

A Wide Range of Basic Output Units for High Speed Output and Different Applications

- These Output Units receive the results of output instructions from the CPU Unit and perform ON/OFF control for external devices.
- High-speed Output models CJ1W-OD213 and CJ1W-OD234 can help to increase system throughput.



CJ1W-OD213



CJ1W-OD234

Features

- High-speed output models are available, meeting versatile applications.
ON Response Time: 15μs, OFF Response Time: 80μs
- Output Units are available with any of three output types: relay contact outputs, triac outputs, or transistor outputs.
- For transistor outputs, select from sinking outputs or sourcing outputs.
- Output Units with load short-circuit protection are also available. *1
- Select the best interface for each application: Fujitsu connectors or MIL connectors. *2
- A wide variety of Connector-Terminal Block Conversion Units are available to allow you to easily wire external output devices.

*1. The following Units have load short-circuit protection: CJ1W-OC202, CJ1W-OD204, CJ1W-OD212, and CJ1W-OD232.






*2. Available for models with 32 outputs or 64 outputs

Ordering Information

International Standards

- The standards are abbreviated as follows: U: UL, U1: UL (Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, and CE: EC Directives.
- Contact your OMRON representative for further details and applicable conditions for these standards.

Output Units

| Unit type | Product name | Specifications | | | | | No. of words allocated | Current consumption (A) | | Model | Standards |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|----------------------------------------|----------------------|--------------------------|------------------------|-------------------------|------------|------------|---------------|
| | | Output type | I/O points | Maximum switching capacity | Commons | External connection | | 5 V | 24 V | | |
| CJ1 Basic I/O Units | Relay Contact Output Units  | – | 8 outputs | 250 VAC/24 VDC, 2 A | Independent contacts | Removable terminal block | 1 words | 0.09 | 0.048 max. | CJ1W-OC201 | UC1, N, L, CE |
| | | – | 16 outputs | 250 VAC/24 VDC, 2 A | 16 points, 1 common | Removable terminal block | 1 words | 0.11 | 0.096 max. | CJ1W-OC211 | |
| | Triac Output Unit  | – | 8 outputs | 250 VAC, 0.6 A | 8 points, 1 common | Removable terminal block | 1 words | 0.22 | – | CJ1W-OA201 | |
| | Transistor Output Units    | Sinking | 8 outputs | 12 to 24 VDC, 2 A | 4 points, 1 common | Removable terminal block | 1 words | 0.09 | – | CJ1W-OD201 | N, L, CE |
| | | Sinking | 8 outputs | 12 to 24 VDC, 0.5 A | 8 points, 1 common | Removable terminal block | 1 words | 0.10 | – | CJ1W-OD203 | |
| | | Sinking | 16 outputs | 12 to 24 VDC, 0.5 A | 16 points, 1 common | Removable terminal block | 1 words | 0.10 | – | CJ1W-OD211 | |
| | | Sinking | 16 outputs (High speed) | 24 VDC, 0.5 A | 16 points, 1 common | Removable terminal block | 1 words | 0.15 | – | CJ1W-OD213 | UC1, N, L, CE |
| | | Sinking | 32 outputs | 12 to 24 VDC, 0.5 A | 16 points, 1 common | Fujitsu connector | 2 words | 0.14 | – | CJ1W-OD231 | |
| | | Sinking | 32 outputs | 12 to 24 VDC, 0.5 A | 16 points, 1 common | MIL connector | 2 words | 0.14 | – | CJ1W-OD233 | N, L, CE |
| | | Sinking | 32 outputs (High speed) | 24 VDC, 0.5 A | 16 points, 1 common | MIL connector | 2 words | 0.22 | – | CJ1W-OD234 | |
| | | Sinking | 64 outputs | 12 to 24 VDC, 0.3 A | 16 points, 1 common | Fujitsu connector | 4 words | 0.17 | – | CJ1W-OD261 | UC1, N, L, CE |
| | | Sinking | 64 outputs | 12 to 24 VDC, 0.3 A | 16 points, 1 common | MIL connector | 4 words | 0.17 | – | CJ1W-OD263 | |
| | | Sourcing | 8 outputs | 24 VDC, 2 A Short-circuit protection | 4 points, 1 common | Removable terminal block | 1 words | 0.11 | – | CJ1W-OD202 | |
| | | Sourcing | 8 outputs | 24 VDC, 0.5 A Short-circuit protection | 8 points, 1 common | Removable terminal block | 1 words | 0.10 | – | CJ1W-OD204 | |
| | | Sourcing | 16 outputs | 24 VDC, 0.5 A Short-circuit protection | 16 points, 1 common | Removable terminal block | 1 words | 0.10 | – | CJ1W-OD212 | |
| | | Sourcing | 32 outputs | 24 VDC, 0.5 A Short-circuit protection | 16 points, 1 common | MIL connector | 2 words | 0.15 | – | CJ1W-OD232 | |
| | | Sourcing | 64 outputs | 12 to 24 VDC, 0.3 A | 16 points, 1 common | MIL connector | 4 words | 0.17 | – | CJ1W-OD262 | |

Accessories

Connectors are not included for models with connectors. Either use one of the applicable connector listed below or use an applicable Connector-Terminal Block Conversion Unit or I/O Relay Terminal. For details on wiring methods, refer to *External Interface*.

Applicable Connectors

Fujitsu Connectors for 32-input, 32-output, 64-input, 64-output, 32-input/32-output, and 16-input/16-output Units





| Name | Connection | Remarks | Applicable Units | Model | Standards |
|-------------------|-----------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| 40-pin Connectors | Soldered | FCN-361J040-AU FCN-360C040-J2 Connector Connector Cover | Fujitsu Connectors: CJ1W-ID231(32 inputs): 1 per Unit CJ1W-ID261 (64 inputs): 2 per Unit CJ1W-OD231 (32 outputs): 1 per Unit CJ1W-OD261 (64 outputs): 2 per Unit CJ1W-MD261 (32 inputs, 32 outputs): 2 per Unit | C500-CE404 | - |
| | Crimped | FCN-363J040 FCN-363J-AU FCN-360C040-J2 Housing Contact Connector Cover | | C500-CE405 | |
| | Pressure welded | FCN-367J040-AU/F | | C500-CE403 | |
| 24-pin Connectors | Soldered | FCN-361J024-AU FCN-360C024-J2 Connector Connector Cover | Fujitsu Connectors: CJ1W-MD231 (16 inputs, 16 outputs): 2 per Unit | C500-CE241 | |
| | Crimped | FCN-363J024 FCN-363J-AU FCN-360C024-J2 Socket Contact Connector Cover | | C500-CE242 | |
| | Pressure welded | FCN-367J024-AU/F | | C500-CE243 | |

MIL Connectors for 32-input, 32-output, 64-input, 64-output, 32-input/32-output, and 16-input/16-output Units

| Name | Connection | Remarks | Applicable Units | Model | Standards |
|-------------------|-----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| 40-pin Connectors | Pressure welded | FRC5-AO40-3TOS | MIL Connectors: CJ1W-ID232/233 (32 inputs): 1 per Unit CJ1W-OD232/233/234 (32 outputs): 1 per Unit CJ1W-ID262 (64 inputs): 2 per Unit CJ1W-OD262/263 (64 outputs): 2 per Unit CJ1W-MD263/563 (32 inputs, 32 outputs): 2 per Unit | XG4M-4030-T | - |
| | Crimped | - | | XG5N-401* | |
| 20-pin Connectors | Pressure welded | FRC5-AO20-3TOS | MIL Connectors: CJ1W-MD232/233 (16 inputs, 16 outputs): 2 per Unit | XG4M-2030-T | - |
| | Crimped | - | | XG5N-201* | |

* Crimp Contacts are also required. Refer to page 31 for details.

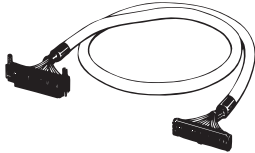
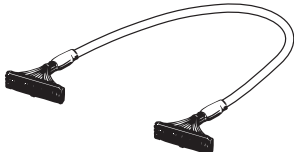
Applicable Connector-Terminal Block Conversion Units

| Type | Series | Number of connector poles | Number of terminal block poles | Wiring method | Terminal type | Size | | | Mounting | | Common terminals | I/O Units | Model* | Standards |
|------|--------|---------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|------------|-------------|------------|-----------|--------------------------------------------------------------------|------------------|--------------------------------------------------------------------|-------------------|-----------|
| | | | | | | Depth (mm) | Height (mm) | Width (mm) | DIN Track | Screws | | | | |
| PLCs | XW2K | 40 | 36 | Push-In Plus  | Spring | 75 | 39 | 40.8 | Yes | --- | No | CJ1W-OD231 CJ1W-OD261 | XW2K-40G-O32B | --- |
| | | | | | | | | | | | | CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263 | XW2K-40G-O32C | |
| | | 40 | 68 | Push-In Plus  | Spring | 124 | 39 | 40.8 | | | Yes | CJ1W-OD231 CJ1W-OD261 | XW2K-40G-O32B-OUT | |
| | | | | | | | | | | | | CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263 | XW2K-40G-O32C-OUT | |
| | XW2R | 40 | 34 | Phillips screw  | M3 | 130.7 | 50 | 48.05 | | | No | CJ1W-OD231 CJ1W-OD261 | XW2R-J34GD-C3 | |
| | | | | | | | | | | | | CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263 | XW2R-J34GD-C4 | |
| | | 40 | 34 | Slotted screw (rise up)  | M3 (European type) | 98.5 | 50 | 44.81 | No | CJ1W-OD231 CJ1W-OD261 | XW2R-E34GD-C3 | | | |
| | | | | | | | | | | CJ1W-OD232 CJ1W-OD233 CJ1W-OD234 CJ1W-OD262 CJ1W-OD263 | XW2R-E34GD-C4 | | | |







Note: For the combination of I/O Units with Connector-Terminal Block Conversion Units, refer to 2. *Connecting Connector-Terminal Block Conversion Units*.

* Representative models only. For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R series catalog (Cat. No. G077).

Connecting Cables for Connector-Terminal Block Conversion Units

| Appearance | Connectors | Cable length [m] | Model |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|-----------|
| XW2Z-□□□B  | One 40-pin Fujitsu Connector to One 40-pin MIL Connector | 0.5 | XW2Z-050B |
| | | 1 | XW2Z-100B |
| | | 1.5 | XW2Z-150B |
| | | 2 | XW2Z-200B |
| | | 3 | XW2Z-300B |
| | | 5 | XW2Z-500B |
| XW2Z-□□□K  | One 40-pin MIL Connector to One 40-pin MIL Connector | 0.5 | XW2Z-C50K |
| | | 1 | XW2Z-100K |
| | | 1.5 | XW2Z-150K |
| | | 2 | XW2Z-200K |
| | | 3 | XW2Z-300K |
| | | 5 | XW2Z-500K |

