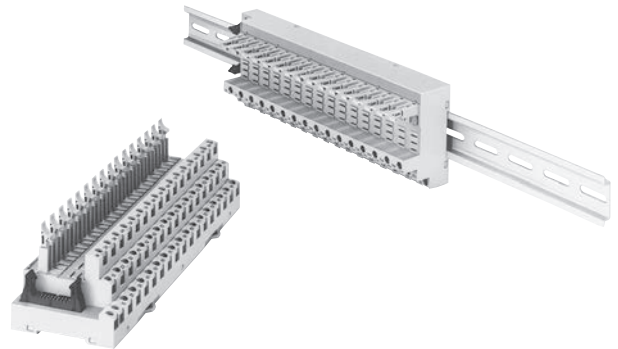


I/O Terminal Socket G70A

16-point I/O Terminal Socket accepts Various Devices such as G2R Relays, Solid State Relays, and Timers for More System Flexibility.



- Connects to a PLC with a simple snap-in connector.
- The G70A-ZOC16-3 can be combined with a DRT1-OD32ML I/O Terminal for DeviceNet connectivity.
- SPDT relays can be mounted.
- Conforms to VDE (VDE0106) and CE standards.
- Electric-shock preventive (finger-touch protection) terminal socket.
- DIN rail mountable.
- High-capacity (10 A) terminal socket.
- Excellent noise resistance characteristics.
- Built-in diodes for coil surge suppression.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

I/O Terminal Socket

| Classification | Internal I/O common | Rated voltage | Model |
|----------------|---------------------|---------------|---------------------|
| Output | NPN (+ common) | 24 VDC | G70A-ZOC16-3 |
| | PNP (- common) | 24 VDC | G70A-ZOC16-4 |

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

Suitable Relay/Solid State Relay/Solid-State Timer

| Classification | I/O Terminal Socket | Relay | Solid State Relay (SSR) | Solid-State Timer |
|----------------|----------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------|
| Output | NPN: G70A-ZOC16-3 PNP: G70A-ZOC16-4 | G2R-1-S G2R-1-SN G2R-1-S (S) G2R-1-SN (S) | G3R-OA202SZN-UTU G3R-OA202SLN-UTU G3R-ODX02SN-UTU G3R-OD201SN-UTU G3RZ-201SLN | H3RN-1 H3RN-11 |

Accessories (Order Separately)

Short Bar

| Applicable model | Model |
|------------------------------|----------|
| G70A-ZOC16-3 G70A-ZOC16-4 | G78-16-E |

Connecting Sockets for I/O Terminal Expansion




| Number of poles | Model |
|------------------------------|------------|
| 1 pole (G2R: 1 pole usage) | P2RFZ-05-E |
| 2 poles (G2R: 2 poles usage) | P2RFZ-08-E |

Cables for I/O Relay Terminals XW2Z-R

- Cable with Loose Wire and Crimp Terminals: XW2Z-RY□C
- Cable with Loose Wires: XW2Z-RA□C
- Cable with connectors
 - Fujitsu connectors (1:1): XW2Z-R□C
 - (1:2): XW2Z-RI□C-□
 - XW2Z-RO□C-□
 - (1:3): XW2Z-R□C-□-□
 - MIL connectors (1:1): XW2Z-RI□C
 - XW2Z-RO□C
 - (1:2): XW2Z-RI□-□-D□
 - XW2Z-RM□-□-D□
 - XW2Z-RO□-□-D1

Refer to "Connecting Cables" on page 12 for details.

Accessories for DIN Track Mounting

| Appearance | Name | Model |
|------------------------------------------------------------------------------------|------------|-------------------------|
|  | DIN Tracks | 1 m PFP-100N |
| | | 0.5 m PFP-50N |
|  | End Plate | PFP-M |
|  | Spacer | PFP-S |

Specifications

Ratings/Characteristics

| Item | G70A-ZOC16-3 | G70A-ZOC16-4 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Contact resistance | 10 mΩ (excluding the resistance of the relay to be used) | |
| Permissible current | 10 A | |
| Max. operating voltage | 380 VAC, 125 VDC | |
| Dielectric strength | 4,000 VAC, 50/60 Hz for 1 min between connector and output terminals 2,000 VAC, 50/60 Hz for 1 min between output terminals 250 VAC, 50/60 Hz for 1 min between connectors | |
| Insulation resistance | Between connector and I/O terminals: 1,000 MΩ (at 500 V) Other: 100 MΩ (at 500 V) | |
| Vibration resistance | Malfunction: 10 to 61.2 to 10 Hz, 0.1-mm single amplitude (0.2-mm double amplitude); 61.2 to 150 to 61.2 Hz, 14.7 m/s ² | |
| Shock resistance | Malfunction: 200 m/s ² | |
| Noise immunity | Noise level: 2.0 kV; pulse width: 100 ns to 1 μs | |
| Ambient temperature | Operating: 0 to 55°C (with no condensation or icing) | |
| Ambient humidity | Operating: 35% to 85% | |
| Coil surge absorption element | Diode: 1 A, 400 V | |
| Protection diode for inverse connection | Diode (2 A, withstand inverse voltage: 40 V) | |
| Tensile strength | No damage when a tensile force of 49 N is applied for 1 second in any direction | |
| I/O terminal tightening torque | Tightening strength: 0.59 N·m; Tensile strength 49 N for 1 min. | |
| Weight | Approx. 400 g | |

* Use a DC relay with a built-in diode because a DC relay without a built-in diode does not absorb any coil surge.

Approved Standards

The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

UL standard certification (File No. E95399)

| Model | Ratings | Standard number | Category | Listed/Recognized | Contact ratings |
|------------------------------|---------|-----------------|----------|-------------------|-----------------|
| G70A-ZOC16-3 G70A-ZOC16-4 | --- | UL508 | NRAQ2 | Recognized | 10 A 250 VAC |

CSA certified (File No. LR35535)

| Model | Ratings | Standard number | Class number | Contact ratings |
|------------------------------|---------|--------------------|--------------|-----------------------------|
| G70A-ZOC16-3 G70A-ZOC16-4 | --- | CSA C22.2 No.14 | 3211 04 | 10 A 250 VAC 10 A 30 VDC |

VDE Standards

| Model | Standard number | Certification No. |
|------------------------------|-----------------|-------------------|
| G70A-ZOC16-3 G70A-ZOC16-4 | VDE0160 | 124796 |

●Relay (G2R-1-S, G2R-1-SN, G2R-1-S (S), G2R-1-SN (S))

Coil Ratings

| | | |
|----------------------|---------------------------|------|
| Rated voltage | 24 VDC | |
| Rated current | 21.8 mA | |
| Coil resistance | 1,100 Ω | |
| Coil inductance | Armature OFF | 4.27 |
| (H) (ref. value) | Armature ON | 8.55 |
| Must operate voltage | 70% min. of rated voltage | |
| Must release voltage | 15% min. of rated voltage | |
| Max. voltage | 110% of rated voltage | |
| Power consumption | Approx. 0.53 W | |

Contact Ratings

| | | |
|-------------------------|-----------------------------------|-------------------------------------------------|
| Number of poles | 1 pole | |
| Load | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi = 0.4$; L/R = 7 ms) |
| Rated load | 10 A at 250 VAC; 10 A at 30 VDC | 7.5 A at 250 VAC; 5 A at 30 VDC |
| Rated carry current | 10 A | |
| Max. operating voltage | 380 VAC, 125 VDC | |
| Max. operating current | 10 A | |
| Max. switching capacity | 2,500 VA, 300 W | 1,875 VA, 150 W |
| Min. permissible load | 100 mA at 5 VDC | |

●Relay (G2R-1A3-SN (SND), G2R-13-SN (SND))

Coil Ratings

| | | | |
|----------------------|---------------------------|---------------------------|----------------|
| Rated voltage | 230 VAC | 12 VDC | 24 VDC |
| Rated current | 50 Hz | 3.7 mA | 43.6 mA |
| | 60 Hz | 3.1 mA | |
| Coil resistance | 30,000 Ω | 275 Ω | 1,100 Ω |
| Must operate voltage | 80% max. of rated voltage | 70% max. of rated voltage | |
| Must release voltage | 30% min. of rated voltage | 15% min. of rated voltage | |
| Max. voltage | 110% of rated voltage | | |
| Power consumption | Approx. 0.7 W (60 Hz) | Approx. 0.53 W | |

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of $+15\%/-20\%$ (AC rated current) or $\pm 10\%$ (DC coil resistance).

