3431	34	XW2R-E34G-T	98.5	108	45.11
		XG4A-4031	40	XW2R-E40G-T	113.5	123	45.11
1		XG4A-5031	50	XW2R-E50G-T	138.5	148	45.11
*		XG4A-6031	60	XW2R-E60G-T	163.5	173	45.11
	FCN Connector	FCN-364P040-AU	40	XW2R-E40F-T	113.5	123	28.4

^{*}Mounted connector of appearance $\,$ is MIL connector.

Ratings and Specifications

Rated current	1A
Rated voltage	125VAC 24VDC
Insuration resistance	100MΩ min.(at 500VDC)
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature	0 to 55

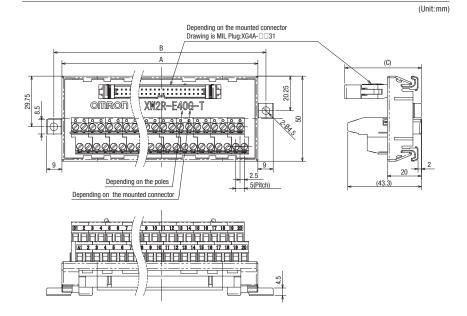
^{*}The details on crimp terminals are the same for the XW2R-E34G on page 7.

Label Contents

B 1	2	(3	4	5	6	7	8	5	9	10	1	1	1	2	1	3	1	4	1	5	1	6	1	7	
Α	1	2	3	4		5	ŝ	7	8	9	1	0	1	1	1	2	1	3	1	4	1	5	1	6	1	7

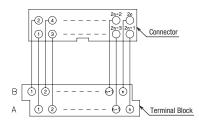
 $^{{}^{\}star}$ The label contents for a Terminal Block with 34 poles are shown.

Dimensions

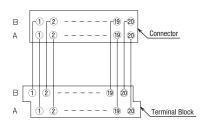


Wiring Diagram

Mounted Connector type: MIL Connector



Mounted Connector type: FCN Connector



Push-in spring

Appearance*	Mounted Connector type		number of poles	Model	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)
	MIL Connector	XG4A-2031	20	XW2R-P20G-T	64.4	73.9	45.11
		XG4A-3431	34	XW2R-P34G-T	98.5	108	45.11
		XG4A-4031	40	XW2R-P40G-T	113.5	123	45.11
-		XG4A-5031	50	XW2R-P50G-T	138.5	148	45.11
•		XG4A-6031	60	XW2R-P60G-T	163.5	173	45.11
	FCN Connector	FCN-364P040-AU	40	XW2R-P40F-T	113.5	123	28.4

^{*}Mounted connector of appearance is MIL connector.

Ratings and Specifications

Rated curren	t	1A					
Rated voltage	е	125VAC 24VDC					
Insuration resistance		100MΩ min.(at 500VDC)					
Dielectric str	ength	500VAC for 1 min (leakage current: 1 mA max.)					
Ambient ope	rating temperature	0 to 55					
Applicable	Applicable wire sizes	AWG 24 to 14 (rod terminals), AWG 28 to 14 (twisted or solic wires) (Outer diameter of insulation must be 4 mm max)					
wires	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm					

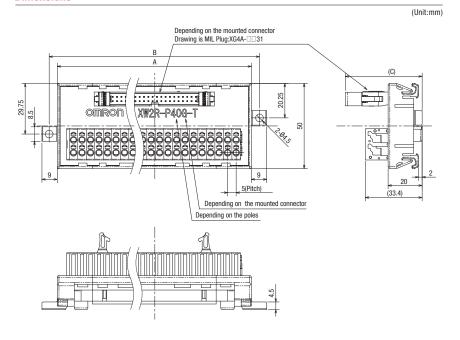
^{*}The details on crimp terminals are the same for the XW2R-P34G on page 8.

Label Contents

В	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Α	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1 5	16	17

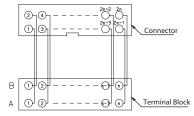
^{*}The label contents for a Terminal Block with 34 poles are shown.

Dimensions

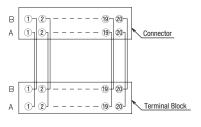


Wiring Diagram

Mounted Connector type: MIL Connector



Mounted Connector type: FCN Connector



XW2Z

Appearance



Ratings and Specifications

Rated current	1A			
Rated voltage	125 VAC 24 VDC			
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.) *1			
Insulation resistance	100 MΩ min. (at 500 VDC)			
Dielectric strength	500 VAC for 1 min (leakage current: 1 mA max.) *2			
Ambient operating temperature	-25 to 80			

^{*1.} Contact resistance for the Connector. *2. Dielectric strength for the Connector.