Applicable I/O Relay Terminals

| Type | Series | Specifications | | | | | | Size (horizontal mounting) | | | Mounting | | Model | Standards | | | | | | | | | |
|-----------------------------|-------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|---------------------|----------------------|------------------------------|-----------------------------------------|---------------------------------|------------------|-------------|-----------|--------|-------------------------------|------------------------|------------------|------------|-----|-----|---------------|--------------|--------------------------|-------------|--------------------------|
| | | Classification | | Polarity | Number of points | Rated ON current at contacts | Rated voltage | Horizontal (mm) | Vertical (mm) | Height (mm) | DIN Track | Screws | | | | | | | | | | | |
| Push-In Plus terminal block |  | Inputs | DC inputs | NPN | 16 (SPSTNO × 16) | 50 mA | 24 VDC | 143 | 90 | 56 | Yes | Yes | G70V-SID16P *4 | UC, CE (TÜV certified) | | | | | | | | | |
| | | | | PNP | | | | | | | | | G70V-SID16P-1 *4 | | | | | | | | | | |
| | | | | NPN | | | | | | | | | G70V-SID16P-C16 *5 | | | | | | | | | | |
| | | | | PNP | | | | | | | | | G70V-SID16P-1-C16 *5 | | | | | | | | | | |
| | | Outputs | Relay outputs | NPN | 16 (SPDT × 16) | 6 A/point, 10 A/ common | | | | | | | G70V-SOC16P *4 | | | | | | | | | | |
| | | | | PNP | | | | | | | | | G70V-SOC16P-1 *4 | | | | | | | | | | |
| | | | | NPN | | | | | | | | | G70V-SOC16P-C4 *6 | | | | | | | | | | |
| | | | | PNP | | | | | | | | | G70V-SOC16P-1-C4 *6 | | | | | | | | | | |
| Standard |  | Inputs | AC inputs | NPN | 16 (SPSTNO × 16) | 1A | 100/(110) VAC | 182 | 85 | 68 | Yes | No | G7TC-IA16 AC100/110 | U, C | | | | | | | | | |
| | | | DC inputs | | | | 200/(220) VAC | | | | | | G7TC-IA16 AC200/220 | | | | | | | | | | |
| | | | | | | | 12 VDC | | | | | | G7TC-ID16 DC12 | | | | | | | | | | |
| | | | | | | | 24 VDC | | | | | | G7TC-ID16 DC24 | | | | | | | | | | |
| | | 100/110 VDC | | G7TC-ID16 DC100/110 | | | | | | | | | | | | | | | | | | | |
| | | Outputs | Relay outputs | NPN | 8 (SPSTNO × 8) | 5A | 12 VDC | 102 | | | | | G7TC-OC08 DC12 | | | | | | | | | | |
| | | | | | 16 (SPSTNO × 16) | | 24 VDC | | | | | | 182 | | G7TC-OC08 DC24 | | | | | | | | |
| | | | | | | | 12 VDC | | | | | | | | G7TC-OC16 DC12 | | | | | | | | |
| | | | | | | | 24 VDC | | | | | | | | G7TC-OC16 DC24 | | | | | | | | |
| | | | | PNP | | | 16 (SPSTNO × 16) | 12 VDC | | | | | | | G7TC-OC16-1 DC12 | | | | | | | | |
| | | | | | 24 VDC | | | G7TC-OC16-1 DC24 | | | | | | | | | | | | | | | |
| | | | | | 12 VDC | | | G7TC-OC16-1 DC12 | | | | | | | | | | | | | | | |
| | | | | | 24 VDC | | | G7TC-OC16-1 DC24 | | | | | | | | | | | | | | | |
| | | High-capacity socket |  | Inputs | Relay inputs | NPN/ PNP | 16 (SPDT × 16 possible with G2R Relays) | 100 mA | | | | | 110 VDC max., 240 VAC max. *2 | | 234 | 75 | 64 | Yes | No | G70A-ZOC16-5 | U, C, CE (VDE certified) | | |
| | | | | Outputs | Relay outputs | NPN | | 10 A (Terminal block allowable) | | | | | 24 VDC | | | | | | | G70A-ZOC16-3 | | | |
| | | | | | | PNP | | G70A-ZOC16-4 | | | | | | | | | | | | | | | |
| Space-saving |  | | | Relay outputs | MOSFET relay outputs | NPN | | 16 (SPSTNO × 16) | 5 A or 3 A *3 | 24 VDC | 135 | 46 | 81 | Yes | | | | | | Yes | | G70D-VSOC16 | U, C, CE (VDE certified) |
| | | | | | | | | | 0.3 A | | | | | | | | | | | | | G70D-VFOM16 | |
| |  | | | Relay outputs | MOSFET relay outputs | NPN | | 8 (SPSTNO × 8) | 5 A | 24 VDC | 68 | 93 | 44 | Yes | | | | | | Yes | | G70D-SOC08 | — |
| | | 16 (SPSTNO × 16) | 3 A | | | | G70D-SOC16 | | | | | | | | | | | | | | | | |
| | | | PNP | | | | 16 (SPSTNO × 16) | 3 A | G70D-SOC16-1 | | | | | | | | | | | | | | |
| | | | | | | | MOSFET relay outputs | NPN | 16 (SPSTNO × 16) | | | | | | 0.3 A | G70D-FOM16 | | | | | | | |
| | | | PNP | | | G70D-FOM16-1 *7 | | | | | | | | | | | | | | | | | |
| | | High-capacity, space-saving |  | | | Outputs | Relay outputs | NPN | 8 (SPSTNO × 8) | | 10 A | 24 VDC | 136 | | 93 | 55 | Yes | Yes | G70R-SOC08 *7 | | — | | |

*1. G70A is a I/O terminal socket product. Relay is not provided with the socket. Be sure to order a relay, timer separately.

*2. Each relay to be mounted must incorporate a coil that has proper specifications within the maximum rated voltage range.

*3. Eight or fewer points ON: 5 A, Nine or more points ON: 3 A.

*4. Internal common at terminal block: No internal connections

*5. Internal common at terminal block: Internal IO common 16 points internally connected

*6. Internal common at terminal block: Every 4 points internally connected at terminal block middle row.

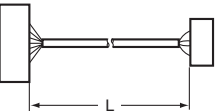
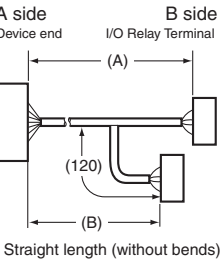
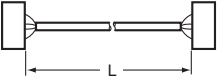
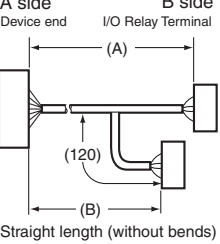
*7. Product no longer available to order.

Note: 1. For the combination of Input Units with I/O Relay Terminal and Connecting Cables, refer to 3. *Connecting I/O Relay Terminals*.

2. Please refer to each Datasheet about details.

3. When the G7TC is used with an AC rated voltage, three rated currents can be used. If a coil voltage of 110 or 220 VAC is used, 50 Hz cannot be used.

Cables for I/O Relay Terminals

| Type | Name | I/O Classification | Appearance | Cable length L (mm) | | Models |
|------------------------------|---------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|---------------------|-------------------|--------|
| Fujitsu connectors (24 pins) | Cables with Connectors (1:1) XW2Z-R□C | 16 I/O points |  | 1,000 | XW2Z-R100C | |
| | | | | 1,500 | XW2Z-R150C | |
| | | | | 2,000 | XW2Z-R200C | |
| | | | | 3,000 | XW2Z-R300C | |
| | | | | 5,000 | XW2Z-R500C | |
| Fujitsu connectors (40 pins) | Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□ | 32 input points |  | (A) 1,000 (B) 750 | XW2Z-RI100C-75 | |
| | | 32 output points | | (A) 1,500 (B) 1,250 | XW2Z-RI150C-125 | |
| | | | | (A) 2,000 (B) 1,750 | XW2Z-RI200C-175 | |
| | | | | (A) 3,000 (B) 2,750 | XW2Z-RI300C-275 | |
| | | | | (A) 5,000 (B) 4,750 | XW2Z-RI500C-475 | |
| | | | | (A) 1,000 (B) 750 | XW2Z-RO100C-75 | |
| | | | | (A) 1,500 (B) 1,250 | XW2Z-RO150C-125 | |
| | | | | (A) 2,000 (B) 1,750 | XW2Z-RO200C-175 | |
| | | | | (A) 3,000 (B) 2,750 | XW2Z-RO300C-275 | |
| | | | | (A) 5,000 (B) 4,750 | XW2Z-RO500C-475 | |
| MIL connectors (20 pins) | Cables with Connectors (1:1) XW2Z-RI□C XW2Z-RO□C | 16 I/O points |  | 250 | XW2Z-RI25C | |
| | | | | 500 | XW2Z-RI50C | |
| | | | | 250 | XW2Z-RO25C | |
| | | | | 500 | XW2Z-RO50C | |
| MIL connectors (40 pins) | Cables with Connectors (1:2) XW2Z-RO□-□-D1, XW2Z-RI□-□-D1 | 32 I/O points |  | (A) 500 (B) 250 | XW2Z-RO50-25-D1 | |
| | | | | (A) 750 (B) 500 | XW2Z-RO75-50-D1 | |
| | | | | (A) 1,000 (B) 750 | XW2Z-RO100-75-D1 | |
| | | | | (A) 1,500 (B) 1,250 | XW2Z-RO150-125-D1 | |
| | | | | (A) 2,000 (B) 1,750 | XW2Z-RO200-175-D1 | |
| | | | | (A) 3,000 (B) 2,750 | XW2Z-RO300-275-D1 | |
| | | | | (A) 5,000 (B) 4,750 | XW2Z-RO500-475-D1 | |
| | | | | (A) 500 (B) 250 | XW2Z-RI50-25-D1 | |
| | | | | (A) 750 (B) 500 | XW2Z-RI75-50-D1 | |
| | | | | (A) 1,000 (B) 750 | XW2Z-RI100-75-D1 | |
| | | | | (A) 1,500 (B) 1,250 | XW2Z-RI150-125-D1 | |
| | | | | (A) 2,000 (B) 1,750 | XW2Z-RI200-175-D1 | |
| | | | | (A) 3,000 (B) 2,750 | XW2Z-RI300-275-D1 | |
| | | | | (A) 5,000 (B) 4,750 | XW2Z-RI500-475-D1 | |

Note: Refer to the Datasheet for the XW2Z-R Cables for I/O Relay Terminals (Cat. No. G126).

Mountable Racks

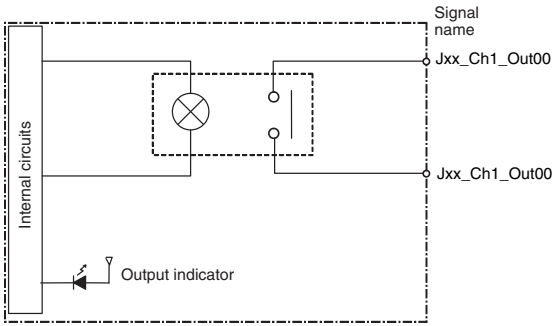
| Model | NJ system | | CJ system (CJ1, CJ2) | | CP1H system | NSJ system* | |
|------------|-----------|----------------------------------|----------------------|---------------------------------------|---------------|----------------|---------------------------------------|
| | CPU Rack | Expansion Rack | CPU Rack | Expansion Backplane | CP1H PLC | NSJ Controller | Expansion Backplane |
| CJ1W-OC201 | 10 Units | 10 Units (Per Expansion Rack) | 10 Units | 10 Units (Per Expansion Backplane) | Not Supported | Not Supported | 10 Units (Per Expansion Backplane) |
| CJ1W-OC211 | | | | | | | |
| CJ1W-OA201 | | | | | | | |
| CJ1W-OD201 | | | | | | | |
| CJ1W-OD203 | | | | | | | |
| CJ1W-OD211 | | | | | | | |
| CJ1W-OD213 | | | | | | | |
| CJ1W-OD231 | | | | | | | |
| CJ1W-OD233 | | | | | | | |
| CJ1W-OD234 | | | | | | | |
| CJ1W-OD261 | | | | | | | |
| CJ1W-OD263 | | | | | | | |
| CJ1W-OD202 | | | | | | | |
| CJ1W-OD204 | | | | | | | |
| CJ1W-OD212 | | | | | | | |
| CJ1W-OD232 | | | | | | | |
| CJ1W-OD262 | | | | | | | |

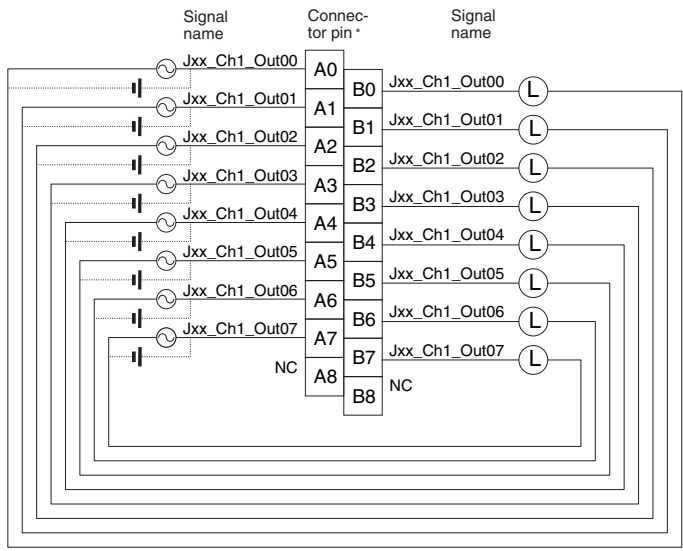
* Product no longer available to order.

Specifications

CJ1W-OC201 Contact Output Unit (Independent Relays, 8 Points)

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name | 8-point Contact Output Unit with Terminal Block (Independent Relays) |
| Model | CJ1W-OC201 |
| Max. Switching Capacity | 2 A 250 VAC ($\cos\phi = 1$), 2 A 250 VAC ($\cos\phi = 0.4$), 2 A 24 VDC (16 A/Unit) |
| Min. Switching Capacity | 1 mA 5 VDC |
| Relays | NY-24W-K-IE (Fujitsu Takamizawa Components, Ltd.), Cannot be replaced. |
| Service Life of Relay | Electrical: 150,000 operations (24 VDC, resistive load)/100,000 operations (240 VAC, $\cos\phi = 0.4$, inductive load) Mechanical: 20,000,000 operations Service life will vary depending on the connected load. |
| ON Response Time | 15 ms max. |
| OFF Response Time | 15 ms max. |
| Number of Circuits | 8 independent contacts |
| Insulation Resistance | 20 M Ω between external terminals and the GR terminal (500 VDC) |
| Dielectric Strength | 2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Internal Current Consumption | 90 mA 5 VDC max. 48 mA 24 VDC max. (6 mA \times No. of ON points) |
| Weight | 140 g max. |

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration |  <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