2. LEDs are used for the built-in operation indicator. For models equipped with these indications, the VAC rated current must be increased by approximately 1 mA; the VDC rated current, by approximately 4 mA.

3. Operating characteristics are measured at a coil temperature of 23°C.

● Solid State Relay (G3R-I/O)

Ratings

Input Module

Input

| Model | Rated voltage | Operating voltage | Input current | Must operate voltage | Must release voltage |
|---------------|----------------|-------------------|---------------|----------------------|----------------------|
| G3R-IAZR1SN | 100 to 240 VAC | 60 to 264 VAC | 15 mA max. | 60 VAC max. | 20 VAC min. |
| G3R-IDZR1SN | 5 VDC | 4 to 6 VDC | 8 mA max. | 4 VDC max. | 1 VDC min. |
| | 12 to 24 VDC | 6.6 to 32 VDC | | 6.6 VDC max. | 3.6 VDC min. |
| G3R-IDZR1SN-1 | 5 VDC | 4 to 6 VDC | | 4 VDC max. | 1 VDC min. |
| | 12 to 24 VDC | 6.6 to 32 VDC | | 6.6 VDC max. | 3.6 VDC min. |

Output

| Model | Load voltage | Load current |
|---------------|--------------|---------------|
| G3R-IAZR1SN | 4 to 32 VDC | 0.1 to 100 mA |
| G3R-IDZR1SN | | |
| G3R-IDZR1SN-1 | | |

Output Module

Input

| Model | Rated voltage | Operating voltage | Input current | Must operate voltage | Must release voltage |
|------------------|---------------|-------------------|-------------------------|----------------------|----------------------|
| G3R-OA202SZN-UTU | 5 to 24 VDC | 4 to 32 VDC | 15 mA max. (at 25°C) | 4 VDC max. | 1 VDC min. |
| G3R-OA202SLN-UTU | | | 8 mA max. | | |
| G3R-ODX02SN-UTU | | | | | |
| G3R-OD201SN-UTU | | | | | |

Output

| Model | Load voltage | Load current *1, *2 | Inrush current |
|------------------|---------------|---------------------|-----------------------|
| G3R-OA202SZN-UTU | 75 to 264 VAC | 0.05 to 2 A | 30 A (60 Hz, 1 cycle) |
| G3R-OA202SLN-UTU | | | |
| G3R-ODX02SN-UTU | 4 to 60 VDC | 0.01 to 2 A | 8 A (10 ms) |
| G3R-OD201SN-UTU | 40 to 200 VDC | 0.01 to 1.5 A | 8 A (10 ms) |

*1. Depends on the ambient temperature. Refer to the Engineering Data (Reference Value) *Load Current vs. Ambient Temperature Rating* on page 7 for details.

*2. The minimum current value is measured at 10°C min.

Characteristics

Input Module

| Item | G3R-IAZR1SN | G3R-IDZR1SN | G3R-IDZR1SN-1 |
|------------------------|---------------------------------------------------------------------------------|-------------|---------------|
| Operate time | 20 ms max. | 0.1 ms max. | 15 ms max. |
| Release time | 20 ms max. | 0.1 ms max. | 15 ms max. |
| Response frequency | 10 Hz | 1 kHz | 10 Hz |
| Output ON voltage drop | 1.6 V max. | | |
| Leakage current | 5 μA max. | | |
| Insulation resistance | 100 MΩ min. between input and output | | |
| Dielectric strength | 4,000 VAC, 50/60 Hz for 1 min between input and output | | |
| Vibration resistance | 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) | | |
| Shock resistance | 1,000 m/s ² | | |
| Ambient temperature | Operating: -30 to 80°C (with no icing) Storage: -30 to 100°C (with no icing) | | |
| Ambient humidity | Operating: 45% to 85% | | |
| Weight | Approx. 18 g | | |

G70A

Output Module

| Item | G3R-OA202SZN-UTU | G3R-OA202SLN-UTU | G3R-ODX02SN-UTU | G3R-OD201SN-UTU |
|------------------------|---------------------------------------------------------------------------------|------------------|-----------------|-----------------|
| Operate time | 1/2 of load power source cycle + 1 ms max. | 1 ms max. | | |
| Release time | 1/2 of load power source cycle + 1 ms max. | | 2 ms max. | |
| Response frequency | 20 Hz | | 100 Hz | |
| Output ON voltage drop | 1.6 V max. | | | 2.5 V max. |
| Leakage current | 1.5 mA max. | | 1 mA max. | |
| Insulation resistance | 100 M Ω min. between input and output | | | |
| Dielectric strength | 4,000 VAC, 50/60 Hz for 1 min between input and output | | | |
| Vibration resistance | 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) | | | |
| Shock resistance | 1,000 m/s ² | | | |
| Ambient temperature | Operating: -30 to 80°C (with no icing) Storage: -30 to 100°C (with no icing) | | | |
| Ambient humidity | Operating: 45% to 85% | | | |
| Weight | Approx. 18 g | | | |

● Solid State Relay (G3RZ)

Ratings

| Item | Input | | | | | Output | | | |
|-------------|---------------|-------------------|--------------------------|----------------------|----------------------|------------------------------|------------------------------|----------------------|-------------------------|
| | Rated voltage | Operating voltage | Impedance | Voltage level | | Rated load voltage | Load voltage range | Load current * | Surge withstand current |
| | | | | Must-operate voltage | Must-release voltage | | | | |
| G3RZ-201SLN | 5 VDC | 4 to 6 VDC | 400 Ω \pm 20% | 4 VDC max. | 1 VDC min. | 5 to 240 VAC 5 to 100 VDC | 3 to 264 VAC 3 to 125 VDC | 100 μ A to 1.0 A | 10 A (10 ms) |
| | 12 VDC | 9.6 to 14.4 VDC | 1.1 k Ω \pm 20% | 9.6 VDC max. | | | | | |
| | 24 VDC | 19.2 to 28.8 VDC | 2.2 k Ω \pm 20% | 19.2 VDC max. | | | | | |

* Depends on the ambient temperature. Refer to the reference data *Load Current vs. Ambient Temperature Rating* on page 7 for details.