Materials and Finish

Item	Par	t name		Materials and Finish
		Housing		Fiber gloss rainforced DDT regin (III 0.4V, 0)/block
	XG4M-2030	Cover		Fiber-glass reinforced PBT resin (UL94V-0)/black
	XG4M-4030	Contacts	Mating end	Phosphor bronze/nickel base, 0.15-µm gold plating
		Contacts	Press-fit end	Phosphor bronze/nickel base, 2.0-µm tin plating
Connectors	XG4T-2004/4004	Strain Relief		Fiber-glass reinforced PBT resin (UL94V-0)/black
		Housing		Polyester resin (UL94V-0)/black
	FCN-367J024-AU/F *	Contacts	Mating end	Copper alloy/gold plated
	FCN-367J040-AU/F	Contacts	Press-fit end	Copper alloy/tin plated
		Connecting	screw	Steel/nickel plated
Cable	UL2464 Interface Cable			AWG28
Crimp terminal	Forked crimp terminal			1.25 YAS 3.5 or the equivalent

^{*}These housings, contacts, and connecting screws are made by Fujitsu Component, Ltd.

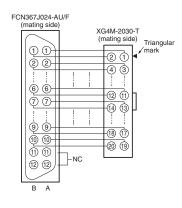
 $XW2Z-\square\square\square A$

Connectors: One 24-pin Connector Made by Fujitsu Component, Ltd. to One 20-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-050A	0.5
	XW2Z-100A	1
	XW2Z-150A	1.5
	XW2Z-200A	2
	XW2Z-300A	3
350	XW2Z-500A	5
3	XW2Z-700A	7
	XW2Z-010A	10
	XW2Z-15MA	15
	XW2Z-20MA	20



Wiring Diagram



XW2Z-□□B

Cable length L (m)

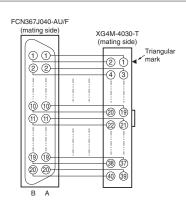
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-050B	0.5
	XW2Z-100B	1
	XW2Z-150B	1.5
	XW2Z-200B	2
	XW2Z-300B	3
	XW2Z-500B	5
	XW2Z-700B	7
	XW2Z-010B	10
	XW2Z-15MB	15
	XW2Z-20MB	20

Cable length L (m)



Wiring Diagram

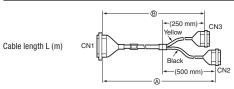


Connecting C a b l e s

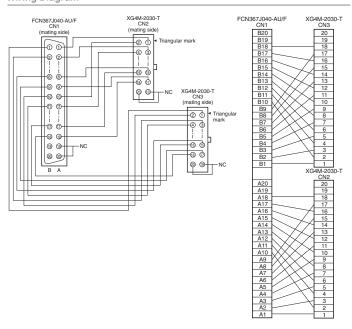
XW2Z-□□□D

Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to Two 20-pin MIL Connectors

Appearance	Model	Cable length L (m)				
Арреаганов	INIOUGI	Α	В			
	XW2Z-100D	1	0.75			
	XW2Z-150D	1.5	1.25			
	XW2Z-200D	2	1.75			
	XW2Z-300D	3	2.75			
The state of the s	XW2Z-500D	5	4.75			
Andrew Street	XW2Z-010D	10	9.75			
	XW2Z-15MD	15	14.75			
	XW2Z-20MD	20	19.75			



Wiring Diagram

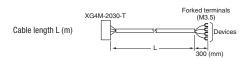


Connector Pin No. Table

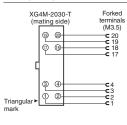
XW2Z-□□□F

Connectors: One 20-pin MIL Connector to 20 Loose Wires with Crimp Terminals Attached

Appearance	Model	Cable length L (m)
	XW2Z-100F	1
	XW2Z-150F	1.5
	XW2Z-200F	2
	XW2Z-300F	3
	XW2Z-500F	5
Miller Miller Com	XW2Z-010F	10
	XW2Z-15MF	15
	XW2Z-20MF	20