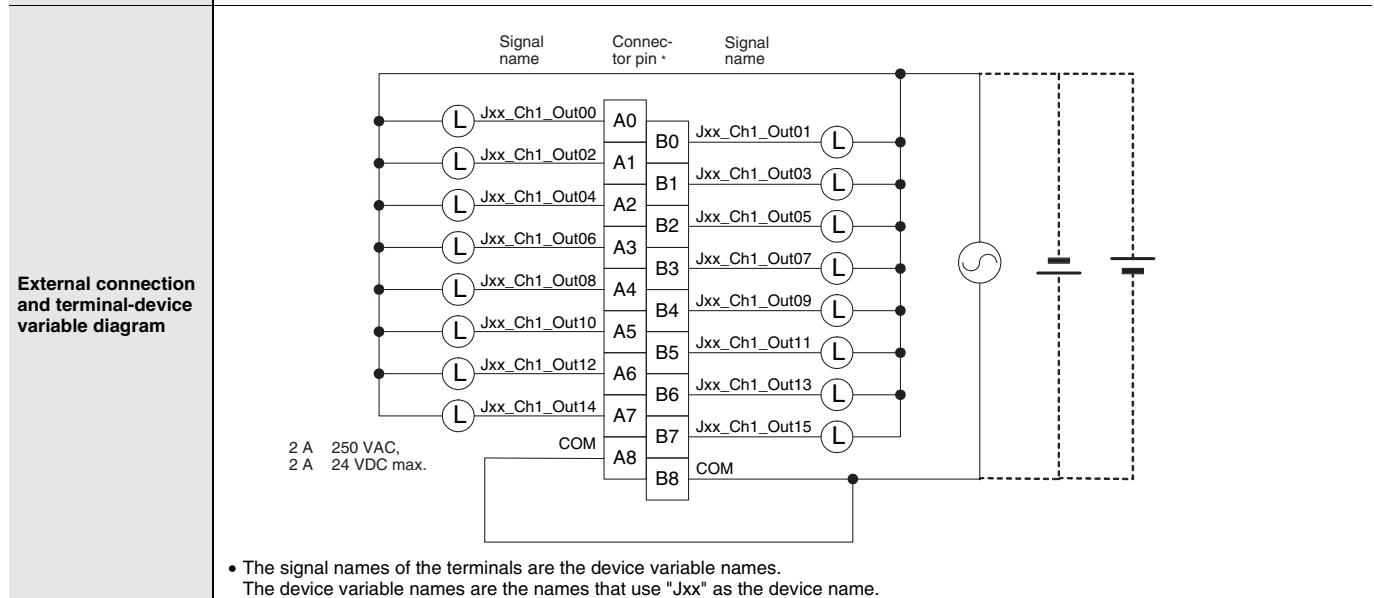
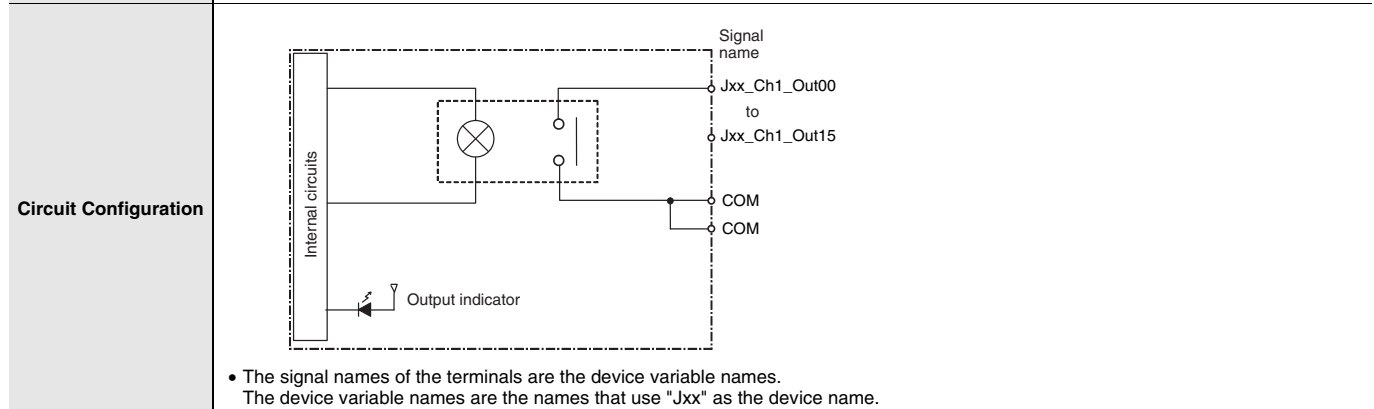
| | |
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| External connection and terminal-device variable diagram |  <p>2 A 250 VAC, 2 A 24 VDC max.</p> <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. The input power supply polarity can be connected in either direction. |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OC211 Contact Output Unit (16 Points)

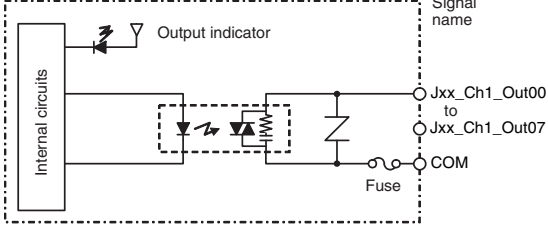
| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name | 16-point Contact Output Unit with Terminal Block |
| Model | CJ1W-OC211 |
| Max. Switching Capacity | 2 A 250 VAC ($\cos\phi = 1$), 2 A 250 VAC ($\cos\phi = 0.4$), 2 A 24 VDC (8 A/Unit) |
| Min. Switching Capacity | 1 mA 5 VDC |
| Relays | NY-24W-K-IE (Fujitsu Takamizawa Components, Ltd.), Cannot be replaced. |
| Service Life of Relay | Electrical: 150,000 operations (24 VDC, resistive load)/ 100,000 operations (250 VAC, $\cos\phi = 0.4$, inductive load) Mechanical: 20,000,000 operations Service life will vary depending on the connected load. |
| ON Response Time | 15 ms max. |
| OFF Response Time | 15 ms max. |
| Number of Circuits | 16 points/common, 1 circuit |
| Insulation Resistance | 20 M Ω between external terminals and the GR terminal (500 VDC) |
| Dielectric Strength | 2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Internal Current Consumption | 110 mA 5 VDC max. 96 mA 24 VDC max. (6 mA \times No. of ON points) |
| Weight | 170 g max. |

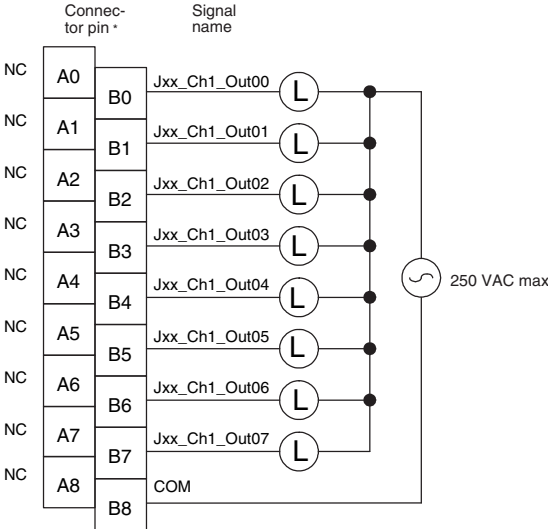


* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OA201 Triac Output Unit (8 Points)

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 8-point Triac Output Unit with Terminal Block |
| Model | CJ1W-OA201 |
| Max. Switching Capacity | 0.6 A 250 VAC, 50/60 Hz (2.4 A/Unit) |
| Max. Inrush Current | 15 A (pulse width: 10 ms max.) |
| Min. Switching Capacity | 50 mA 75 VAC |
| Leakage Current | 1.5 mA (200 VAC) max. |
| Residual Voltage | 1.6 VAC max. |
| ON Response Time | 1 ms max. |
| OFF Response Time | 1/2 of load frequency + 1 ms or less. |
| Number of Circuits | 8 (8 points/common, 1 circuit) |
| Surge Protector | C.R Absorber + Surge Absorber |
| Fuses | 5 A (1/common, 1 used) The fuse cannot be replaced by the user. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (500 VDC) |
| Dielectric Strength | 2,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Internal Current Consumption | 220 mA max. |
| Weight | 150 g max. |

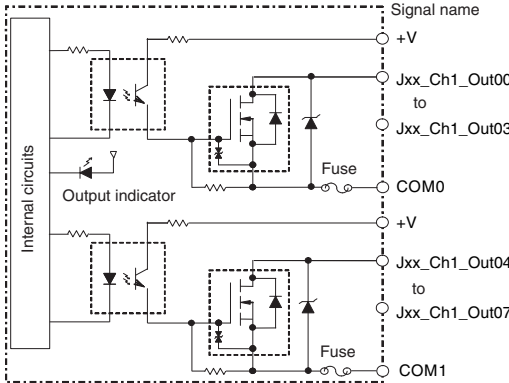
| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration | <div><p>The diagram shows the internal circuitry of the CJ1W-OA201. It includes an 'Internal circuits' block, an 'Output indicator' (LED), a triac, a fuse, and a common terminal 'COM'. The output terminals are labeled 'Jxx_Ch1_Out00' and 'Jxx_Ch1_Out07'. A note states: 'The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.'</p></div> |
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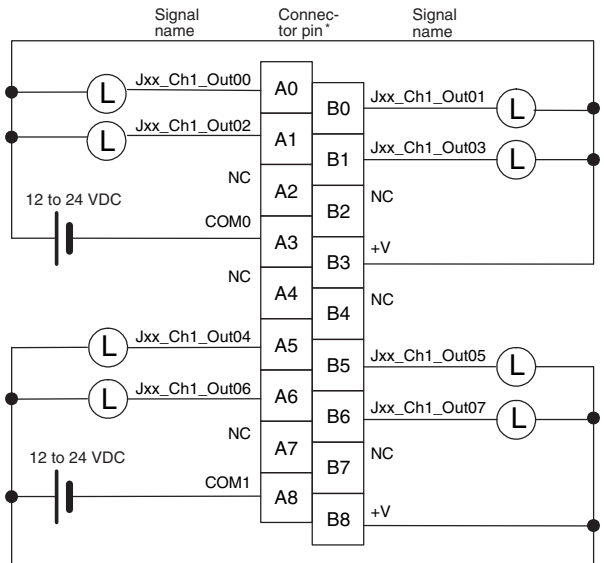
| | |
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| External connection and terminal-device variable diagram | <div><p>The diagram shows the external connection of the CJ1W-OA201. It includes a terminal block with pins A0 to A8 and B0 to B8. The signal names are listed as Jxx_Ch1_Out00 to Jxx_Ch1_Out07. A common terminal 'COM' is also shown. A note states: 'The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.'</p></div> |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.
Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD201 Transistor Output Unit (8 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 8-point Transistor Output Unit with Terminal Block (Sinking Outputs) |
| Model | CJ1W-OD201 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 2.0 A/point, 8.0 A/Unit |
| Maximum Inrush Current | 10 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 8 (4 points/common, 2 circuits) |
| Internal Current Consumption | 90 mA max. |
| Fuse | 6.3 A (1/common, 2 used) The fuse cannot be replaced by the user. |
| External Power Supply | 10.2 to 26.4 VDC, 10 mA min. |
| Weight | 110 g max. |

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration |  <p>• The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p> |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram |  <p>• When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p> |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD203 Transistor Output Unit (8 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 8-point Transistor Output Unit with Terminal Block (Sinking Outputs) |
| Model | CJ1W-OD203 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 4.0 A/Unit |
| Maximum Inrush Current | 4.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.1 ms max. |
| OFF Response Time | 0.8 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 8 (8 points/common, 1 circuit) |
| Internal Current Consumption | 100 mA max. |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 20 mA min. |
| Weight | 110 g max. |

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration | <p>• The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram | <p>• When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p> |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD211 Transistor Output Unit (16 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 16-point Transistor Output Unit with Terminal Block (Sinking Outputs) |
| Model | CJ1W-OD211 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 5.0 A/Unit |
| Maximum Inrush Current | 4.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.1 ms max. |
| OFF Response Time | 0.8 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 16 (16 points/common, 1 circuit) |
| Internal Current Consumption | 5 VDC 100 mA max. |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 20 mA min. |
| Weight | 110 g max. |

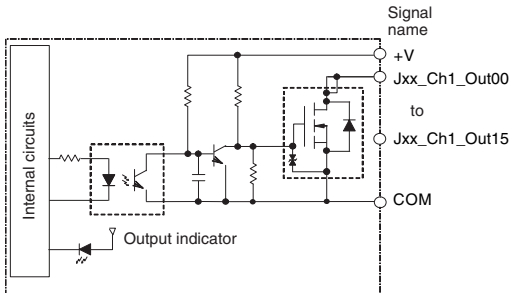
| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration | <p>• The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

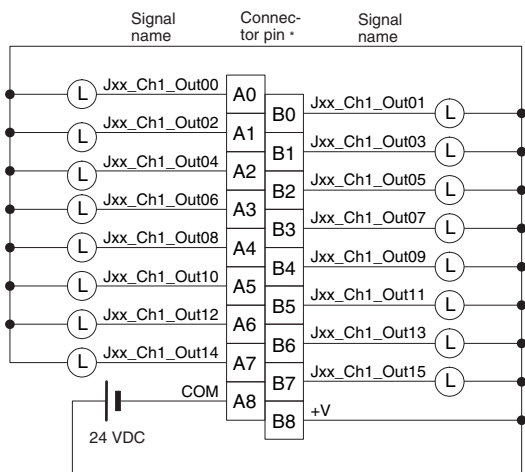
| | |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram | <p>• When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.</p> |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD213 Transistor Output Unit (16 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 16-point Transistor Output Unit with Terminal Block (Sinking Outputs) |
| Model | CJ1W-OD213 |
| Rated Voltage | 24 VDC |
| Operating Load Voltage Range | 20.4 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 5.0 A/Unit |
| Maximum Inrush Current | 4.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 15 μ s max. |
| OFF Response Time | 80 μ s max. |
| Insulation Resistance | 20 M Ω between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 16 (16 points/common, 1 circuit) |
| Internal Current Consumption | 5 VDC 150 mA max. |
| Fuse | None |
| External Power Supply | 20.4 to 26.4 VDC, 55 mA min. |
| Weight | 110 g max. |