Characteristics

| | |
|-------------------------------|-----------------------------------------------------------------------|
| Operation time | 6 ms max. |
| Release time | 10 ms max. |
| Output ON resistance | 2.4 Ω max. |
| OFF leakage current | 10 μ A max. (at 125 VDC) 100 μ A max. (at 200 VAC) |
| Insulation resistance | 100 M Ω min. (at 500 VDC) |
| Dielectric strength | 2,500 VAC at 50/60 Hz for 1 min. between inputs and outputs |
| Vibration resistance | 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) |
| Shock resistance | 1,000 m/s ² |
| Storage temperature | -30 to 100°C (with no icing or condensation) |
| Ambient operating temperature | -30 to 85°C (with no icing or condensation) |
| Ambient operating humidity | 45% to 85% |
| Weight | Approx. 20 g |

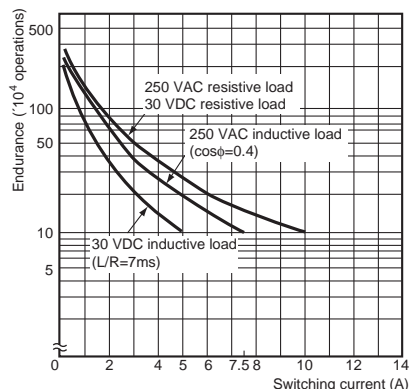
● Solid-State Timer (H3RN)

For H3RN specifications, refer to the H3RN Datasheet.

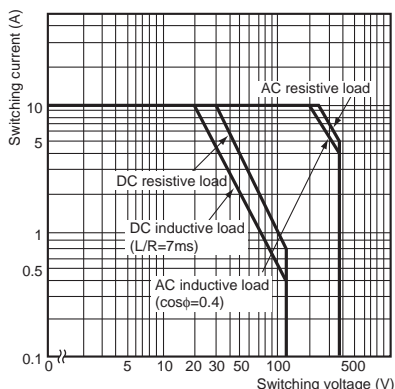
Engineering Data (Reference Value)

When Mounted to a G2R

Endurance



Maximum Switching Power G2R-1-S (24 VDC)

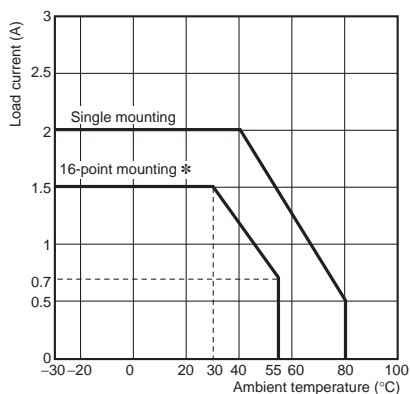


Note: The characteristics shown here are for 16-point mounting. This data was produced from actual values sampled on production lines, and should be used for reference purposes only. Since relays are mass-produced, a certain amount of tolerance is generally allowed in their application.

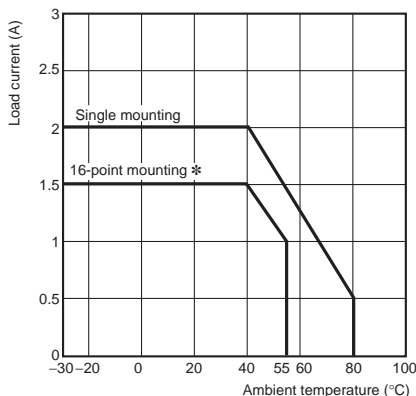
When Mounted to a G3R-I/O

Load Current vs. Ambient Temperature Rating

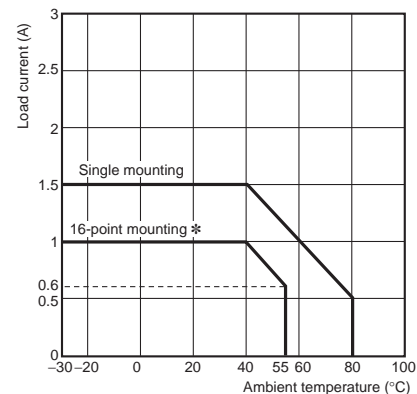
G3R-OA202SZN-UTU
G3R-OA202SLN-UTU



G3R-ODX02SN-UTU



G3R-OD201SN-UTU

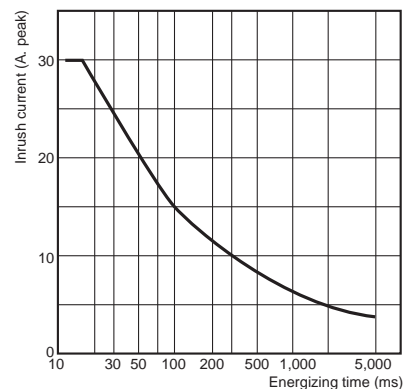


* On G70A-ZOC16, fully mounted.

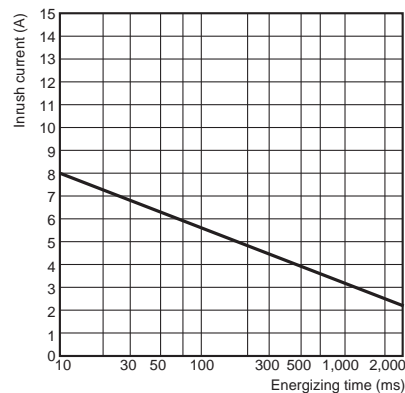
Inrush Current Resistivity

Non-repetitive (Keep the inrush current to half the rated value if it occurs repetitively.)

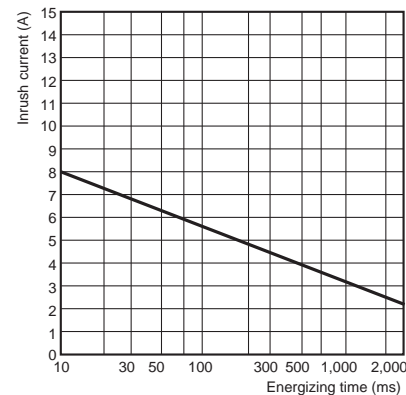
G3R-OA202SZN-UTU
G3R-OA202SLN-UTU



G3R-ODX02SN-UTU



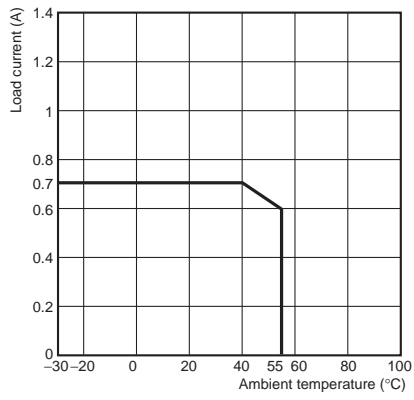
G3R-OD201SN-UTU



When Mounted to a G3RZ

Load Current vs. Ambient Temperature Rating

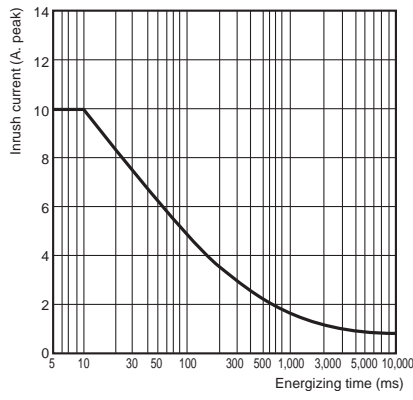
G3RZ-201SLN



Inrush Current Resistivity

Non-repetitive (Keep the inrush current to half the rated value if it occurs repetitively.)

