# XW2D

## New Slim Connector-Terminal Block Conversion Units.

- Mounting area reduced by 35% (in comparison with 40-pole XW2B Units) to contribute to downsizing control panels and automatic equipment.
- Fallout prevention for terminal screws.
- Round or forked crimp terminals can be used.
- Mount to DIN Track or via screws.
  Unique DIN Track lock can maintain open status during DIN Track attachment and removal.
- Terminal cover can be locked open.
- Screw terminals are arranged by color in groups of five to simplify counting terminal numbers.



## **Ordering Information**

## Connectors

Mounted Con- nector	No. of poles	Model	Dimension A	Dimension B	Mounted Connector model	Cable Connector mode
XG4A MIL Connectors	20	XW2D-20G6	79	57	XG4A-2031	XG4M-2030-T
	34	XW2D-34G6	128	100	XG4A-3431	XG4M-3430-T
		XW2D-40G6	149	110	XG4A-4031	XG4M-4030-T
	40	XW2D-40G6-RF *1	149	110	XG4A-4031	XG4M-4030-T
		XW2D-40G6-RM *2	149	110	XG4A-4031	XG4M-4030-T
	50	XW2D-50G6	184	144	XG4A-5031	XG4M-5030-T
20      XW2D-20C6        XG4C      34      XW2D-34C6        MIL Connectors      40      XW2D-40C6        50      XW2D-50C6	20	XW2D-20C6	79	57	XG4C-2031	XG4M-2030-U
	34	XW2D-34C6	128	100	XG4C-3431	XG4M-3430-U
	40	XW2D-40C6	149	110	XG4C-4031	XG4M-4030-U
	184	144	XG4C-5031	XG4M-5030-U		
MR Sockets	20	XW2D-20X6	79	57	MR-20RFD2 *3	MR-20M *3
	34	XW2D-34X6	128	100	MR-34RFD2 *3	MR-34M *3
	50	XW2D-50X6	184	144	MR-50RFD2 *3	MR-50M *3
	20	XW2D-20Y6	79	57	MR-20RMD2 *3	MR-20F*3
MR Plugs	34	XW2D-34Y6	128	100	MR-34RMD2 *3	MR-34F*3
-	50	XW2D-50Y6	184	144	MR-50RMD2 *3	MR-50F *3

\*1. This model has built-in bleeder resistance and is used for inputs to Units with Fujitsu connectors, i.e., the CJ1W-ID231/-ID261/-MD261.

\*2. This model has built-in bleeder resistance and is used for inputs on Units with MIL connectors, i.e., the CJ1W-ID232/-ID262/-MD263/-MD563.
 \*3. The MR Connector is made by Honda Tsushin Kogyo.

## Accessories (Order Separately)

**Connecting Cables for Connector-Terminal Block Conversion Units** 

Refer to the XW2Z Datasheet.

## **Ratings and Specifications**

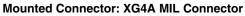
Rated current	1 A
Rated voltage	125 VAC, 24 VDC
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	500 VAC for 1 min (leakage current: 1 mA max.)
Ambient operating tem- perature	0 to 55°C

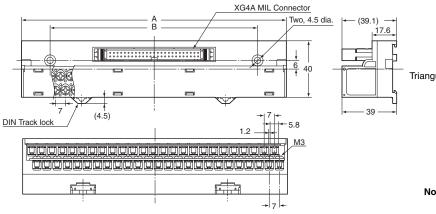
## XW2D

(Unit: mm)

## Dimensions

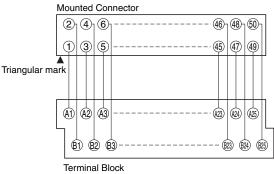
## XW2D-□□G6



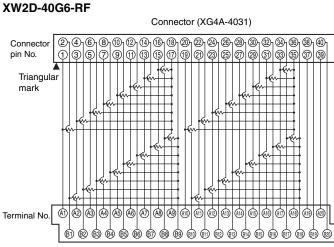


Note: There is only one DIN Track lock located in the center of the terminal block for a 20-pole Unit.

## Wiring Diagram (Example for Terminal Block with 50 Poles)



Note: For all models, the odd-numbered pins on the Connector correspond to row A on the terminal block and the even-numbered pins on the Connector correspond to row B on the terminal block.



Terminal Block

Note: The dimensions shown here are the same as the XW2D-40G6.

#### Dimensions

Model	No. of poles	Dimension A (mm)	Dimension B (mm)
XW2D-20G6	20	79	57
XW2D-34G6	34	128	100
XW2D-40G6		149	110
XW2D-40G6-RF *1	40	149	110
XW2D-40G6-RM *2		149	110
XW2D-50G6	50	184	144

\*1. This model has built-in bleeder resistance and is used for inputs to Units with Fujitsu connectors, i.e., the CJ1W-ID231/-ID261/-MD261.

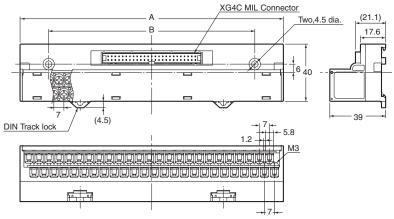
\*2. This model has built-in bleeder resistance and is used for inputs on Units with MIL connectors, i.e., the CJ1W-ID232/-ID262/-MD263/-MD563.