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration |  <ul style="list-style-type: none"> • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

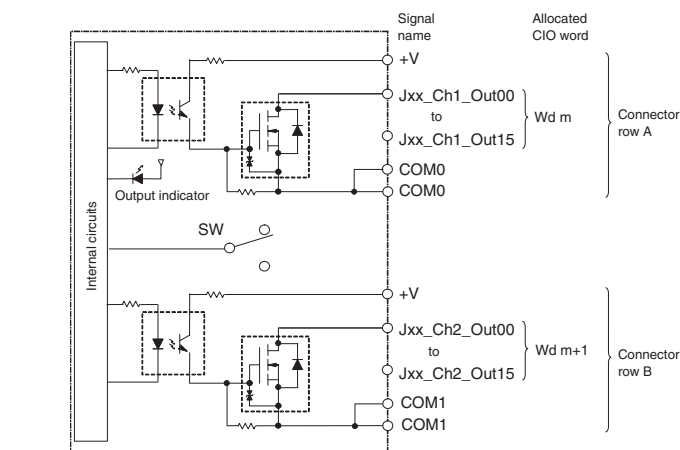
| | |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram |  <ul style="list-style-type: none"> • When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. • The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD231 Transistor Output Unit (32 Points)

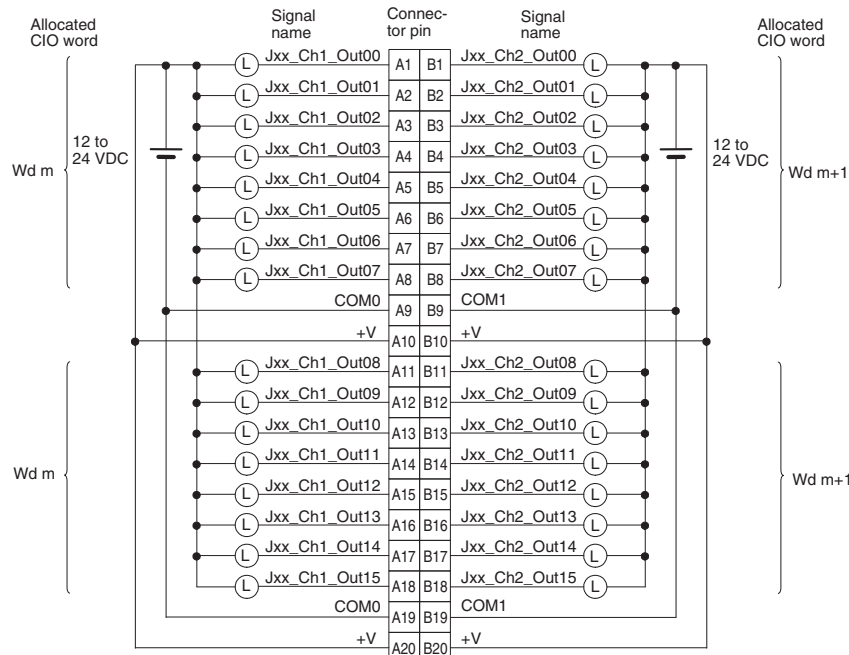
| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 32-point Transistor Output Unit with Fujitsu Connector (Sinking Outputs) |
| Model | CJ1W-OD231 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 2.0 A/common, 4.0 A/Unit |
| Maximum Inrush Current | 4.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.1 ms max. |
| OFF Response Time | 0.8 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 32 (16 points/common, 2 circuits) |
| Internal Current Consumption | 5 VDC 140 mA max. |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 30 mA min. |
| Weight | 70 g max. |
| Accessories | None |

Circuit Configuration



- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram

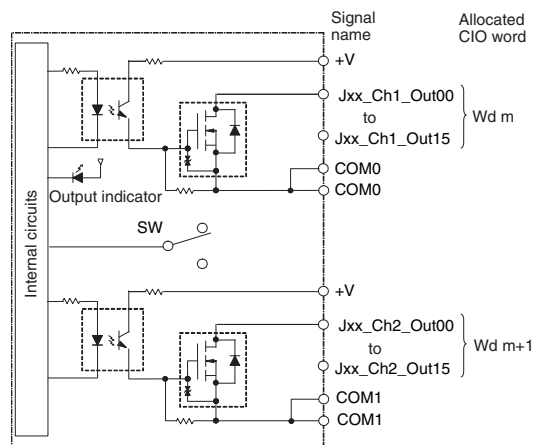


- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals A9 and A19 (COM0).
- Be sure to wire both terminals B9 and B19 (COM1).
- Be sure to wire both terminals A10 and A20 (+V).
- Be sure to wire both terminals B10 and B20 (+V).
- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD233 Transistor Output Unit (32 Points)

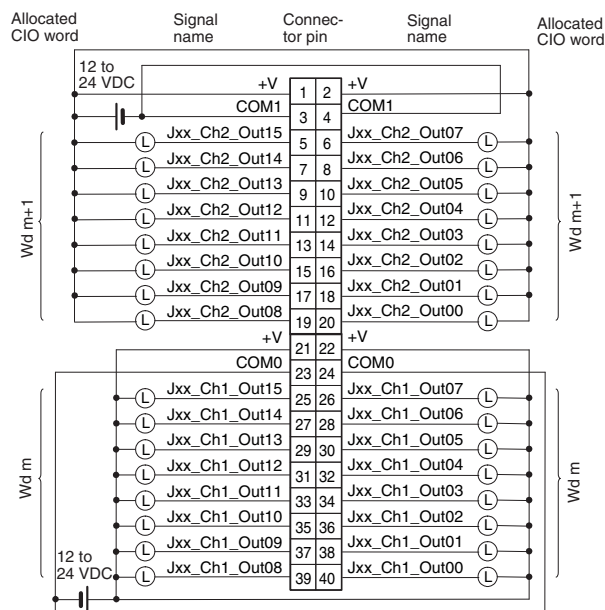
| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 32-point Transistor Output Unit with MIL Connector (Sinking Outputs) |
| Model | CJ1W-OD233 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 2 A/common, 4 A/Unit |
| Maximum Inrush Current | 4.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.1 ms max. |
| OFF Response Time | 0.8 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 32 (16 points/common, 2 circuits) |
| Internal Current Consumption | 140 mA max. |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 30 mA min. |
| Weight | 70 g max. |

Circuit Configuration



- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram

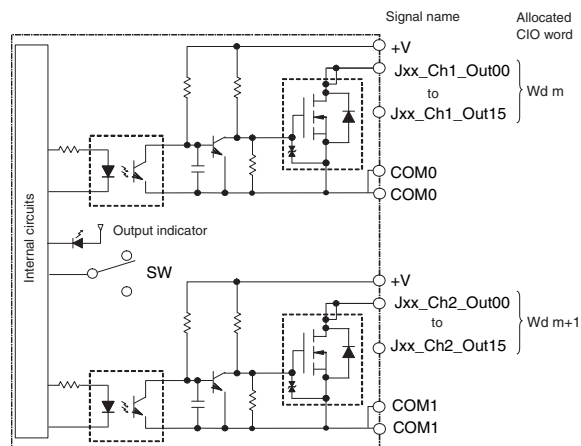


- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM0).
- Be sure to wire both terminals 3 and 4 (COM1).
- Be sure to wire both terminals 21 and 22 (+V).
- Be sure to wire both terminals 1 and 2 (+V).
- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD234 Transistor Output Unit (32 Points)

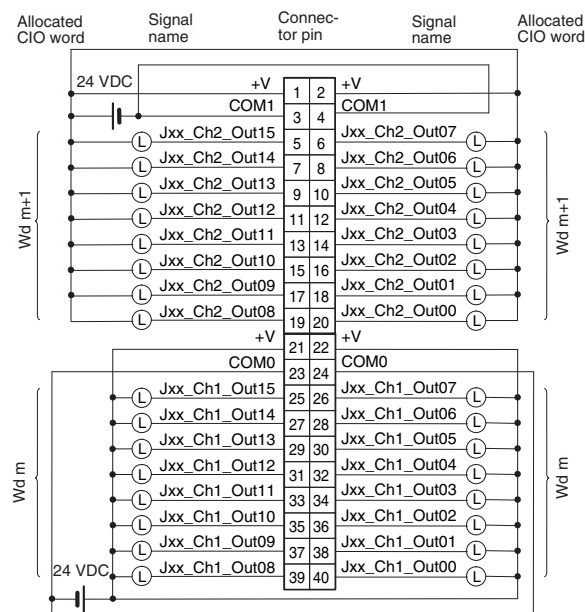
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|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 32-point Transistor Output Unit with MIL Connector (Sinking Outputs) |
| Model | CJ1W-OD234 |
| Rated Voltage | 24 VDC |
| Operating Load Voltage Range | 20.4 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 2 A/common, 4 A/Unit |
| Maximum Inrush Current | 4.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 15 μ s max. |
| OFF Response Time | 80 μ s max. |
| Insulation Resistance | 20 M Ω between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 32 (16 points/common, 2 circuits) |
| Internal Current Consumption | 220 mA max. |
| Fuse | None |
| External Power Supply | 20.4 to 26.4 VDC, 110 mA min. |
| Weight | 70 g max. |

Circuit Configuration



- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

External connection and terminal-device variable diagram



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM0).
- Be sure to wire both terminals 3 and 4 (COM1).
- Be sure to wire both terminals 21 and 22 (+V).
- Be sure to wire both terminals 1 and 2 (+V).
- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

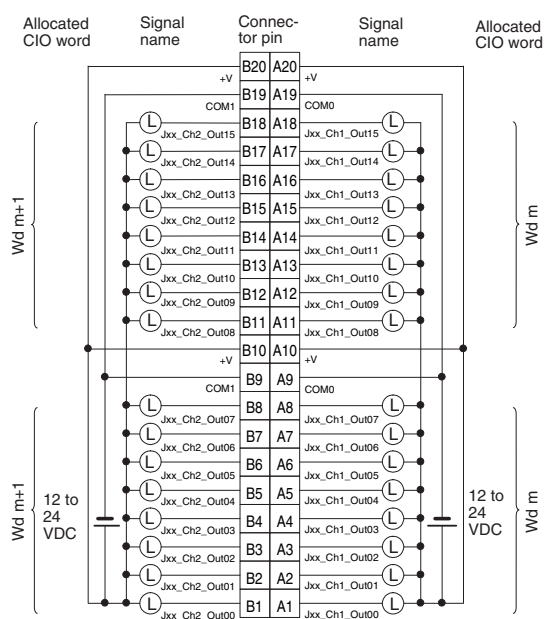
CJ1W-OD261 Transistor Output Unit (64 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 64-point Transistor Output Unit with Fujitsu Connectors (Sinking Outputs) |
| Model | CJ1W-OD261 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.3 A/point, 1.6 A/common, 6.4 A/Unit |
| Maximum Inrush Current | 3.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 64 (16 points/common, 4 circuits) |
| Internal Current Consumption | 5 VDC, 170 mA max. |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 50 mA min. |
| Weight | 110 g max. |
| Accessories | None |

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration | |
| | <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |

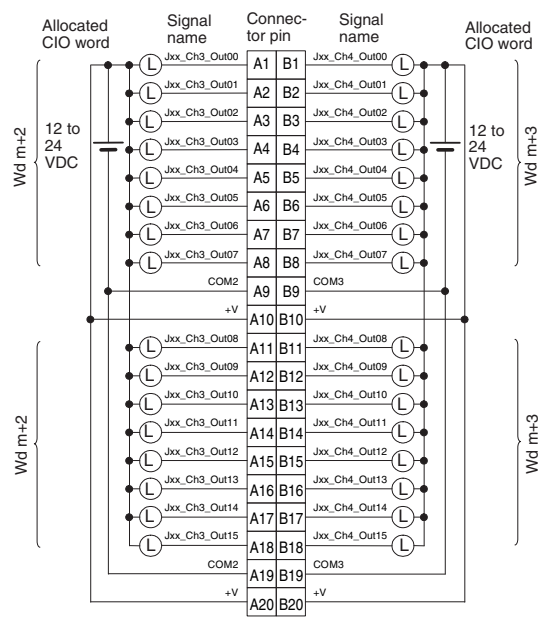
External connection and terminal-device variable diagram

CN1



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals A9 and A19 (COM0) of CN1.
- Be sure to wire both terminals B9 and B19 (COM1) of CN1.
- Be sure to wire both terminals A10 and A20 (+V) of CN1.
- Be sure to wire both terminals B10 and B20 (+V) of CN1.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