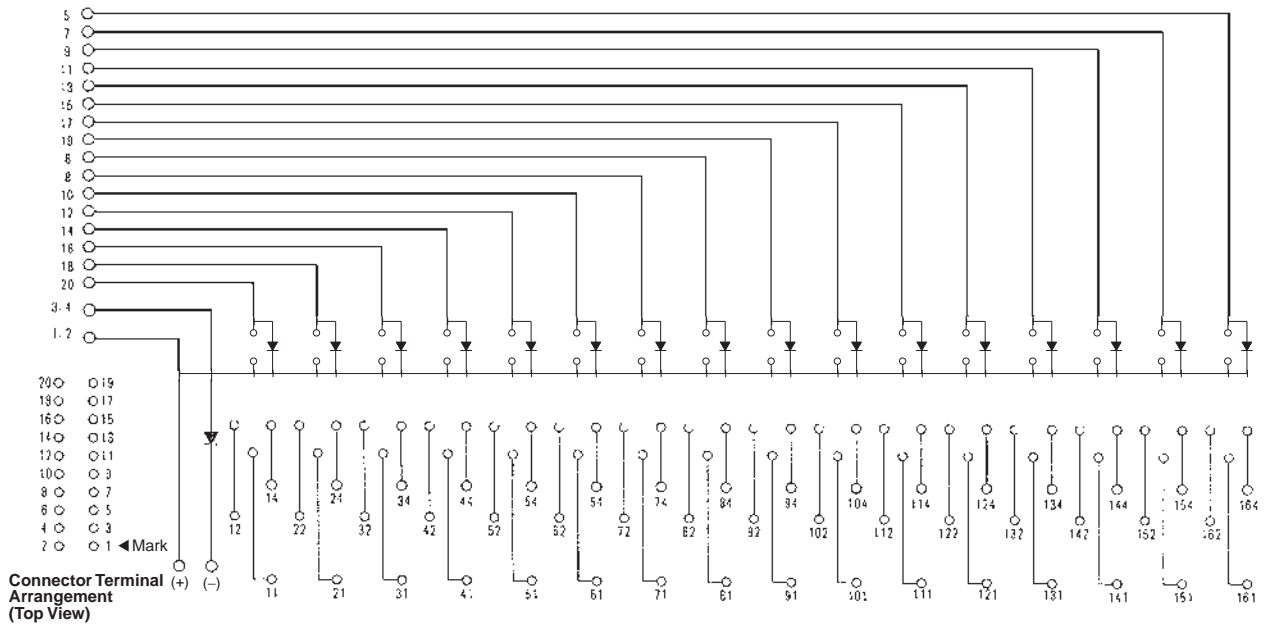
G3RZ-201SLN



Internal Circuits

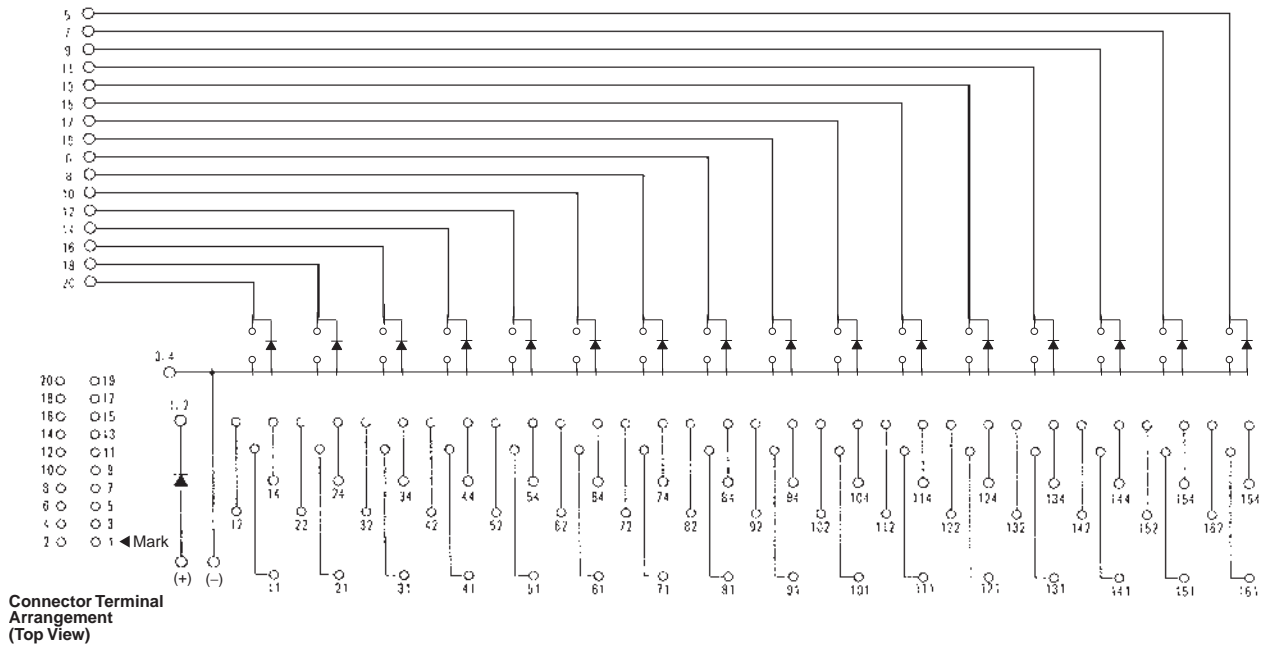
• G70A-ZOC16-3 (NPN)

NPN (positive common): The output at the connected controller will have a negative common from an NPN transistor.



G70A-ZOC16-4 (PNP)

PNP (negative common): The output at the connected controller will have a positive common from a PNP transistor.



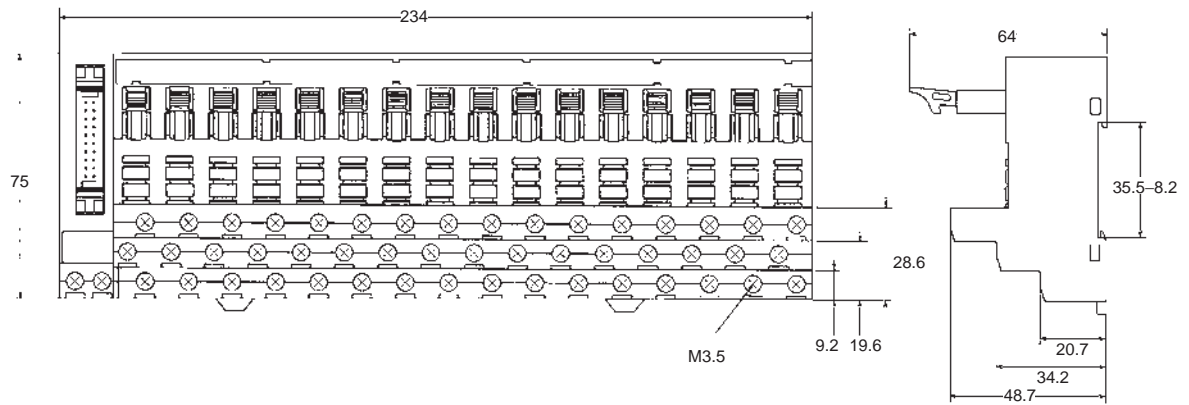
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

G70A

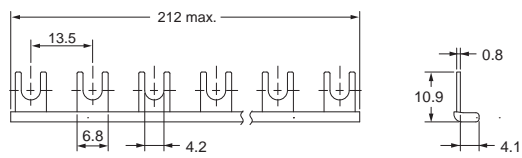
Dimensions

(Unit: mm)

G70A-ZOC16 (Output)