#### Connector (XG4A-4031) Connector pin No. 1 3 $\mathbf{5}$ Triangular mark (A13) Terminal No. (B1) (B2) 83 84 85 86 67 89 89 60 60 60 60 60 60 60 (B17) B18 Terminal Block

XW2D-40G6-RM

Note: The dimensions shown here are the same as the XW2D-40G6.

## XW2D-□□C6 Mounted Connector: XG4C MIL Connector



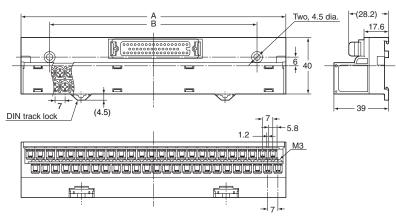
Note: There is only one DIN Track lock located in the center of the terminal block for a 20-pole Unit.

#### Dimensions

Model	No. of poles	Dimension A (mm)	Dimension B (mm)
XW2D-20C6	20	79	57
XW2D-34C6	34	128	100
XW2D-40C6	40	149	110
XW2D-50C6	50	184	144

## XW2D-□□X6

## Mounted Connector: MR Socket



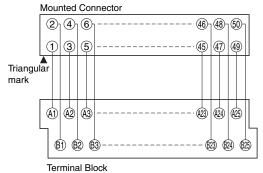
Note: There is only one DIN Track lock located in the center of the Connector for a 20-pole Unit.

#### Dimensions

Model	No. of poles	Dimension A (mm)	Dimension B (mm)
XW2D-20X6	20	79	57
XW2D-34X6	34	128	100
XW2D-50X6	50	184	144

## Wiring Diagram

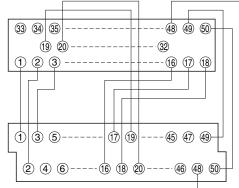
(Example for Terminal Block with 50 Poles)



Note: For all models, the odd-numbered pins on the Connector correspond to row A on the terminal block and the even-numbered pins on the Connector correspond to row B on the terminal block.

## Wiring Diagram (Example for Terminal Block with 50 Poles)

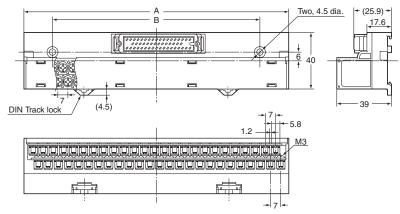
Mounted Connector



Terminal Block

Note: Connector pin numbers correspond 1-to-1 to terminal block numbers on all models.

## XW2D-□□Y6 Mounted Connector: MR Plug

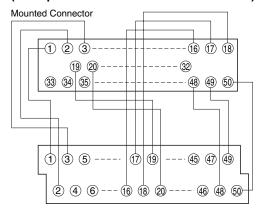


Note: There is only one DIN Track lock located in the center of the terminal block for a 20-pole Unit.

### Dimensions

Model	No. of poles	Dimension A (mm)	Dimension B (mm)
XW2D-20Y6	20	79	57
XW2D-34Y6	34	128	100
XW2D-50Y6	50	184	144

## Wiring Diagram (Example for Terminal Block with 50 Poles)



## Terminal Block

Note: Connector pin numbers correspond 1-to-1 to terminal block numbers on all models.

## **Safety Precautions**

## **Precautions for Correct Use**

## Wiring

- Always turn OFF the power supply before wiring.
  Otherwise, cables or other conductors can short the terminals and cause the Unit to fail.
- Do not connect or disconnect Connectors with the power turned ON. Otherwise, it may cause malfunctions.

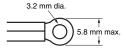
## • Wiring Terminal Blocks

Using Crimp Terminals

## (With a Terminal Block with M3 Screws)

#### Round crimp terminals

Forked crimp terminals





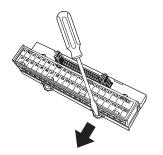
Applicable cr	imp terminals	Applicable wires
Round crimp ter- minals	1.25-3	AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )
Forked crimp ter- minals	1.25Y-3	AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )

## Terminal Screw Tightening Torque

Use a tightening torque of 0.7  $N{\cdot}m$  when connecting wires or crimp terminals to the terminal block.

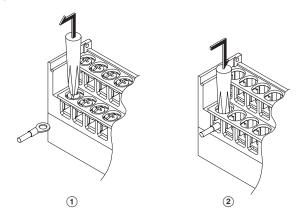
## Mounting Units to and Removing Units from DIN Track

- XW2D Connector-Terminal Block Conversion Units can be mounted side-to-side on DIN Track.
- Secure both ends of the XW2D with End Plates.
- When removing the Unit from a DIN Track, insert a flat-head screwdriver into the slider and pull the lock out.



## Handling M3 Screw and Round Terminals

Raise the M3 screw with a Phillips screwdriver as shown in diagram (1) and slide the screw toward you to keep the space open. Follow the steps in diagrams (1) and (2) below when using round crimp terminals.



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