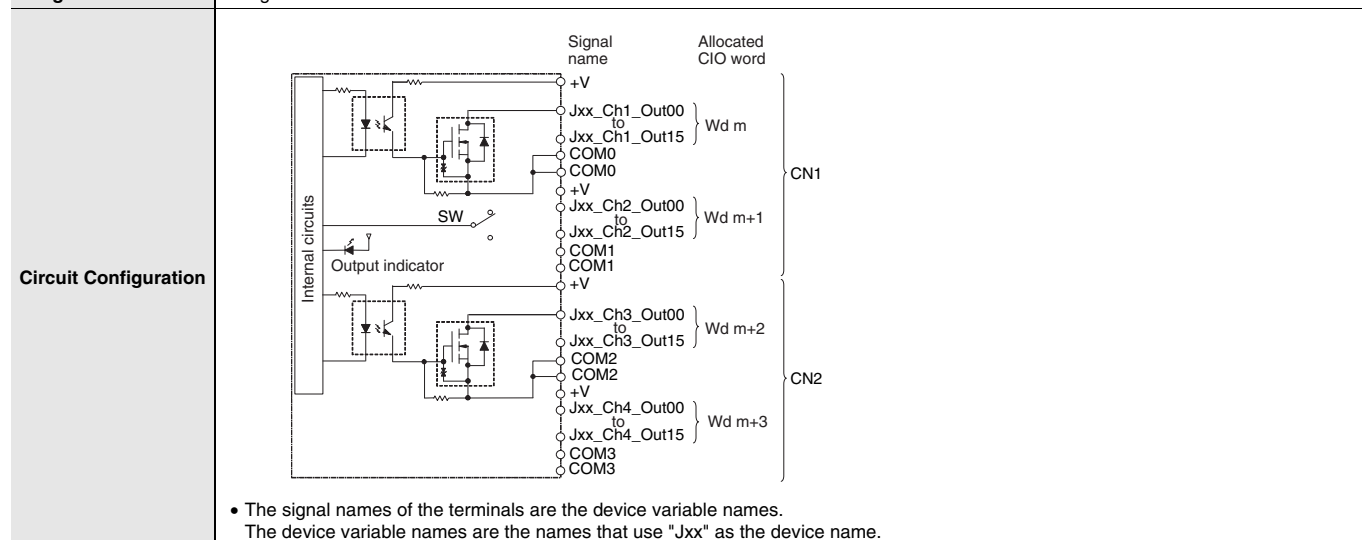
CN2



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals A9 and A19 (COM2) of CN2.
- Be sure to wire both terminals B9 and B19 (COM3) of CN2.
- Be sure to wire both terminals A10 and A20 (+V) of CN2.
- Be sure to wire both terminals B10 and B20 (+V) of CN2.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

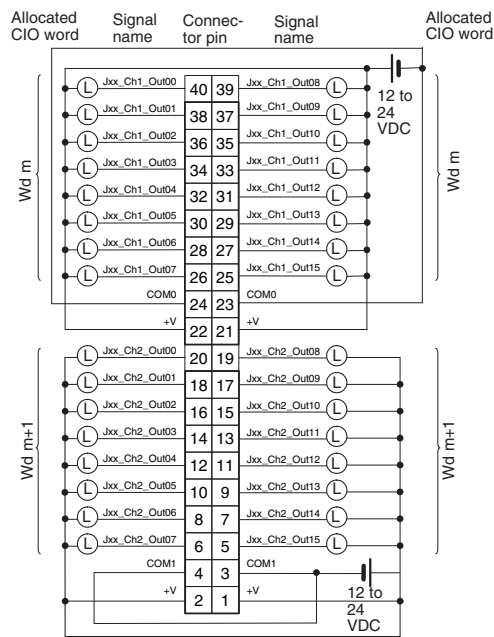
CJ1W-OD263 Transistor Output Unit (64 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 64-point Transistor Output Unit with MIL Connectors (Sinking Outputs) |
| Model | CJ1W-OD263 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.3 A/point, 1.6 A/common, 6.4 A/Unit |
| Maximum Inrush Current | 3.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 64 (16 points/common, 4 circuits) |
| Internal Current Consumption | 170 mA max. |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 50 mA min. |
| Weight | 110 g max. |



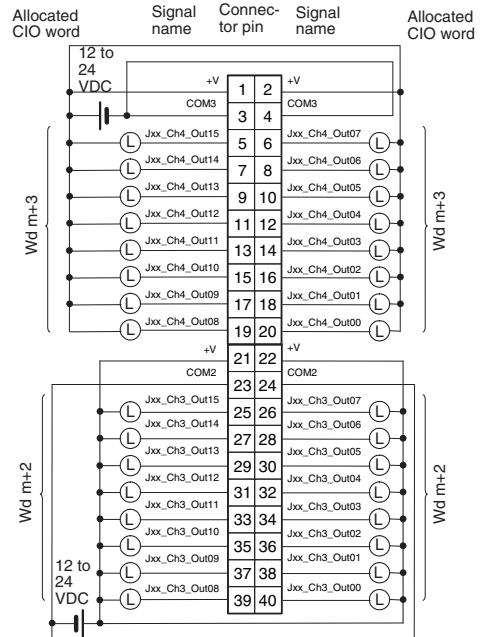
External connection and terminal-device variable diagram

CN1



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM0) of CN1.
- Be sure to wire both terminals 3 and 4 (COM1) of CN1.
- Be sure to wire both terminals 21 and 22 (+V) of CN1.
- Be sure to wire both terminals 1 and 2 (+V) of CN1.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

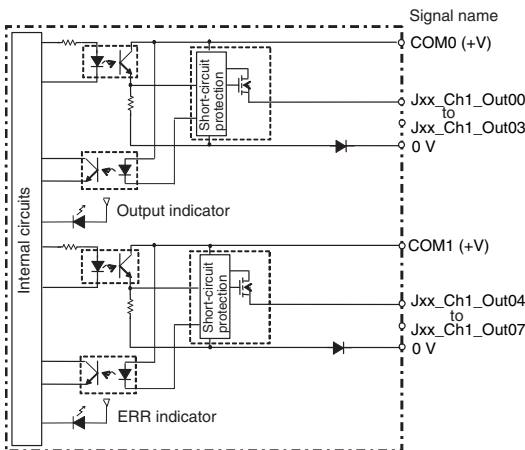
CN2

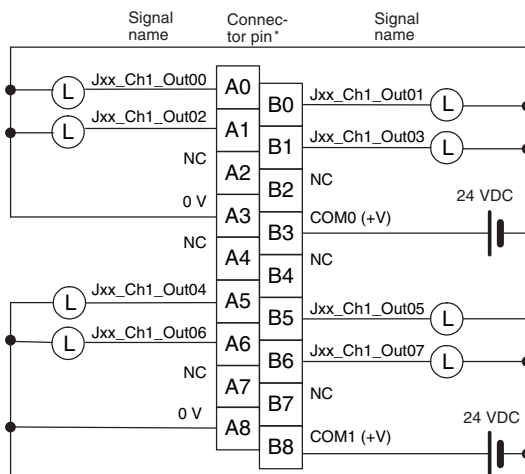


- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 23 and 24 (COM2) of CN2.
- Be sure to wire both terminals 3 and 4 (COM3) of CN2.
- Be sure to wire both terminals 21 and 22 (+V) of CN2.
- Be sure to wire both terminals 1 and 2 (+V) of CN2.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

CJ1W-OD202 Transistor Output Unit (8 Points)

| | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 8-point Transistor Output Unit with Terminal Block (Sourcing Outputs) |
| Model | CJ1W-OD202 |
| Rated Voltage | 24 VDC |
| Operating Load Voltage Range | 20.4 to 26.4 VDC |
| Maximum Load Current | 2 A/point, 8 A/Unit |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Load Short-circuit Protection | Detection current: 6 A min. Automatic restart after error clearance. |
| Line Disconnection Detection | Detection current: 200 mA |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 8 (4 points/common, 2 circuits) |
| Internal Current Consumption | 110 mA max. |
| Fuse | None |
| External Power Supply | 20.4 to 26.4 VDC, 50 mA min. |
| Weight | 120 g max. |

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration |  <ul style="list-style-type: none"> When overcurrent or line disconnection is detected, the ERR indicator will light, and the corresponding bit (two points per bit) in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

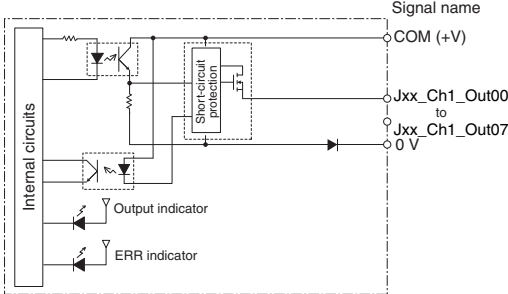
| | |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram |  <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

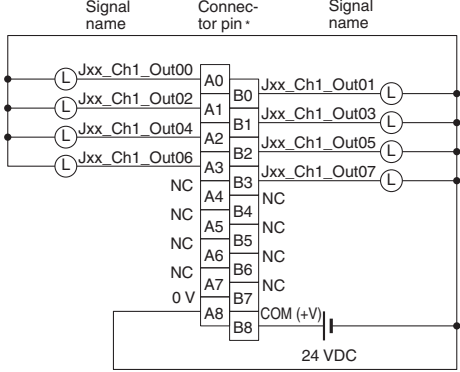
* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD204 Transistor Output Unit (8 Points)

| | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 8-point Transistor Output Unit with Terminal Block (Sourcing Outputs) |
| Model | CJ1W-OD204 |
| Rated Voltage | 24 VDC |
| Operating Load Voltage Range | 20.4 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 4.0 A/Unit |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Load Short-circuit Protection | Detection current: 0.7 to 2.5 A Automatic restart after error clearance. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 8 (8 points/common, 1 circuit) |
| Internal Current Consumption | 5 VDC, 100 mA max. |
| Fuse | None |
| External Power Supply | 20.4 to 26.4 VDC, 40 mA min. |
| Weight | 120 g max. |

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration |  <ul style="list-style-type: none"> When overcurrent is detected, the ERR indicator will light, and the corresponding bit in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

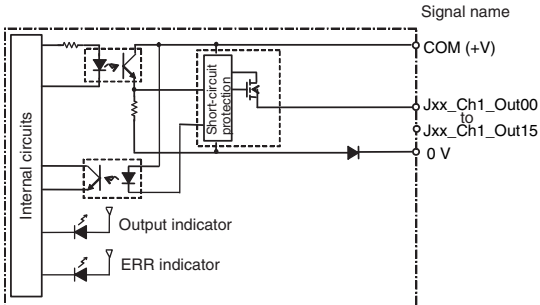
| | |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram |  <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

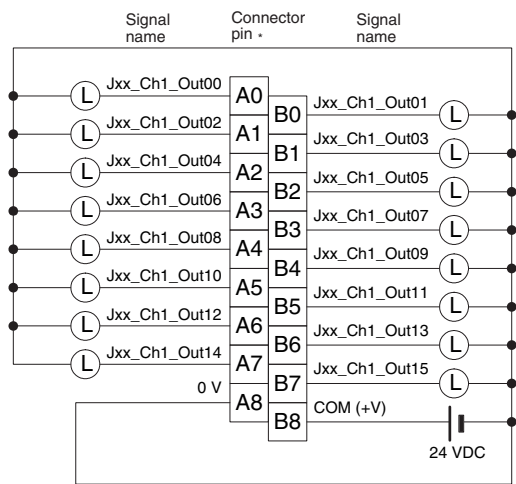
* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

Note: Although 16 I/O bits (1 word) are allocated, only 8 of these can be used for external I/O.

CJ1W-OD212 Transistor Output Unit (16 Points)

| | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 16-point Transistor Output Unit with Terminal Block (Sourcing Outputs) |
| Model | CJ1W-OD212 |
| Rated Voltage | 24 VDC |
| Operating Load Voltage Range | 20.4 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 5.0 A/Unit |
| Maximum Inrush Current | 0.1 mA max. |
| Leakage Current | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Load Short-circuit Protection | Detection current: 0.7 to 2.5 A Automatic restart after error clearance. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 16 (16 points/common, 1 circuit) |
| Internal Current Consumption | 5 VDC, 100 mA max. |
| External Power Supply | 20.4 to 26.4 VDC, 40 mA min. |
| Weight | 120 g max. |

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration |  <ul style="list-style-type: none"> When overcurrent is detected, the ERR indicator will light, and the corresponding bit in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External connection and terminal-device variable diagram |  <ul style="list-style-type: none"> When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

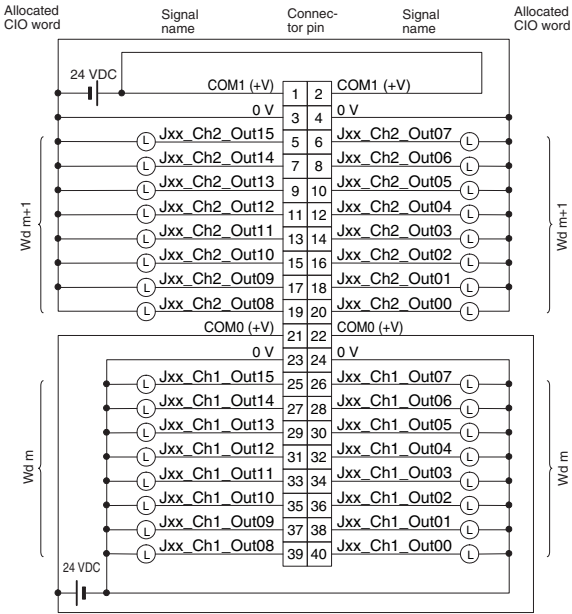
* Terminal numbers A0 to A8 and B0 to B8 are used in the external connection and terminal-device variable diagrams. They are not printed on the Units.