Wiring Diagram



Forked terminal	No. of cores	Insulation color	Dot marks	Dot color	Connector pin No.
1	1	Blue		Red	1 ⊲
2	'	Diue		Black	2
3	2	Pink		Red	3
4	2	FILIK		Black	4
5	3	Green	П	Red	5
6	3	dieen	Ш	Black	6
7	4	Orange		Red	7
8	4	Urange		Black	8
9	5	Crov		Red	9
10	3	Gray		Black	10
11	6	Blue		Red	11
12	0	Diue		Black	12
13	7	Pink		Red	13
14	,	FILIK		Black	14
15	8	Green		Red	15
16	0	Green		Black	16
17	9	Orange		Red	17
18	9	Urallye		Black	18
19	10	Gray		Red	19
20		uidy		Black	20

XW2Z-□□□K

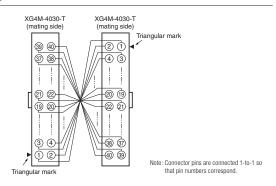
Connectors: One 40-pin MIL Connector to One 40-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-C25K	0.25
	XW2Z-C50K	0.5
	XW2Z-100K	1
	XW2Z-150K	1.5
	XW2Z-200K	2
A.	XW2Z-300K	3
	XW2Z-500K	5
	XW2Z-010K	10





Wiring Diagram

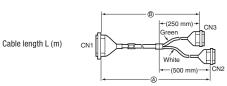


Connecting C a b l e s

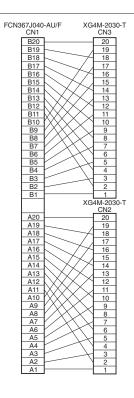
XW2Z-□□□L

Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to Two 20-pin MIL Connectors

Annogranog	Model	Cable length L (m)	
Appearance	Wiodei	Α	В
	XW2Z-100L	1	0.75
	XW2Z-150L	1.5	1.25
	XW2Z-200L	2	1.75
	XW2Z-300L	3	2.75
	XW2Z-500L	5	4.75
	XW2Z-010L	10	9.75
	XW2Z-15ML	15	14.75
	XW2Z-20ML	20	19.75

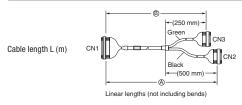


Wiring Diagram

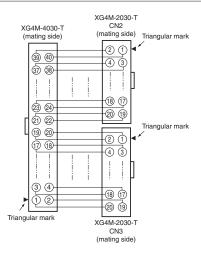


XW2Z-□□□N
Connectors: One 40-pin MIL Connector to Two 20-pin MIL Connectors

Annogrango	Model	Cable length L (m)	
Appearance	Wiodei	Α	В
	XW2Z-100N	1	0.75
	XW2Z-150N	1.5	1.25
	XW2Z-200N	2	1.75
	XW2Z-300N	3	2.75
	XW2Z-500N	5	4.75
	XW2Z-010N	10	9.75
	XW2Z-15MN	15	14.75
	XW2Z-20MN	20	19.75



Wiring Diagram



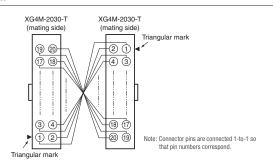
XW2Z-□□□X

Connectors: One 20-pin MIL Connector to One 20-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-C50X	0.5
	XW2Z-100X	1
	XW2Z-200X	2
	XW2Z-300X	3
	XW2Z-500X	5
	XW2Z-010X	10



Wiring Diagram



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 rods terminal)

Type of	Manufacturer	Size	Post terminal model	Reccommend
terminal			illouei	crimp tool
	Phoenix Contact	AWG24	AI0.25-8□□	CRIMFOX6 PZ6 roto
		AWG22	AI0.34-8TQ	
Square rod		AWG20	AI0.5-10WH AI0.5-8WH	
		AWG18	AI0.75-10GY AI0.75-8GY	
		AWG16	Al1.5-10BK	
		AWG14	AI2.5-8BU	
		AWG24	H0.25/12	
		AWG22	H0.34/12	
	Weidmuller	AWG20	H0.5/14	
	Woldmanor	AWG18	H0.75/14	
	AWG16 H1.5/14 AWG14 H2.5/15D			
		AWG14	H2.5/15D	
Round rod	Nichifu	AWG22- AWG16	TGV TC-1.25-9T	NH11 NH32 NH65

Note: $\Box\Box$ of rod terminal model is for color (Ex: YE = Yellow)

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



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

Mounting Units to and Removing Units from DIN Track

Mounting Procedure



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

Removal Procedure

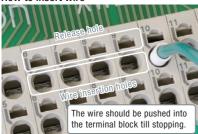


1.Insert a flat-blade screwdriver into the DIN Track lock. 2.Move the screwdriver like a lever to free the lock.