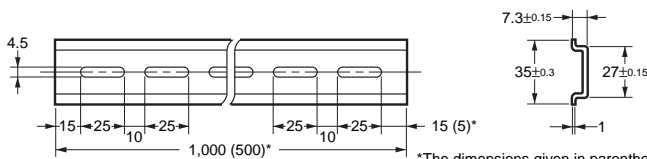
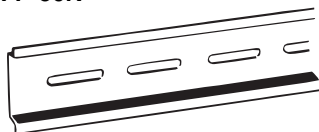


Short Bar G78-16-E



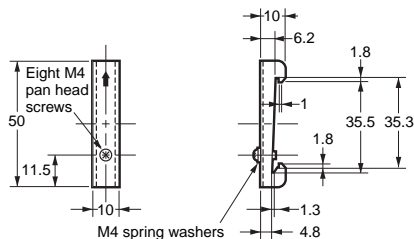
Parts for Rail Mounting

DIN Track
PFP-100N
PFP-50N

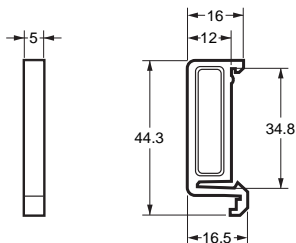
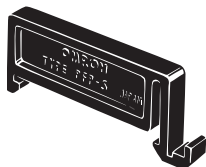


*The dimensions given in parentheses () are for the PFP-50N.

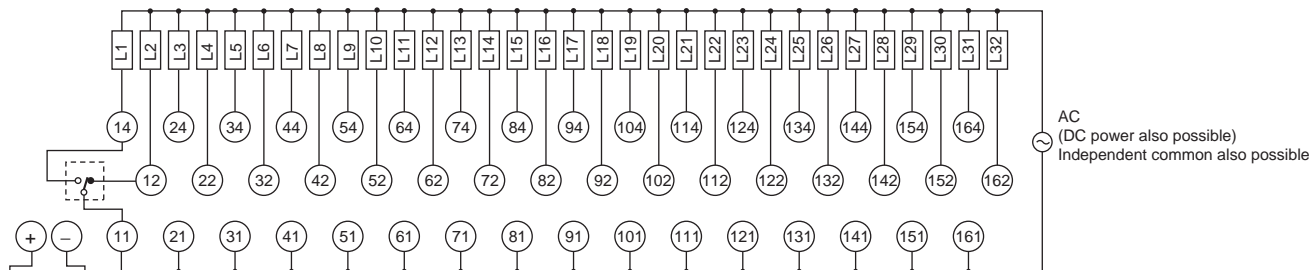
End Plate
PFP-M



Spacer
PFP-S



Terminal Arrangement/Internal Connection



24 VDC
(Power supply)

Note: The above diagram shows the Unit mounted to a G2R-1-S.

When mounting to a G3R-OA□-UTU or G3RZ-201SLN, pins 11 to 14 are output terminals.

When mounting to a G3R-OD□-UTU, pin 14 is a plus terminal and pin 11 is a minus terminal. When mounting to G3RZ-201SLN, there is no polarity.

Safety Precautions

Be sure to read *the Safety Precautions for All I/O Relay Terminals* in the website: <http://www.ia.omron.com/>.

G70A

Connecting Cables

Refer to the datasheet for the **XW2Z-R** Cables for I/O Relay Terminals (Cat. No. G126).

| Type | Name | I/O Classification | Appearance | Cable length L (mm) | | | Models | | |
|------------------------------|------------------------------------------------------------|--------------------|------------|---------------------|-----------|----------------|--------------------|--------------------|--|
| Various devices | Cables with Loose Wires and Crimp Terminals XW2Z-RY□C | 16 I/O points | | 1,000 | | | XW2Z-RY100C | | |
| | | | | 1,500 | | | XW2Z-RY150C | | |
| | | | | 2,000 | | | XW2Z-RY200C | | |
| | | | | 3,000 | | | XW2Z-RY300C | | |
| | | | | 5,000 | | | XW2Z-RY500C | | |
| Various devices | Cables with Loose Wires XW2Z-RA□C | 16 I/O points | | 2,000 | | | XW2Z-RA200C | | |
| | | | | 5,000 | | | XW2Z-RA500C | | |
| 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 | | | |
| | | | | (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 | | |
| | | 32 output points | | (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 | | |
| Fujitsu connectors (56 pins) | Cables with Connectors (1:3) XW2Z-R□C-□-□ | 48 I/O points | | (A) 1,500 | (B) 1,250 | (C) 1,000 | XW2Z-R150C-125-100 | | |
| | | | | (A) 2,000 | (B) 1,750 | (C) 1,500 | | XW2Z-R200C-175-150 | |
| | | | | (A) 3,000 | (B) 2,750 | (C) 2,500 | XW2Z-R300C-275-250 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 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 | | |

| Type | Name | I/O Classification | Appearance | Cable length L (mm) | | Models | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------|--------------------|--------------------|-------|--|------------------|
| MIL connectors (40 pins) | Cables with Connectors (1:2) XW2Z-RO□-□-D1, XW2Z-RI□-□-D1, XW2Z-RI□-□-D2, XW2Z-RM□-□-D1 *1, XW2Z-RM□-□-D2 *1 | 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 | | | | | |
| | | (A) 500 | (B) 250 | XW2Z-RI50-25-D2 | | | | | |
| | | (A) 750 | (B) 500 | XW2Z-RI75-50-D2 | | | | | |
| | | (A) 500 | (B) 250 | XW2Z-RM50-25-D1 | | | | | |
| | | (A) 750 | (B) 500 | XW2Z-RM75-50-D1 | | | | | |
| (A) 500 | (B) 250 | XW2Z-RM50-25-D2 | | | | | | | |
| (A) 750 | (B) 500 | XW2Z-RM75-50-D2 | | | | | | | |
| Mitsubishi Electric PLCs with 32-point connectors (1:2) *2 | Mitsubishi Electric PLC Connecting Cables XW2Z-RI□C-□-MN XW2Z-RO□C-□-MN | 32 input points | | (A) 1,000 | (B) 750 | XW2Z-R1100C-75-MN | | | |
| | | | | (A) 1,500 | (B) 1,250 | XW2Z-R1150C-125-MN | | | |
| | | | | (A) 2,000 | (B) 1,750 | XW2Z-R1200C-175-MN | | | |
| | | 32 output points | | (A) 3,000 | (B) 2,750 | XW2Z-R1300C-275-MN | | | |
| | | | | (A) 1,000 | (B) 750 | XW2Z-RO100C-75-MN | | | |
| | | | | (A) 1,500 | (B) 1,250 | XW2Z-RO150C-125-MN | | | |
| | | (A) 2,000 | | (B) 1,750 | XW2Z-RO200C-175-MN | | | | |
| | | (A) 3,000 | | (B) 2,750 | XW2Z-RO300C-275-MN | | | | |
| | | Schneider Electric PLCs with 32-point connectors (1:2) Applicable models: For inputs: 140 DDI 353 00 For outputs: 140 DDO 353 00 | | Schneider Electric PLC Connecting Cables XW2Z-R□C-SCH-□ | 32 input points | | 500 | | XW2Z-R050C-SCH-A |
| 1,000 | | | XW2Z-R100C-SCH-A | | | | | | |
| 2,000 | | | XW2Z-R200C-SCH-A | | | | | | |
| 3,000 | | | XW2Z-R300C-SCH-A | | | | | | |
| 5,000 | | | XW2Z-R500C-SCH-A | | | | | | |
| 32 output points | 500 | | | | XW2Z-R050C-SCH-B | | | | |
| | 1,000 | | | | XW2Z-R100C-SCH-B | | | | |
| | 2,000 | | | | XW2Z-R200C-SCH-B | | | | |
| | 3,000 | | | | XW2Z-R300C-SCH-B | | | | |
| | 5,000 | | | | XW2Z-R500C-SCH-B | | | | |
| Schneider Electric PLCs with 16-point connectors (1:1) Applicable models: For inputs: BMX DDI 1602 For outputs: BMX DDO 1602 | XW2Z-R□C-SCH-□ | | 16 input points | | | | 500 | | XW2Z-R050C-SCH-C |
| | | | | | | | 1,000 | | XW2Z-R100C-SCH-C |
| | | | | | | | 2,000 | | XW2Z-R200C-SCH-C |
| | | | | | | | 3,000 | | XW2Z-R300C-SCH-C |
| | | | | | | | 5,000 | | XW2Z-R500C-SCH-C |
| | | 16 output points | 500 | | | XW2Z-R050C-SCH-D | | | |
| | | | 1,000 | | | XW2Z-R100C-SCH-D | | | |
| | | | 2,000 | | | XW2Z-R200C-SCH-D | | | |
| | | | 3,000 | | | XW2Z-R300C-SCH-D | | | |
| | | | 5,000 | | | XW2Z-R500C-SCH-D | | | |