CJ1W-OD232 Transistor Output Unit (32 Points)

| | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 32-point Transistor Output Unit with MIL Connector (Sourcing Outputs) |
| Model | CJ1W-OD232 |
| Rated Voltage | 24 VDC |
| Operating Load Voltage Range | 20.4 to 26.4 VDC |
| Maximum Load Current | 0.5 A/point, 2.0 A/common, 4.0 A/Unit |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Load Short-circuit Protection | Detection current: 0.7 to 2.5 A Automatic restart after error clearance. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 32 (16 points/common, 2 circuits) |
| Internal Current Consumption | 5 VDC 150 mA max. |
| External Power Supply | 20.4 to 26.4 VDC, 70 mA min. |
| Weight | 80 g max. |
| Accessories | None |

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration | <p>Signal name Allocated CIO word</p> <p>COM0 (+V) Wd m</p> <p>COM0 (+V) Wd m</p> <p>Jxx_Ch1_Out00 } Wd m</p> <p>Jxx_Ch1_Out15 }</p> <p>0 V</p> <p>COM1 (+V) Wd m+1</p> <p>COM1 (+V) Wd m+1</p> <p>Jxx_Ch2_Out00 } Wd m+1</p> <p>Jxx_Ch2_Out15 }</p> <p>0 V</p> <p>Internal circuits</p> <p>SW</p> <p>Output indicator</p> <p>ERR indicator</p> |
| | <ul style="list-style-type: none"> When overcurrent is detected, the ERR indicator will light, and the corresponding bit (bit allocated for each common) in the Basic I/O Unit Information Area (A050 to A069) will change to TRUE. The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |

External connection
and terminal-device
variable diagram



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 21 and 22 (COM0 (+V)).
- Be sure to wire both terminals 1 and 2 (COM1 (+V)).
- Be sure to wire both terminals 3 and 4 (0 V).
- Be sure to wire both terminals 23 and 24 (0 V).
- The signal names of the terminals are the device variable names.
The device variable names are the names that use "Jxx" as the device name.

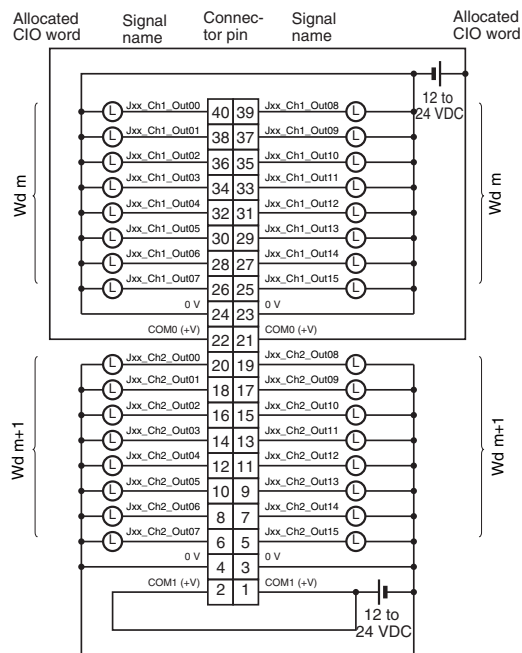
CJ1W-OD262 Transistor Output Unit (64 Points)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Name | 64-point Transistor Output Unit with MIL Connectors (Sourcing Outputs) |
| Model | CJ1W-OD262 |
| Rated Voltage | 12 to 24 VDC |
| Operating Load Voltage Range | 10.2 to 26.4 VDC |
| Maximum Load Current | 0.3 A/point, 1.6 A/common, 6.4 A/Unit |
| Maximum Inrush Current | 3.0 A/point, 10 ms max. |
| Leakage Current | 0.1 mA max. |
| Residual Voltage | 1.5 V max. |
| ON Response Time | 0.5 ms max. |
| OFF Response Time | 1.0 ms max. |
| Insulation Resistance | 20 MΩ between the external terminals and the GR terminal (100 VDC) |
| Dielectric Strength | 1,000 VAC between the external terminals and the GR terminal for 1 minute at a leakage current of 10 mA max. |
| Number of Circuits | 64 (16 points/common, 4 circuits) |
| Internal Current Consumption | 170 mA max. (5 VDC) |
| Fuse | None |
| External Power Supply | 10.2 to 26.4 VDC, 50 mA min. |
| Weight | 110 g max. |
| Accessories | None |

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Configuration | |
| | <ul style="list-style-type: none"> The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name. |

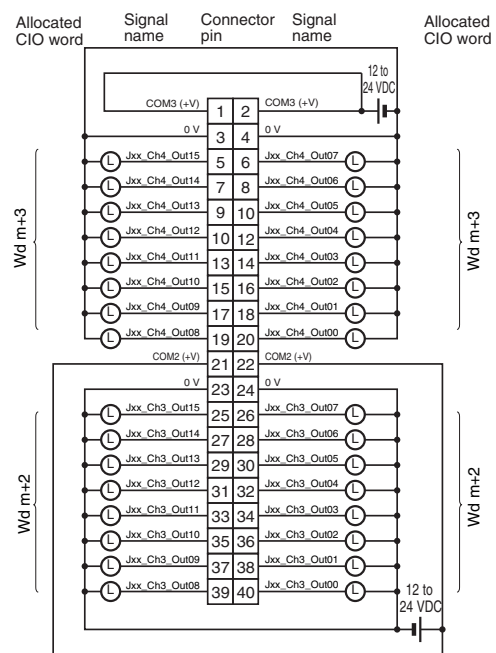
External connection and terminal-device variable diagram

CN1



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 21 and 22 (COM0 (+V)) of CN1.
- Be sure to wire both terminals 1 and 2 (COM1 (+V)) of CN1.
- Be sure to wire both terminals 23 and 24 (0 V) of CN1.
- Be sure to wire both terminals 3 and 4 (0 V) of CN1.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

CN2



- When wiring, pay careful attention to the polarity of the external power supply. The load may operate incorrectly if the polarity is reversed.
- Be sure to wire both terminals 21 and 22 (COM2 (+V)) of CN2.
- Be sure to wire both terminals 1 and 2 (COM3 (+V)) of CN2.
- Be sure to wire both terminals 23 and 24 (0 V) of CN2.
- Be sure to wire both terminals 3 and 4 (0 V) of CN2.
- The signal names of the terminals are the device variable names. The device variable names are the names that use "Jxx" as the device name.

Bit Allocations for Output Unit

8-point Output Unit

| Allocated CIO word | | Signal name (CJ/NJ) |
|--------------------|-----|---------------------|
| CIO | Bit | |
| Wd m (Output) | 00 | OUT0/Jxx_Ch1_Out00 |
| | 01 | OUT1/Jxx_Ch1_Out01 |
| | : | : |
| | 06 | OUT6/Jxx_Ch1_Out06 |
| | 07 | OUT7/Jxx_Ch1_Out07 |
| | 08 | — |
| | 09 | — |
| | : | : |
| | 14 | — |
| | 15 | — |

32-point Output Unit

| Allocated CIO word | | Signal name (CJ/NJ) |
|--------------------|-----|---------------------|
| CIO | Bit | |
| Wd m (Output) | 00 | OUT0/Jxx_Ch1_Out00 |
| | 01 | OUT1/Jxx_Ch1_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch1_Out14 |
| | 15 | OUT15/Jxx_Ch1_Out15 |
| Wd m+1 (Output) | 00 | OUT0/Jxx_Ch2_Out00 |
| | 01 | OUT1/Jxx_Ch2_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch2_Out14 |
| | 15 | OUT15/Jxx_Ch2_Out15 |

16-point Output Unit

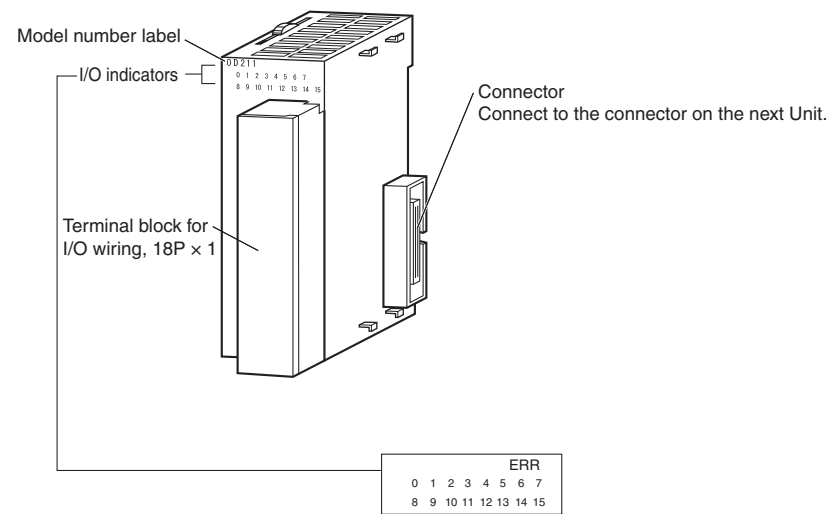
| Allocated CIO word | | Signal name (CJ/NJ) |
|--------------------|-----|---------------------|
| CIO | Bit | |
| Wd m (Output) | 00 | OUT0/Jxx_Ch1_Out00 |
| | 01 | OUT1/Jxx_Ch1_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch1_Out14 |
| | 15 | OUT15/Jxx_Ch1_Out15 |

64-point Output Unit

| Allocated CIO word | | Signal name (CJ/NJ) |
|--------------------|-----|---------------------|
| CIO | Bit | |
| Wd m (Output) | 00 | OUT0/Jxx_Ch1_Out00 |
| | 01 | OUT1/Jxx_Ch1_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch1_Out14 |
| | 15 | OUT15/Jxx_Ch1_Out15 |
| Wd m+1 (Output) | 00 | OUT0/Jxx_Ch2_Out00 |
| | 01 | OUT1/Jxx_Ch2_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch2_Out14 |
| | 15 | OUT15/Jxx_Ch2_Out15 |
| Wd m+2 (Output) | 00 | OUT0/Jxx_Ch3_Out00 |
| | 01 | OUT1/Jxx_Ch3_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch3_Out14 |
| | 15 | OUT15/Jxx_Ch3_Out15 |
| Wd m+3 (Output) | 00 | OUT0/Jxx_Ch4_Out00 |
| | 01 | OUT1/Jxx_Ch4_Out01 |
| | : | : |
| | 14 | OUT14/Jxx_Ch4_Out14 |
| | 15 | OUT15/Jxx_Ch4_Out15 |

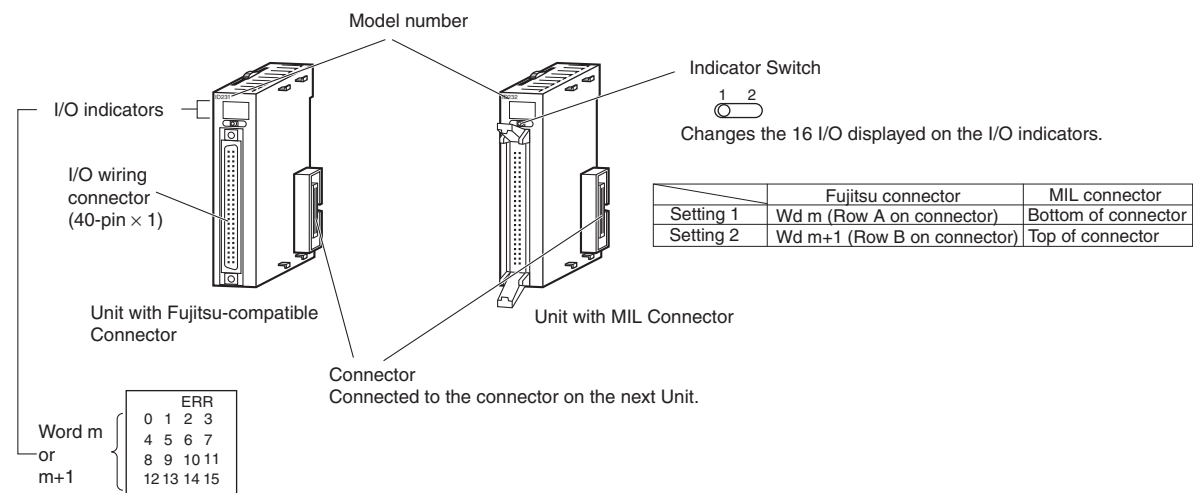
External Interface

8-point/16-point Units (18-point Terminal Blocks)



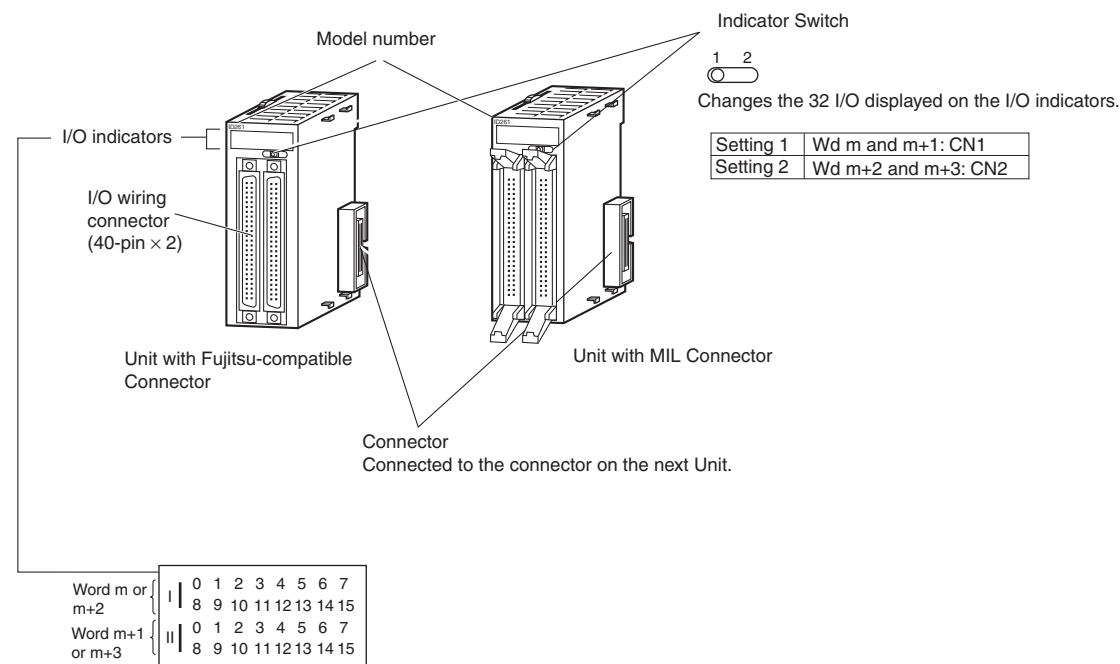
Note: The CJ1W-OD202, CJ1W-OD204, and CJ1W-OD212 also have an ERR indicator for the load short-circuit alarm.