Connecting Spring cramp Terminals

Using Ferrules

How to insert wire



How to release wire

Insert the screwdriver into the release hole and pull out the ferrule.

Using Stripped Wires

Inserting and Removing Wires

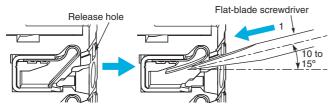


Inserting Wires

① Press the a flat-blade screwdriver diagonally into the release hole.

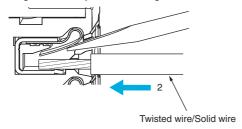
Press at an angle of 10° to 15°.

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

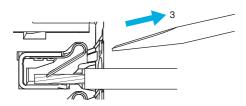


②Leave the flat-blade screwdriver pressed into the release hole and insert the twisted wire or the solid wire into the terminal hole.

Insert the twisted wire or the solid wire until the stripped portion is no longer visible to prevent shorting.



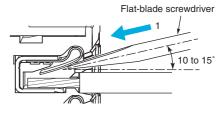
③ Remove the flat-blade screwdriver from the release hole.



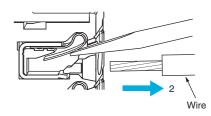
Removing Wires

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

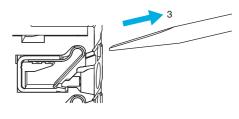
If you press in the screwdriver correctly, you will feel the spring in the release hole.



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

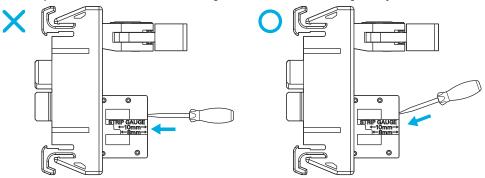


③Remove the flat-blade screwdriver from the release hole.

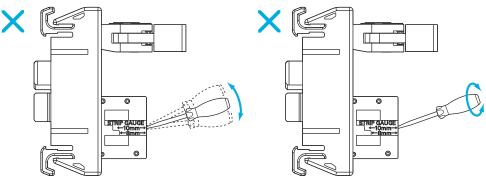


Precautions for Safe Use

• 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.

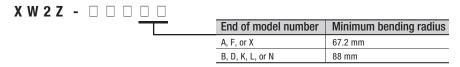
Model	Use tool	Specialized tool and dimension
XW2R-J□□	Phillips screwdriver	JIS#2
XW2R-E□□	Flat-blade screwdriver	Model XW4Z-00B
XW2R-P□□	i iat-biaue sciewuiivei	Head of screwdriver Is 0.4×2.5 mm max.