Note: Contact for a cable length other than the above.

*1. These cables are used to connect to slave products for DeviceNet and other networks.

*2. For details on models that can be used, refer to *List of Combinations with the Mitsubishi PLC MELSEC-L Series, MELSEC-Q Series, and MELSEC iQ-R Series* on page 19.

| Type | Name | I/O Classification | Appearance | Cable length L (mm) | Models |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------|------------|---------------------|------------------|
| Siemens PLCs with 32-point connectors (1:2) Applicable models: For inputs: 6ES7 321-1BL00-0AA0 For outputs: 6ES7 322-1BL00-0AA0 | Siemens PLC Connecting Cables XW2Z-R□C-SIM-□ | 32 input points | | 500 | XW2Z-R050C-SIM-A |
| | | | | 1,000 | XW2Z-R100C-SIM-A |
| | | | | 2,000 | XW2Z-R200C-SIM-A |
| | | | | 3,000 | XW2Z-R300C-SIM-A |
| | | | | 5,000 | XW2Z-R500C-SIM-A |
| | | 32 output points | | 500 | XW2Z-R050C-SIM-B |
| | | | | 1,000 | XW2Z-R100C-SIM-B |
| | | | | 2,000 | XW2Z-R200C-SIM-B |
| | | | | 3,000 | XW2Z-R300C-SIM-B |
| | | | | 5,000 | XW2Z-R500C-SIM-B |
| Siemens PLCs with 16-point connectors (1:1) Applicable models: For inputs: 6ES7 321-1BH02-0AA0 | Siemens PLC Connecting Cables XW2Z-R□C-SIM-□ | 16 input points | | 500 | XW2Z-R050C-SIM-C |
| | | | | 1,000 | XW2Z-R100C-SIM-C |
| | | | | 2,000 | XW2Z-R200C-SIM-C |
| | | | | 3,000 | XW2Z-R300C-SIM-C |
| | | | | 5,000 | XW2Z-R500C-SIM-C |
| Siemens PLCs with 32-point connectors (1:2) Applicable models: For inputs: 6ES7 421-1BL-0AA0 For outputs: 6ES7 422-1BL-0AA0 | Siemens PLC Connecting Cables XW2Z-R□C-SIM-□ | 32 input points | | 500 | XW2Z-R050C-SIM-D |
| | | | | 1,000 | XW2Z-R100C-SIM-D |
| | | | | 2,000 | XW2Z-R200C-SIM-D |
| | | | | 3,000 | XW2Z-R300C-SIM-D |
| | | | | 5,000 | XW2Z-R500C-SIM-D |
| | | 32 output points | | 500 | XW2Z-R050C-SIM-E |
| | | | | 1,000 | XW2Z-R100C-SIM-E |
| | | | | 2,000 | XW2Z-R200C-SIM-E |
| | | | | 3,000 | XW2Z-R300C-SIM-E |
| | | | | 5,000 | XW2Z-R500C-SIM-E |

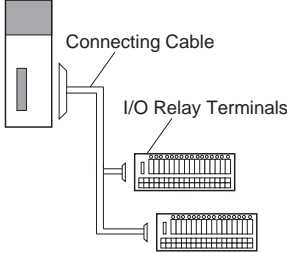
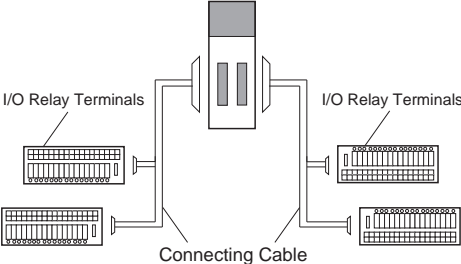
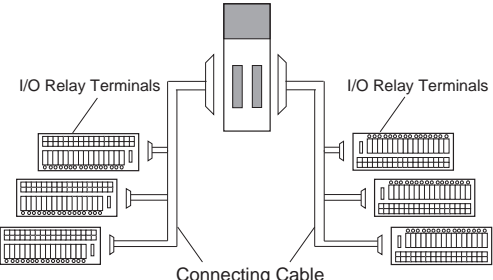
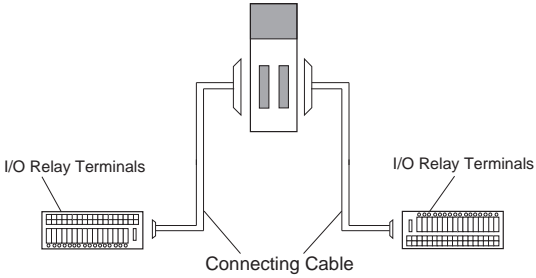
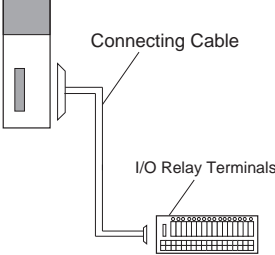
Note: 1. Refer to Combinations of Connections starting on the next page.
2. For connector pin diagrams and cable colors, refer to the wiring diagrams starting on page 4 of *XW2Z-R Cables for I/O Relay Terminals* (Cat. No. G126).

Combinations of Connections

Refer to the next page for details on the combinations of cables and connection devices [OMRON PLC I/O Units NX Series, CJ Series, CS Series], [Mitsubishi PLC I/O Units MELSEC-L Series, MELSEC-Q Series, MELSEC iQ-R Series].

For combinations with other products, refer to *I/O Relay Terminals and Connected Devices* (Cat. No. J217) or to the datasheets for related products.