32-point Units (Models with 40-point Fujitsu Connector or MIL Connector)



Note: Only the CJ1W-OD232 has an ERR indicator for the load short-circuit alarm.

64-point Units (Models with Two 40-point Fujitsu Connectors or MIL Connector)



Wiring Basic I/O Units with Terminal Blocks

Electric Wires

The following wire gauges are recommended.

| Terminal Block Connector | Wire Size |
|--------------------------|----------------------------------------------|
| 18-terminal | AWG 22 to 18 (0.32 to 0.82 mm ²) |

Crimp terminals

Use crimp terminals (M3) having the dimensions shown below.

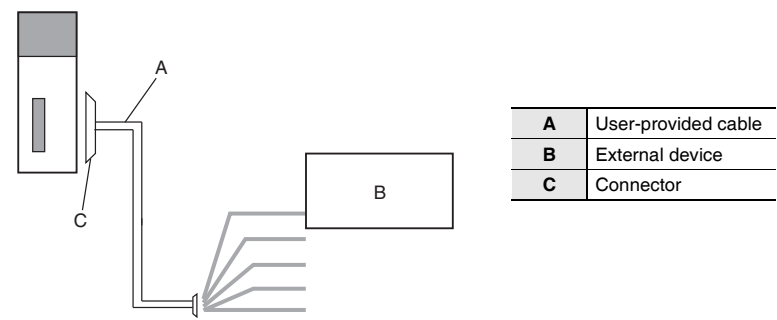


I/O Unit Wiring Methods

An I/O Unit can be connected to an external device by any of the following three methods.

1. User-provided Cable

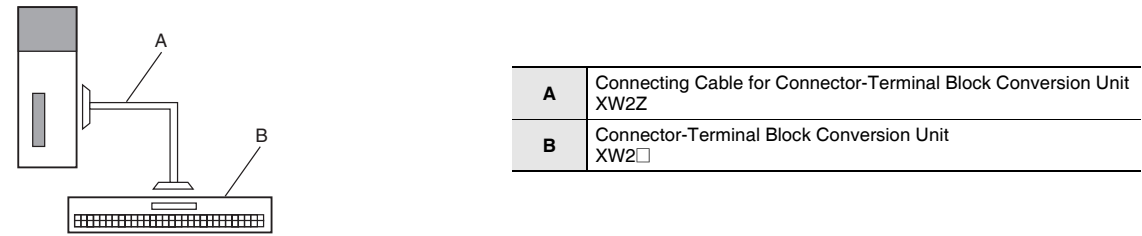
An I/O Unit can be directly connected to an external device by using a connector.



2. Connector-Terminal Block Conversion Unit

Use a Connecting Cable to connect to a Connector-Terminal Block Conversion Unit.

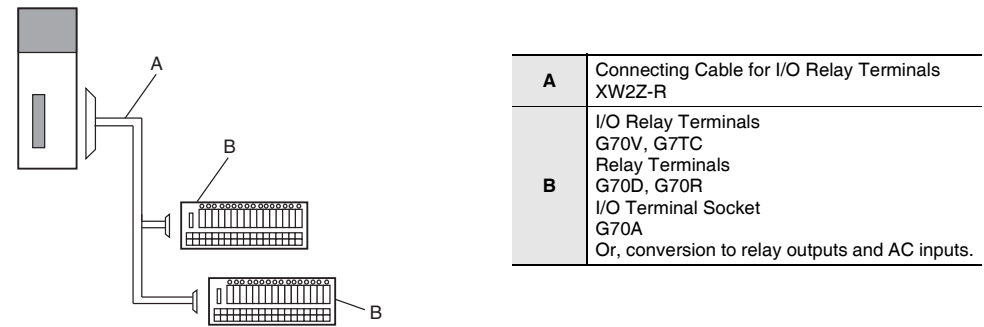
Converting the I/O Unit connector to a screw terminal block or push-in terminal block makes it easy to connect external devices.



3. I/O Relay Terminal

Use a Connecting Cable to connect to an I/O Relay Terminal.

The I/O specifications can be converted to relay outputs and AC inputs by connecting the I/O Relay Terminal to an I/O Unit.



1. Using User-made Cables with Connector

Available Connectors

Use the following connectors when assembling a connector and cable.

32- and 64-point Basic I/O Units with Fujitsu-compatible Connectors

Applicable Units

| Model | Specifications | Pins |
|------------|---------------------------------------------------------|------|
| CJ1W-OD231 | Transistor Output Unit with Sinking Outputs, 32 outputs | 40 |
| CJ1W-OD261 | Transistor Output Unit with Sinking Outputs, 64 outputs | |

Applicable Cable-side Connectors

| Connection | Pins | OMRON set | Fujitsu parts |
|-----------------|------|------------|---------------------------------------------------------------------------------|
| Solder-type | 40 | C500-CE404 | Socket: FCN-361J040-AU Connector cover: FCN-360C040-J2 |
| Crimped | 40 | C500-CE405 | Socket: FCN-363J040 Connector cover: FCN-360C040-J2 Contacts: FCN-363J-AU |
| Pressure-welded | 40 | C500-CE403 | FCN-367J040-AU/F |

32- and 64-point Basic I/O Units with MIL Connectors

Applicable Units

| Model | Specifications | Pins |
|--------------------------|----------------------------------------------------------|------|
| CJ1W-OD232 | Transistor Output Unit with sourcing outputs, 32 outputs | 40 |
| CJ1W-OD262 | Transistor Output Unit with sourcing outputs, 64 outputs | |
| CJ1W-OD233 CJ1W-OD234 | Transistor Output Unit with sinking outputs, 32 outputs | |
| CJ1W-OD263 | Transistor Output Unit with sinking outputs, 64 outputs | |
| | | |

Applicable Cable-side Connectors

| Connection | Pins | OMRON set | DDK parts |
|-----------------|------|--------------------------------------------------------------------------------------------------------------------|----------------|
| Pressure-welded | 40 | XG4M-4030-T *1 | FRC5-A040-3T0S |
| | 40 | XG5N-401 *2 | HU-40OS2-001 |
| Crimped | — | Crimp Contacts for XG5N *3 XG5W-0232 (loose contacts: 100 pieces) XG5W-0232-R (reel contacts: 10,000 pieces) | HU-111S |

*1. Socket and Stain Relief set.

*2. Crimp Contacts (XG5W-0232) are sold separately.

*3. Applicable wire size is AWG 28 to 24. For applicable conductor construction and more information, visit the OMRON website at www.ia.omron.com.

Wire Size

We recommend using cable with wire gauges of AWG 28 to 24 (0.08 to 0.2 mm²). Use cable with external wire diameters of 1.61 mm max.

Crimping Tools

The following models are recommended for crimping tools and pressure-welding tools for Fujitsu connectors.

Tools for Crimped Connectors (Fujitsu Component)

| Product Name | Model |
|-------------------------|-----------------|
| Hand Crimping Tool | FCN-363T-T005/H |
| Contact Withdrawal Tool | FCN-360T-T001/H |

Tools for Pressure-welded Connectors (Fujitsu Component)

| Product Name | Model |
|---------------|-----------------|
| Hand Press | FCN-707T-T101/H |
| Cable Cutter | FCN-707T-T001/H |
| Locator Plate | FCN-367T-T012/H |

The following models are recommended for tools for OMRON MIL connectors.

Tools for Pressure-welded Connectors (OMRON)

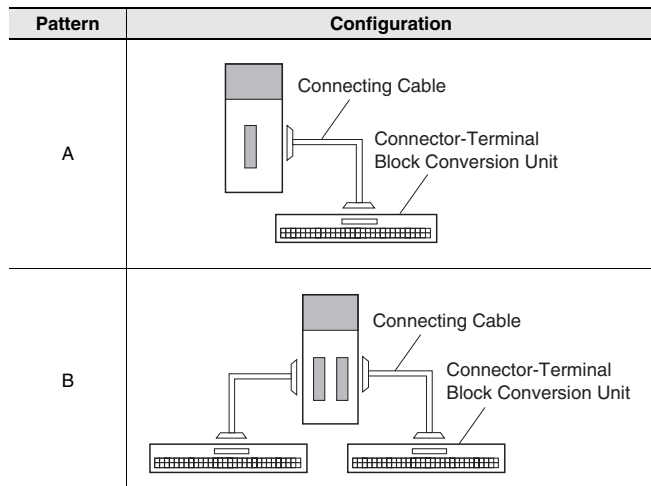
| Product Name | Model |
|-----------------------|-----------|
| Pressure-welding Tool | XY2B-0002 |
| Attachment | XY2B-1007 |

Tools for Crimped Connectors (OMRON)

| Product Name | Model |
|----------------------|-----------|
| Manual Crimping Tool | XY2B-7007 |

2. Connecting Connector-Terminal Block Conversion Units

Connection Patterns for Connector-Terminal Block Conversion Units



Combination of I/O Units with Connector-Terminal Block Conversion Units

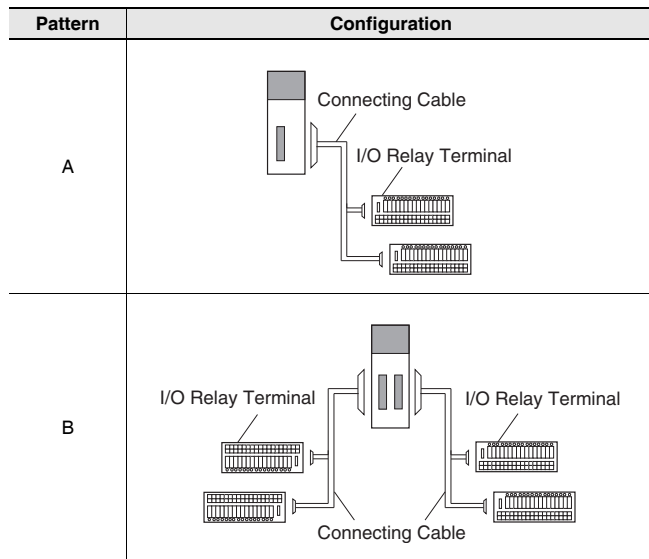
| Unit | I/O capacity | Number of connectors | Polarity | Connection pattern | Connecting Cable * | Connector-Terminal Block Conversion Unit | Wiring method | Common terminals |
|------------|--------------|----------------------|----------|--------------------|--------------------|------------------------------------------|-------------------------|------------------|
| CJ1W-OD231 | 32 outputs | 1 Fujitsu connector | NPN | A | XW2Z-□□□B | XW2K-40G-O32B | Push-In Plus | No |
| | | | | | | XW2K-40G-O32B-OUT | Push-In Plus | Yes |
| | | | | | | XW2R-J34GD-C3 | Phillips screw | No |
| | | | | | | XW2R-E34GD-C3 | Slotted screw (rise up) | No |
| CJ1W-OD232 | 32 outputs | 1 MIL connector | PNP | A | XW2Z-□□□K | XW2K-40G-O32C | Push-In Plus | No |
| | | | | | | XW2K-40G-O32C-OUT | Push-In Plus | Yes |
| | | | | | | XW2R-J34GD-C4 | Phillips screw | No |
| | | | | | | XW2R-E34GD-C4 | Slotted screw (rise up) | No |
| CJ1W-OD233 | 32 outputs | 1 MIL connector | NPN | A | XW2Z-□□□K | XW2K-40G-O32C | Push-In Plus | No |
| | | | | | | XW2K-40G-O32C-OUT | Push-In Plus | Yes |
| | | | | | | XW2R-J34GD-C4 | Phillips screw | No |
| | | | | | | XW2R-E34GD-C4 | Slotted screw (rise up) | No |
| CJ1W-OD234 | 32 outputs | 1 MIL connector | NPN | A | XW2Z-□□□K | XW2K-40G-O32C | Push-In Plus | No |
| | | | | | | XW2K-40G-O32C-OUT | Push-In Plus | Yes |
| | | | | | | XW2R-J34GD-C4 | Phillips screw | No |
| | | | | | | XW2R-E34GD-C4 | Slotted screw (rise up) | No |
| CJ1W-OD261 | 64 outputs | 2 Fujitsu connectors | NPN | B | XW2Z-□□□B (2 pcs) | XW2K-40G-O32B (2 pcs) | Push-In Plus | No |
| | | | | | | XW2K-40G-O32B-OUT (2 pcs) | Push-In Plus | No |
| | | | | | | XW2R-J34GD-C3 (2 pcs) | Phillips screw | Yes |
| | | | | | | XW2R-E34GD-C3 (2 pcs) | Slotted screw (rise up) | No |
| CJ1W-OD262 | 64 outputs | 2 MIL connectors | PNP | B | XW2Z-□□□K (2 pcs) | XW2K-40G-O32C (2 pcs) | Push-In Plus | No |
| | | | | | | XW2K-40G-O32C-OUT (2 pcs) | Push-In Plus | No |
| | | | | | | XW2R-J34GD-C4 (2 pcs) | Phillips screw | Yes |
| | | | | | | XW2R-E34GD-C4 (2 pcs) | Slotted screw (rise up) | No |
| CJ1W-OD263 | 64 outputs | 2 MIL connectors | NPN | B | XW2Z-□□□K (2 pcs) | XW2K-40G-O32C (2 pcs) | Push-In Plus | No |
| | | | | | | XW2K-40G-O32C-OUT (2 pcs) | Push-In Plus | Yes |
| | | | | | | XW2R-J34GD-C4 (2 pcs) | Phillips screw | No |
| | | | | | | XW2R-E34GD-C4 (2 pcs) | Slotted screw (rise up) | No |

* The box □ is replaced by the cable length.

