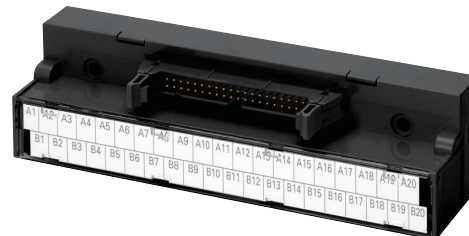


## New Slim Connector-Terminal Block Conversion Units.

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

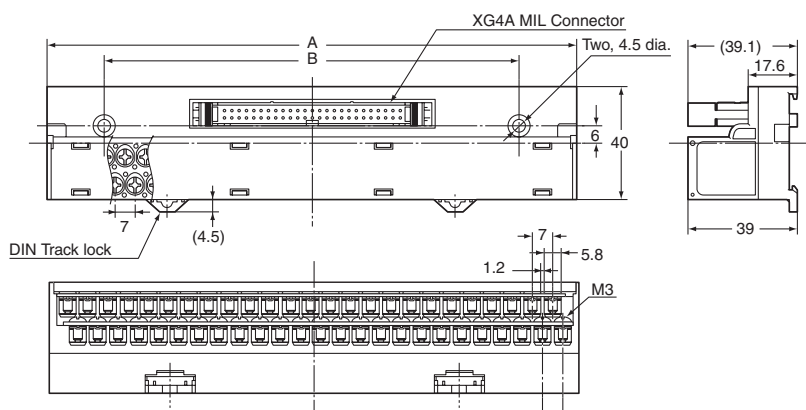
## Ratings and Specifications

|                               |  |
|-------------------------------|--|
| 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 temperature | 0 to 55°C                                      |

## Dimensions

### XW2D-□□G6

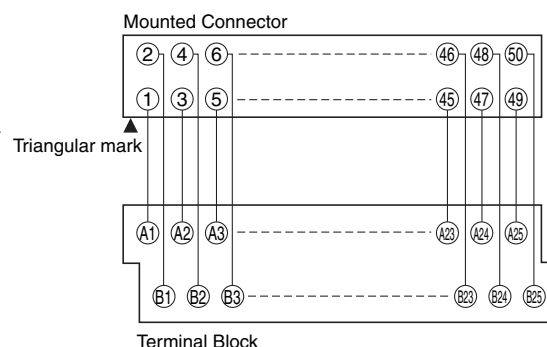
Mounted Connector: XG4A MIL Connector



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

### Wiring Diagram

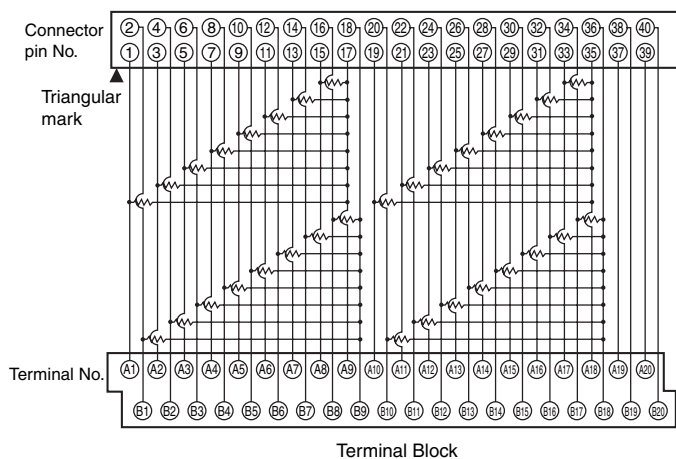
(Example for Terminal Block with 50 Poles)



**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.

### XW2D-40G6-RF

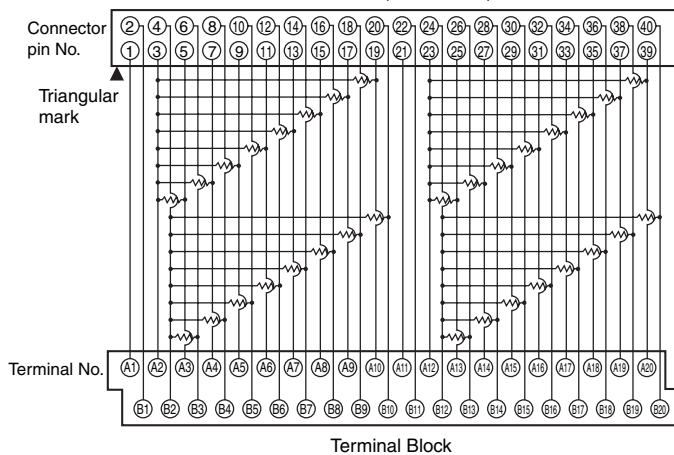
Connector (XG4A-4031)



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

### XW2D-40G6-RM

Connector (XG4A-4031)



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

## Dimensions

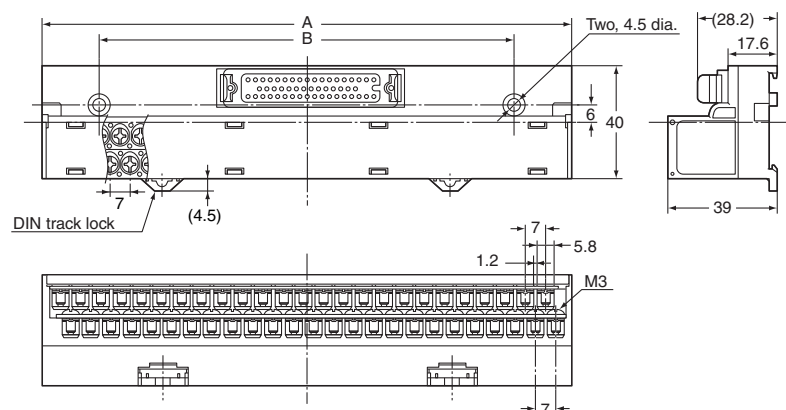
| Model           | No. of poles | Dimension A (mm) | Dimension B (mm) |
|-----------------|--------------|------------------|------------------|
| XW2D-20G6       | 20           | 79               | 57               |
| XW2D-34G6       | 34           | 128              | 100              |
| XW2D-40G6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