Connection Patterns

| Pattern | Configuration |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A |  <p>Connecting Cable</p> <p>I/O Relay Terminals</p> |
| B |  <p>I/O Relay Terminals</p> <p>I/O Relay Terminals</p> <p>Connecting Cable</p> |
| D |  <p>I/O Relay Terminals</p> <p>I/O Relay Terminals</p> <p>Connecting Cable</p> |
| E |  <p>I/O Relay Terminals</p> <p>I/O Relay Terminals</p> <p>Connecting Cable</p> |
| F |  <p>Connecting Cable</p> <p>I/O Relay Terminals</p> |

List of Combinations with the OMRON PLC NX Series

| NX I/O Units | | | | Conne ction pattern | XW2Z-R Cables | | | G70A-ZOC16 Relay Terminal Socket | | |
|--------------------------------|-------------|-------------------------------------------------------------------|------------------------------------------|---------------------------|----------------|---------------|---------------------------------------------------------------|------------------------------------------|--------------|----------------------|
| I/O capacity | Model | External connectors *2 | Polarity | | Specifications | Model *2 | Quantity required | Specifications | Model | Quantity required |
| Input Units | | | | | | | | | | |
| 16 inputs | NX-ID5142-5 | 1 MIL connector | NPN or PNP | F | 1:1 | XW2Z-RO□C | 1 | Inputs *3 | --- | |
| 32 inputs | NX-ID6142-5 | 1 MIL connector | NPN or PNP | A | 1:2 | XW2Z-RO□-□-D1 | 1 | | --- | |
| | NX-ID6142-6 | 1 Fujitsu connector | NPN or PNP | | | XW2Z-RI□C-□ | 1 | | --- | |
| Output Units | | | | | | | | | | |
| 16 outputs | NX-OD5121-5 | 1 MIL connector | NPN | F | 1:1 | XW2Z-RO□C | 1 | NPN outputs | G70A-ZOC16-3 | 1 |
| | NX-OD5256-5 | 1 MIL connector | PNP | | | XW2Z-RO□C | 1 | PNP outputs | G70A-ZOC16-4 | 1 |
| 32 outputs | NX-OD6121-5 | 1 MIL connector | NPN | A | 1:2 | XW2Z-RO□-□-D1 | 1 | NPN outputs | G70A-ZOC16-3 | 2 |
| | NX-OD6256-5 | 1 MIL connector | PNP | | | XW2Z-RO□-□-D1 | 1 | PNP outputs | G70A-ZOC16-4 | 2 |
| 32 outputs | NX-OD6121-6 | 1 Fujitsu connector | NPN | | | XW2Z-RO□C-□ | 1 | NPN outputs | G70A-ZOC16-3 | 2 |
| Mixed I/O Units | | | | | | | | | | |
| 16 inputs and 16 outputs | NX-MD6121-6 | 2 Fujitsu connectors (1 for 16 inputs and 1 for 16 outputs) | Outputs: NPN Inputs: NPN or PNP | E | 1:1 | XW2Z-R□C | 2 | Inputs *3 | --- | |
| | | | | | | | | NPN outputs | G70A-ZOC16-3 | 1 |
| | NX-MD6121-5 | 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) | Outputs: NPN Inputs: NPN or PNP | | | XW2Z-RO□C | 1 | Inputs *3 | --- | |
| | | | | | | XW2Z-RO□C | 1 | NPN outputs | G70A-ZOC16-3 | 1 |
| | | | | | | NX-MD6256-5 | 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) | Outputs: PNP Inputs: NPN or PNP | XW2Z-RO□C | 1 |
| XW2Z-RI□C | 1 | PNP outputs | G70A-ZOC16-4 | 1 | | | | | | |

*1. For details on the types of connectors, refer to pages 12 and 13.

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

*3. Either NPN inputs or PNP inputs can be used.

List of Combinations with the OMRON PLC CJ Series

| CJ1W I/O Units | | | | Conne ction pattern | XW2Z-R Cables | | | G70A-ZOC16 Relay Terminal Socket | | |
|-----------------------------------------|------------|-------------------------------------------------------------------|-------------------|---------------------------|----------------|---------------|----------------------|-------------------------------------|--------------|----------------------|
| I/O capacity | Model | External connectors *1 | Polarity | | Specifications | Model *2 | Quantity required | Specifications | Model | Quantity required |
| DC Input Units | | | | | | | | | | |
| 32 inputs | CJ1W-ID231 | 1 Fujitsu connector | NPN | A | 1:2 | XW2Z-RI□C-□ | 1 | Inputs *3 | --- | |
| | CJ1W-ID232 | 1 MIL connector | NPN | | | XW2Z-RO□-□-D1 | 1 | | --- | |
| | CJ1W-ID233 | 1 MIL connector | NPN | | | XW2Z-RO□-□-D1 | 1 | | --- | |
| 64 inputs | CJ1W-ID261 | 2 Fujitsu connectors (2, 32-point connectors) | NPN | B | | XW2Z-RI□C-□ | 2 | | --- | |
| | CJ1W-ID262 | 2 MIL connectors (2, 32-point connectors) | NPN | | | XW2Z-RO□-□-D1 | 2 | | --- | |
| | | | | | | | | | | |
| Transistor Output Units | | | | | | | | | | |
| 32 outputs | CJ1W-OD231 | 1 Fujitsu connector | Sinking (NPN) | A | 1:2 | XW2Z-RO□C-□ | 1 | NPN outputs | G70A-ZOC16-3 | 2 |
| | CJ1W-OD233 | 1 MIL connector | Sinking (NPN) | | | XW2Z-RO□-□-D1 | 1 | | G70A-ZOC16-3 | |
| | CJ1W-OD232 | 1 MIL connector | Sourcing (PNP) | | | XW2Z-RO□-□-D1 | 1 | PNP outputs | G70A-ZOC16-4 | 2 |
| | CJ1W-OD234 | 1 MIL connector | Sinking (NPN) | | | XW2Z-RO□-□-D1 | 1 | NPN outputs | G70A-ZOC16-3 | 2 |
| 64 outputs | CJ1W-OD261 | 2 Fujitsu connectors (2, 32-point connectors) | Sinking (NPN) | B | | XW2Z-RO□C-□ | 2 | NPN outputs | G70A-ZOC16-3 | 2 |
| | CJ1W-OD262 | 2 MIL connectors (2, 32-point connectors) | Sourcing (PNP) | | | XW2Z-RO□-□-D1 | 2 | PNP outputs | G70A-ZOC16-4 | 2 |
| | CJ1W-OD263 | 2 MIL connectors (2, 32-point connectors) | Sinking (NPN) | | XW2Z-RO□-□-D1 | 2 | NPN outputs | G70A-ZOC16-3 | 2 | |
| DC Input/Transistor Output Units | | | | | | | | | | |
| 16 inputs and 16 outputs | CJ1W-MD231 | 2 Fujitsu connectors (1 for 16 inputs and 1 for 16 outputs) | Sinking (NPN) | E | 1:1 | XW2Z-R□C | 2 | Inputs *3 | --- | |
| | CJ1W-MD233 | 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) | Sinking (NPN) | | | XW2Z-RO□C | | 1 | Inputs *3 | --- |
| | | | | | | XW2Z-RO□C | 1 | NPN outputs | G70A-ZOC16-3 | 1 |
| | | | | | | XW2Z-RI□C | 1 | PNP outputs | G70A-ZOC16-4 | 1 |
| | CJ1W-MD232 | 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) | Sourcing (PNP) | | | XW2Z-RI□C | 1 | PNP outputs | G70A-ZOC16-4 | 1 |
| 32 inputs and 32 outputs | CJ1W-MD261 | 2 Fujitsu connectors (1 for 32 inputs and 1 for 32 outputs) | Sinking (NPN) | B | 1:2 | XW2Z-RI□C-□ | 1 | Inputs *3 | --- | |
| | CJ1W-MD263 | 2 MIL connectors (1 for 32 inputs and 1 for 32 outputs) | Sinking (NPN) | | | XW2Z-RO□C-□ | 1 | NPN outputs | G70A-ZOC16-3 | 1 |
| | | | | | | XW2Z-RO□-□-D1 | 1 | Inputs *3 | --- | |
| | | | | | XW2Z-RO□-□-D1 | 1 | NPN outputs | G70A-ZOC16-4 | 2 | |

*1. For details on the types of connectors, refer to pages 12 and 13.

