# **Common Terminals**

# XW2R-COM

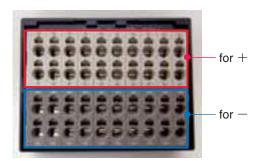
CSM\_XW2R-P\_M\_B-COM\_DS\_E\_1\_1

# Space-saving and less wiring work of power supply wiring are achieved.

- Common wiring is already wired on the PCB, transition wiring is unnecessary.
- Wiring is completed by one action.
- Models available with +,-,+ Mix.



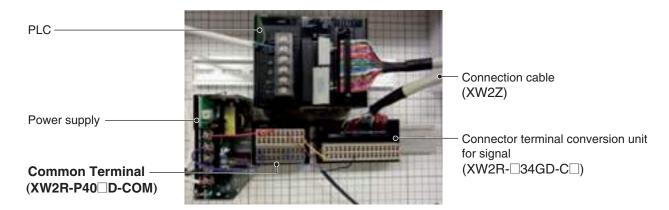
# **Application Example**



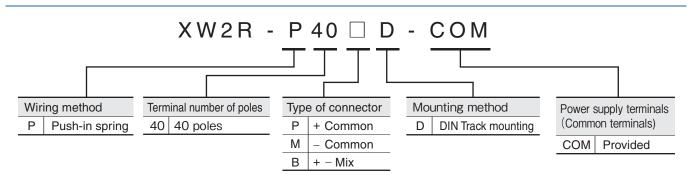
### Each terminal connected by PCB.

→Bus-bar and transition wiring are unnecessary.

# **Connection Examples**



### **Model list**



# **Ordering Information**

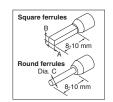
Appearance	Specification	Number of poles	Model	
	+ Common terminal		XW2R-P40PD-COM	
	<ul><li>Common terminal</li></ul>	40	XW2R-P40MD-COM	
	+ – Mix terminal		XW2R-P40BD-COM	

# **Ratings and Specifications**

Rated current		10A(Unit total)		
Rated voltag	је	125VDC/240VAC		
Insuration re	sistance	100MΩmin. (at 500VDC)		
Ambient ope temperature	•	0 to 55°C		
Applicable wires	Applicable wire sizes	Ferrule:AWG24 to 14 (0.2mm² to 2mm²) Stranded or solid wire:AWG 28 to 14 (0.08mm² to 2mm²) (Outer diameter of insulation must be 4 mm max)		
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm		

# **Details on Crimp Terminals Applicable Ferrules**

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

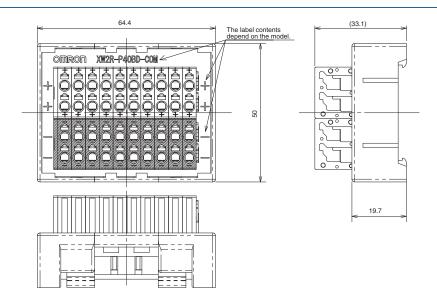


· Ferrule Dimensions

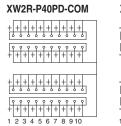
Square	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be	
ferrules	Dimension B (Height)	2 mm max.	4.8 mm <sup>2</sup> or less	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)		

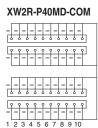
Refer to page 3 for information on Square/Round ferrule and use tool.

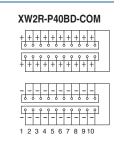
## **Dimensions**



# **Wiring Diagram**







## **Label Contents**

XW2R-P40PD-COM	Upper	+	+	+	+	+	+	+	+	+	+
	Lower	+	+	+	+	+	+	+	+	+	+
XW2R-P40MD-COM	Upper	-	_	_	_	_	_	_	_	_	_
	Lower	-	_	_	_	_	_	_	_	_	_
XW2R-P40BD-COM	Upper	+	+	+	+	+	+	+	+	+	+
	Lower	-	_	_	_	_	_	_	_	_	_
		1	2	3	4	5	6	7	8	9	10

# **Safety Precautions**

### **Precautions for Correct Use**

### **Wiring Precautions**

- Do not perform wiring work, remove connectors, or connect connectors while power is being supplied. Electric shock or damage to the device may result.
- Double-check all wiring before turning ON the power supply.
- After wiring, route the cable so that force is not applied directly to the connections.