Note: For details, refer to the XW2K series Datasheet (Cat. No. G152) and XW2R series catalog (Cat. No. G077).

3. Connecting I/O Relay Terminals

Connection Patterns for I/O Relay Terminals



Combination of I/O Units with I/O Relay Terminals and Connecting Cables

| I/O Units | | | | Connection pattern | Connecting Cables | | I/O Relay Terminals | | | |
|------------|--------------|-----------------------------|----------------|--------------------|-------------------|-------------------|---------------------|------------|-------------------|----------------|
| Model | I/O capacity | External connectors | Polarity | | Model *1 | Quantity required | Model | I/O points | Quantity required | Wiring method |
| CJ1W-OD231 | 32 outputs | 1 Fujitsu connector (40 p) | Sinking (NPN) | A | XW2Z-RO□C-□ | 1 | G70V-SOC16P(-C4) | 16 | 2 | Push-in spring |
| | | | | | | | G7TC-OC16 | 16 | | Screw terminal |
| | | | | | | | G70D-SOC/FOM16 | 16 | | |
| | | | | | | | G70D-VSOC16/VFOM16 | 16 | | |
| | | | | | | | G70A-ZOC16-3 *3 | 16 | | |
| | | | | | | | G70R-SOC08 *2 | 8 | | |
| CJ1W-OD232 | 32 outputs | 1 MIL connector (40 p) | Sourcing (PNP) | A | XW2Z-RO□-□-D1 | 1 | G70A-ZOC16-4 *3 | 16 | 2 | Screw terminal |
| | | | | | XW2Z-RI□-□-D1 | 1 | G70D-SOC/FOM16-1 | 16 | | |
| | | | | | | | G7TC-OC16-1 | 16 | | |
| CJ1W-OD233 | 32 outputs | 1 MIL connector (40 p) | Sinking (NPN) | A | XW2Z-RO□-□-D1 | 1 | G70V-SOC16P(-C4) | 16 | 2 | Push-in spring |
| | | | | | | | G7TC-OC16 | 16 | | Screw terminal |
| | | | | | | | G70D-SOC/FOM16 | 16 | | |
| | | | | | | | G70D-VSOC16/VFOM16 | 16 | | |
| | | | | | | | G70A-ZOC16-3 *3 | 16 | | |
| | | | | | | | G70R-SOC08 *2 | 8 | | |
| CJ1W-OD234 | 32 outputs | 1 MIL connector (40 p) | Sinking (NPN) | A | XW2Z-RO□C-□ | 1 | G70V-SOC16P(-C4) | 16 | 2 | Push-in spring |
| | | | | | | | G7TC-OC16 | 16 | | Screw terminal |
| | | | | | | | G70D-SOC/FOM16 | 16 | | |
| | | | | | | | G70D-VSOC16/VFOM16 | 16 | | |
| | | | | | | | G70A-ZOC16-3 *3 | 16 | | |
| | | | | | | | G70R-SOC08 *2 | 8 | | |
| CJ1W-OD261 | 64 outputs | 2 Fujitsu connectors (40 p) | Sinking (NPN) | B | XW2Z-RO□C-□ | 2 | G70V-SOC16P(-C4) | 16 | 4 | Push-in spring |
| | | | | | | | G7TC-OC16 | 16 | | Screw terminal |
| | | | | | | | G70D-SOC/FOM16 | 16 | | |
| | | | | | | | G70D-VSOC16/VFOM16 | 16 | | |
| | | | | | | | G70A-ZOC16-3 *3 | 16 | | |
| | | | | | | | G70R-SOC08 *2 | 8 | | |
| CJ1W-OD262 | 64 outputs | 2 MIL connectors (40 p) | Sourcing (PNP) | B | XW2Z-RO□-□-D1 | 2 | G70V-SOC16P-1(-C4) | 16 | 4 | Push-in spring |
| | | | | | XW2Z-RI□-□-D1 | 2 | G70A-ZOC16-4 *3 | 16 | | Screw terminal |
| | | | | | | | G70D-SOC/FOM16-1 | 16 | | |
| | | | | | | | G7TC-OC16-1 | 16 | | |
| CJ1W-OD263 | 64 outputs | 2 MIL connectors (40 p) | Sinking (NPN) | B | XW2Z-RO□-□-D1 | 2 | G70V-SOC16P(-C4) | 16 | 4 | Push-in spring |
| | | | | | | | G7TC-OC16 | 16 | | Screw terminal |
| | | | | | | | G70D-SOC/FOM16 | 16 | | |
| | | | | | | | G70D-VSOC16/VFOM16 | 16 | | |
| | | | | | | | G70A-ZOC16-3 *3 | 16 | | |
| | | | | | | | G70R-SOC08 *2 | 8 | | |

*1. The box □ is replaced by the cable length.

*2. In addition to the G70R-SOC08, 8-point output G7TC-OC08 and G70D-SOC08 models are available.

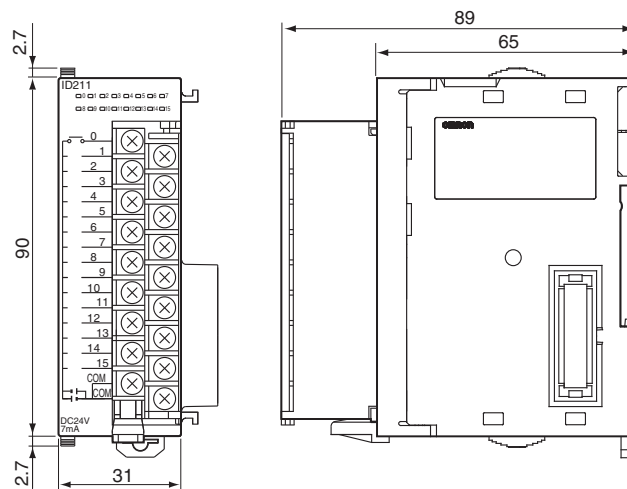
*3. The G70A-ZOC16-3/4 has I/O terminal sockets. Mounted relays are sold separately. In addition, an G70A-ZOC16-3/4 will be SPDT × 16 points with G2R relays.

Dimensions

(Unit: mm)

8-point/16-point Units (18-point Terminal Blocks)

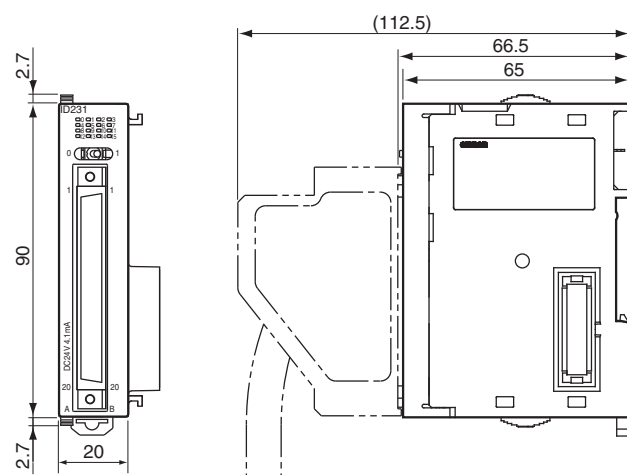
CJ1W-OC201/ OC211/ OA201/ OD201 / OD202/ OD203/ OD204/ OD211/ OD213 / OD212



32-point Unit (Output Units)

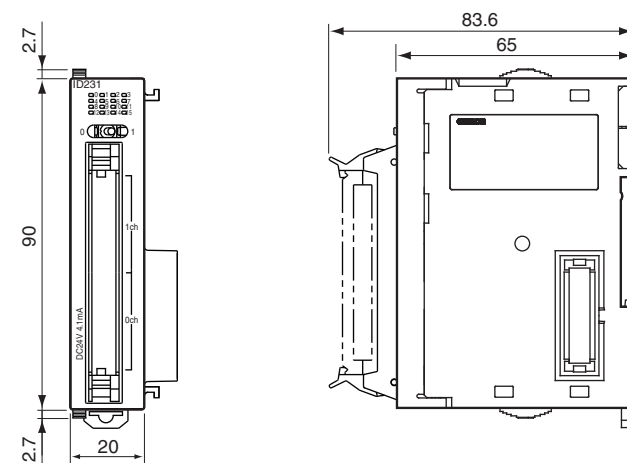
With Fujitsu-Compatible Connector (40-pin × 1)

CJ1W-OD231



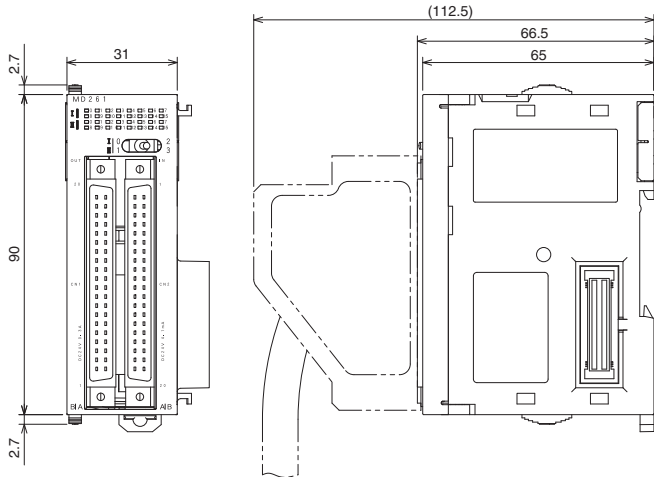
With MIL Connector (40-pin × 1)

CJ1W-OD232 / OD233 / OD234

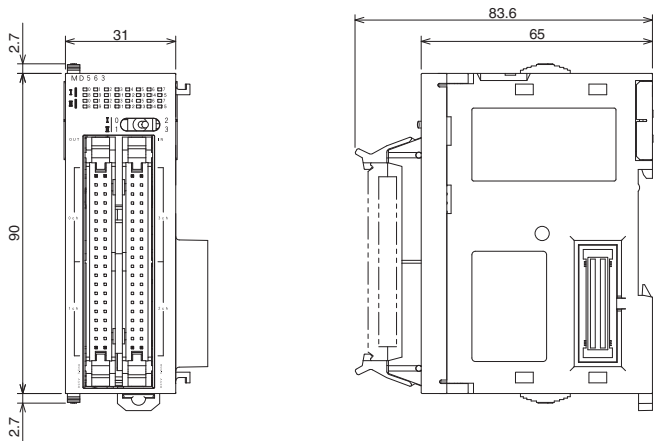


64-point Units (Output Units)

With Fujitsu-Compatible Connector (40-pin × 2)
CJ1W-OD261



With MIL Connector (40-pin × 2)
CJ1W-OD262 / OD263



Related Manuals

| Name | Cat. No. | Contents |
|--------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CJ-series CJ2 CPU Unit Hardware User's Manual CJ2H-CPU6□-EIP CJ2H-CPU6□ CJ2M-CPU□□ | W472 | Describes the following for CJ2 CPU Units: <ul style="list-style-type: none"> • Overview and features • Basic system configuration • Part nomenclature and functions • Mounting and setting procedure • Remedies for errors • Also refer to the <i>Software User's Manual</i> (W473). |
| CJ Series CJ1H-CPU□□H-R, CJ1G/H-CPU□□H, CJ1G-CPU□□P, CJ1G-CPU□□, CJ1M-CPU□□ Programmable Controllers Operation Manual | W393 | Provides an outlines of and describes the design, installation, maintenance, and other basic operations for the CJ-series PLCs. |
| NJ-series CPU Unit Hardware User's Manual NJ501-□□□□ | W500 | An introduction to the entire NJ-series system is provided along with the following information on a Controller built with an NJ501 CPU Unit. <ul style="list-style-type: none"> • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Maintenance and inspection Use this manual together with the NJ-series CPU Unit Software User's Manual (Cat. No. W501). |

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