Flat-blade screwdriver



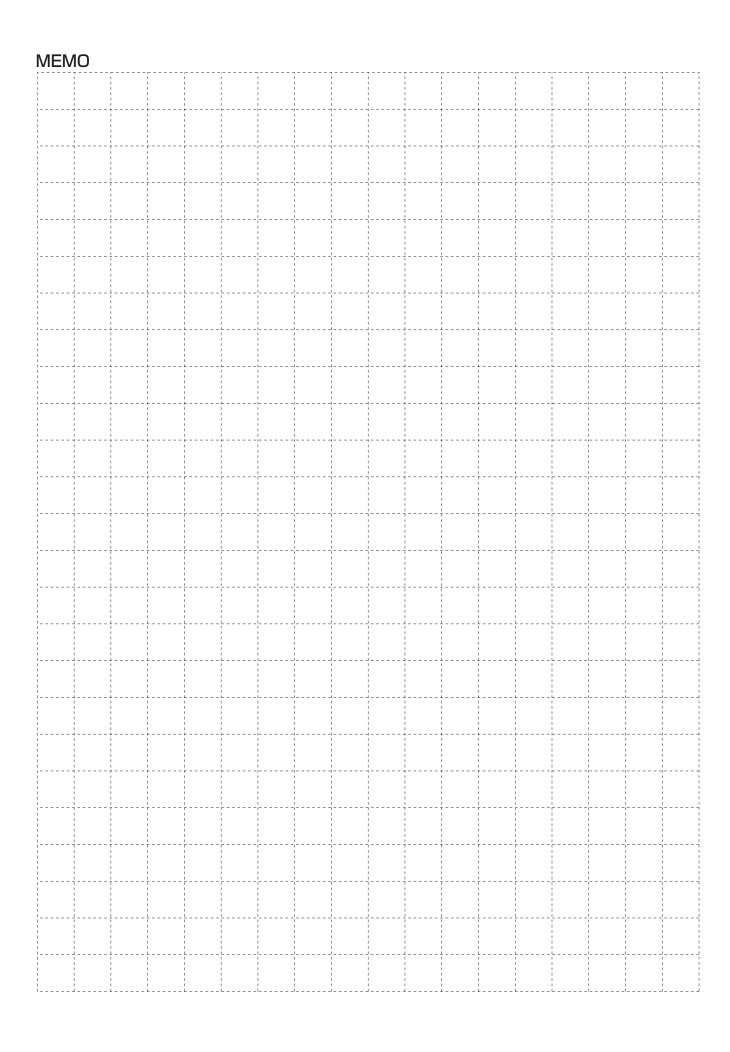
Bending Radius of Connecting Cables

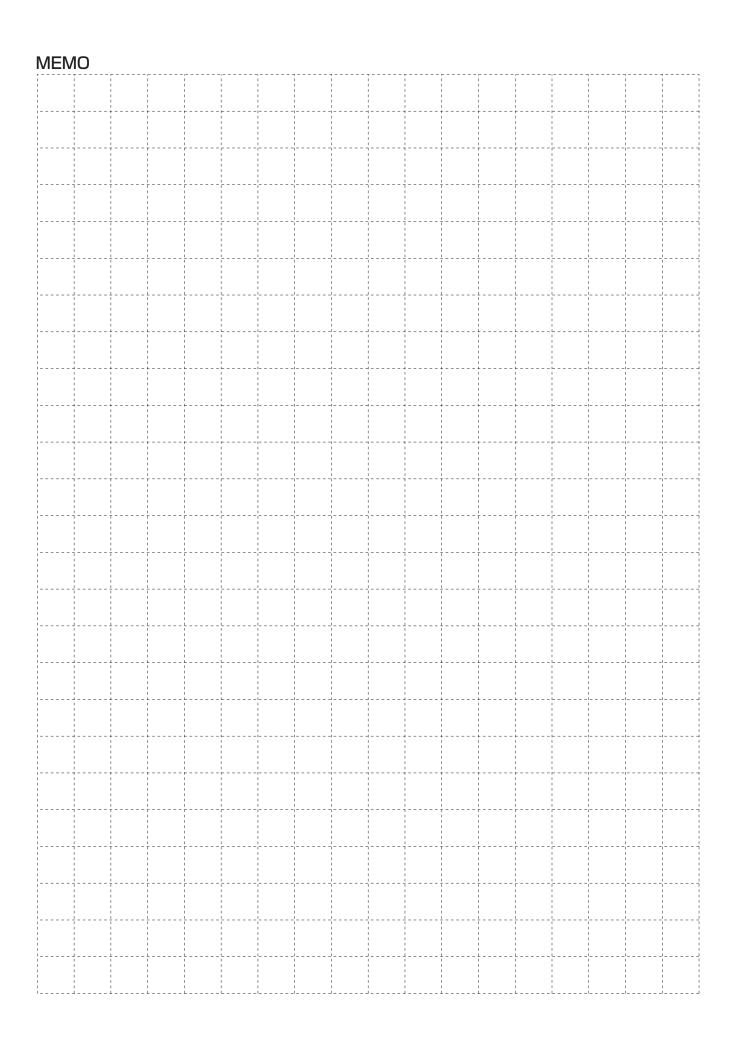
• To prevent damaging the Connecting Cables, use the following minimum bending radii as guidelines.



For checking electrical continuity

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





OMRON Corporation Industrial Automation Company

Tokyo, JAPAN

Contact: www.ia.omron.com

Regional Headquarters OMRON EUROPE B.V.

Wegalaan 67-69-2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

IL 60173-5302 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ELECTRONICS LLC

One Commerce Drive Schaumburg,

Authorized Distributor:

© OMRON Corporation 2012 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. CSM_6_1_0314

Cat. No. G077-E1-02

1212 (1012) (W)