### **Wires for Terminal Blocks**

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

### XW2R-P□□ type (Square/Round ferrule)

Type of terminal	Manufacturer	Size	Recommend ferrule	Recommend crimp tool		
	Phoenix Contact	AWG24	AI0.25-8□□			
		AWG22	AI0.34-8TQ			
		AWG20	AI0.5-10WH AI0.5-8WH	CRIMFOX6		
		AWG18	AI0.75-10GY AI0.75-8GY	Chimicoxo		
		AWG16	AI1.5-10BK			
Square ferrule		AWG14	Al2.5-8BU			
	Weidmuller	AWG24	H0.25/12			
		AWG22	H0.34/12			
		AWG20	H0.5/14	PZ6 roto		
		AWG18	H0.75/14	PZ6 1010		
		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)

а

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

### **Mounting Units to and Removing Units from DIN Track**

### **Mounting Procedure**



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

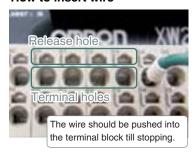
### **Removal Procedure**



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

### **Connecting Spring cramp Terminals**

# Using Ferrules How to insert wire



### How to release wire

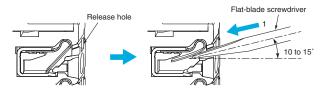


### Using Stripped Wires Inserting and Removing Wires

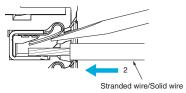


### **Inserting Wires**

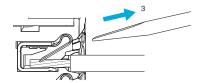
 Press the a flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



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

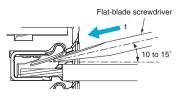


3. Remove the flat-blade screwdriver from the release hole.

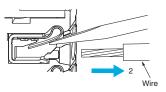


### **Removing Wires**

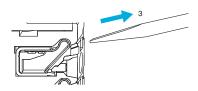
 Press the flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



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

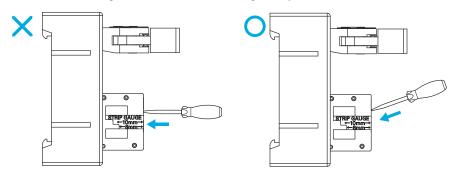


3. Remove the flat-blade screwdriver from the release hole.

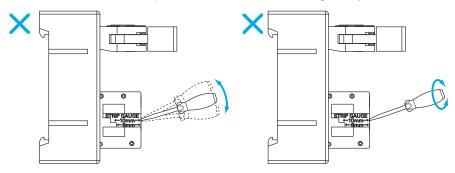


### **Precautions for Safe Use**

• 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.



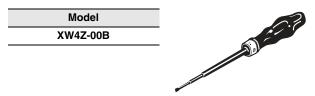
- Make sure that all wiring is correct.
- Do not bend the cable forcibly. Doing so may sever the cable.

### Use tool

• Select a use tool from following table.

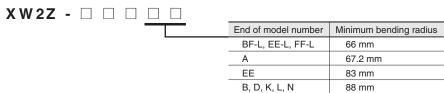
Model	Use tool	Specialized tool and dimension		
XW2R-J□□	Phillips screwdriver	JIS#2		
XW2R-E□□	Flat-blade screwdriver	Model XW4Z-00B		
XW2R-P□□	i lat-blade sciewdilvei	Head of screwdriver Is 0.4 x 2.5mm max.		

### Flat-blade screwdriver



### **Bending Radius of Connecting Cables**

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



### For checking electrical continuity

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

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