## XW2D-□□X6

### Mounted Connector: MR Socket



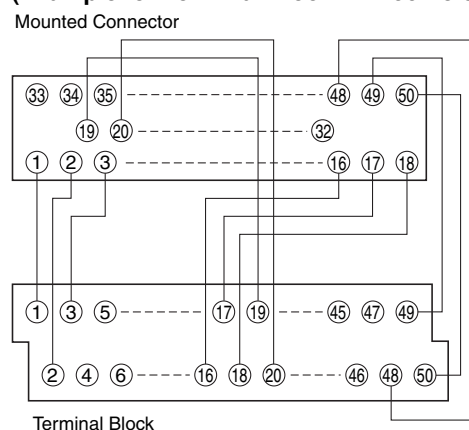
**Note:** There is only one DIN Track lock located in the center of the Connector for a 20-pole Unit.

### 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

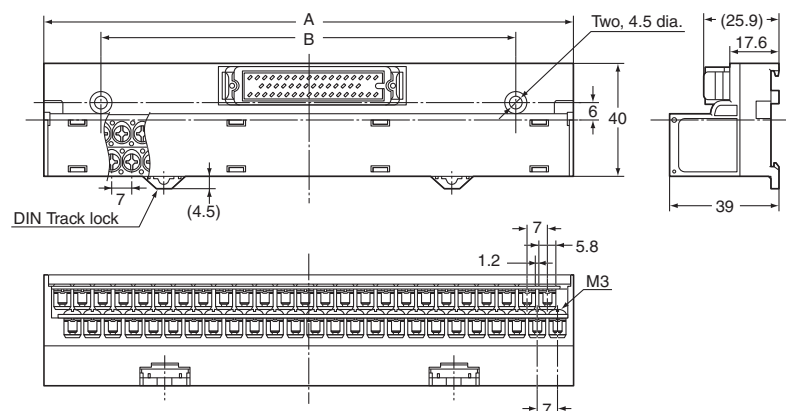
#### (Example for Terminal Block with 50 Poles)



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

## XW2D-□□Y6

### Mounted Connector: MR Plug



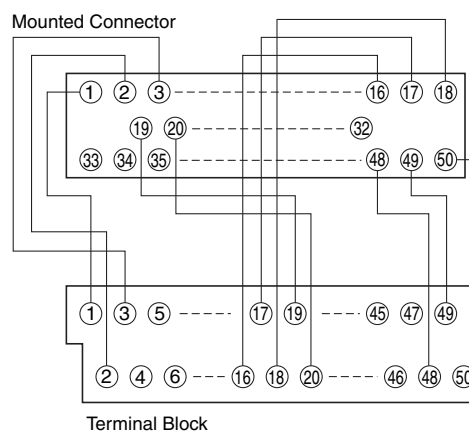
**Note:** There is only one DIN Track lock located in the center of the terminal block for a 20-pole Unit.

### 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)



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

## Safety Precautions

### Precautions for Correct Use

#### ●Wiring

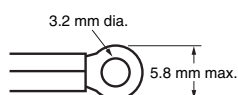
- Always turn OFF the power supply before wiring. Otherwise, cables or other conductors can short the terminals and cause the Unit to fail.
- Do not connect or disconnect Connectors with the power turned ON. Otherwise, it may cause malfunctions.

#### ●Wiring Terminal Blocks

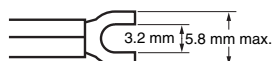
Using Crimp Terminals

(With a Terminal Block with M3 Screws)

##### Round crimp terminals



##### Forked crimp terminals



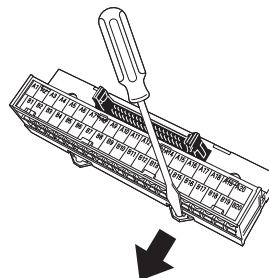
| Applicable crimp terminals |         | Applicable wires                                |
|----------------------------|---------|---|
| Round crimp terminals      | 1.25-3  | AWG 22 to 16<br>(0.30 to 1.25 mm <sup>2</sup> ) |
| Forked crimp terminals     | 1.25Y-3 | AWG 22 to 16<br>(0.30 to 1.25 mm <sup>2</sup> ) |

#### ●Terminal Screw Tightening Torque

Use a tightening torque of 0.54 N·m when connecting wires or crimp terminals to the terminal block.

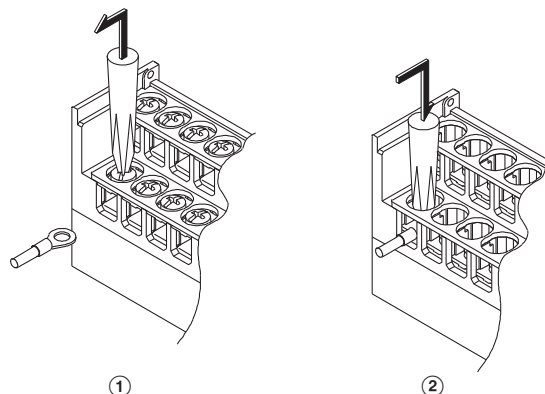
#### ●Mounting Units to and Removing Units from DIN Track

- 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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