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

*3. Either NPN inputs or PNP inputs can be used.

List of Combinations with the OMRON PLC CS Series

| CJ1W I/O Units | | | | Conne ction pattern | XW2Z-R Cables | | | G70A-ZOC16 Relay Terminal Socket | | |
|-----------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------|---------------------------|----------------|-------------------|----------------------|-------------------------------------|--------------|----------------------|
| I/O capacity | Model | External connectors | Polarity | | Specifications | Model *1 | Quantity required | Specifications | Model | Quantity required |
| DC Input Units | | | | | | | | | | |
| 32 inputs | CS1W-ID231 | 1 Fujitsu connector | NPN | A | 1:2 | XW2Z-RI□C-□ | 1 | Inputs *2 | --- | |
| 64 inputs | CS1W-ID261 | 2 Fujitsu connectors (2, 32-point connectors) | NPN | B | | XW2Z-RI□C-□ | 2 | | --- | |
| 96 inputs | CS1W-ID291 | 2 Fujitsu connectors (2, 48-point connectors) | NPN | D | 1:3 | XW2Z-R□C-□-□ | 2 | | --- | |
| Transistor Output Units | | | | | | | | | | |
| 32 outputs | CS1W-OD231 | 1 Fujitsu connector | Sinking (NPN) | A | 1:2 | XW2Z-RO□C-□ | 1 | NPN outputs | G70A-ZOC16-3 | 2 |
| | CS1W-OD232 | 1 Fujitsu connector | Sourcing (PNP) | | | XW2Z-RO□C-□ | 1 | PNP outputs | G70A-ZOC16-4 | 2 |
| 64 outputs | CS1W-OD261 | 2 Fujitsu connectors (2, 32-point connectors) | Sinking (NPN) | B | | XW2Z-RO□C-□ | 2 | NPN outputs | G70A-ZOC16-3 | 4 |
| | CS1W-OD262 | 2 Fujitsu connectors (2, 32-point connectors) | Sourcing (PNP) | | | XW2Z-RO□C-□ | 2 | PNP outputs | G70A-ZOC16-4 | 4 |
| 96 outputs | CS1W-OD291 | 2 Fujitsu connectors (2, 48-point connectors) | Sinking (NPN) | D | 1:3 | XW2Z-R□C-□-□ | 2 | NPN outputs | G70A-ZOC16-3 | 6 |
| DC Input/Transistor Output Units | | | | | | | | | | |
| 32 inputs and 32 outputs | CS1W- MD261 | 2 Fujitsu connectors (1 for 32 inputs and 1 for 32 outputs) | Sinking (NPN) | B | 1:2 | XW2Z-RI□C-□ | 1 | Inputs *2 | --- | |
| | | | Sourcing (PNP) | | | XW2Z-RO□C-□ | 1 | NPN outputs | G70A-ZOC16-3 | 1 |
| | CS1W- MD262 | 2 Fujitsu connectors (1 for 32 inputs and 1 for 32 outputs) | | | | Sourcing (PNP) | XW2Z-RI□C-□ | 1 | Inputs *2 | --- |
| XW2Z-RO□C-□ | | | 1 | PNP outputs | | | G70A-ZOC16-4 | 2 | | |
| 48 inputs and 48 outputs | CS1W- MD291 | 2 Fujitsu connectors (1 for 48 inputs and 1 for 48 outputs) | Sinking (NPN) | D | 1:3 | XW2Z-R□C-□-□ | 2 | Inputs *2 | --- | |
| | | | Sourcing (PNP) | | | | | NPN outputs | G70A-ZOC16-3 | 3 |
| CS1W- MD292 | 2 Fujitsu connectors (1 for 48 inputs and 1 for 48 outputs) | Sourcing (PNP) | | | | XW2Z-R□C-□-□ | 1 | Inputs *2 | --- | |
| | | | --- | | | | | | | |

*1. The box □ is replaced by the cable length.
 *2. Either NPN inputs or PNP inputs can be used.

Refer to the manuals for the connected PLC for the connections to I/O Units for OMRON PLCs.

| Series | Model | Man. No. | Manual Name |
|--------|-------------------------------------------------------------------|----------|-----------------------------------------------------|
| CS1 | CS1G-CPU□□H, CS1H-CPU□□H | W339 | Programmable Controllers Operation Manual |
| CJ1 | CJ1H-CPU□□H-R, CJ1G/H-CPU□□H, CJ1G-CPU□□P, CJ1M-CPU□□, CJ1G-CPU□□ | W393 | CJ Series Programmable Controllers Operation Manual |
| CJ2 | CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□ | W472 | CJ-series CJ2 CPU Unit Hardware User's Manual |
| NJ | NJ501-□□□□ | W500 | NJ-series CPU Unit Hardware User's Manual |
| NX | NX-ID□□□□, NX-IA□□□□, NX-OD□□□□, NX-OC□□□□, NX-MD□□□□ | W521 | NX-series Digital I/O Units User's Manual |

List of Combinations with the Mitsubishi PLC MELSEC-L Series, MELSEC-Q Series, and MELSEC iQ-R Series

| PLC I/O Unit | | | | Connection pattern | XW2Z-R Cables | | | G70A-ZOC16 Relay Terminal Socket | | |
|--------------------------|--------------------------|----------------------|------------|--------------------|----------------|-----------------|-------------------|----------------------------------|--------------|-------------------|
| I/O capacity | Model | External connectors | Polarity | | Specifications | Model * | Quantity required | Specifications | Model | Quantity required |
| Input Units | | | | | | | | | | |
| 32 inputs | LX41C4 | 1 Fujitsu connector | NPN or PNP | A | 1:2 | XW2Z-RI□□□-□□MN | 1 | --- | | |
| | QX41/QX41-S1/QX41-S2 | | | | | | | | | |
| | QX71 | | | | | | | | | |
| | RX41C4 | | | | | | | | | |
| 64 inputs | LX42C4 | 2 Fujitsu connectors | NPN or PNP | B | 1:2 | XW2Z-RI□□□-□□MN | 2 | --- | | |
| | QX42/QX42-S1 | | | | | | | | | |
| | QX82/QX82-S1 | | | | | | | | | |
| | RX42C4 | | | | | | | | | |
| Output Units | | | | | | | | | | |
| 32 outputs | LY41NT1P | 1 Fujitsu connector | NPN | A | 1:2 | XW2Z-RO□□□-□□MN | 1 | NPN outputs | G70A-ZOC16-3 | 2 |
| | QY41P | | | | | | | | | |
| | QY71 | | | | | | | | | |
| | RY41NT2P | 1 Fujitsu connector | PNP | | | XW2Z-RO□□□-□□MN | 1 | PNP outputs | G70A-ZOC16-4 | 2 |
| | LY41PT1P | | | | | | | | | |
| | RY41PT1P | | | | | | | | | |
| RY41PT2H | | | | | | | | | | |
| 64 outputs | LY42NT1P | 2 Fujitsu connectors | NPN | B | 1:2 | XW2Z-RO□□□-□□MN | 2 | NPN outputs | G70A-ZOC16-3 | 4 |
| | RY42NT2P | | | | | | | | | |
| | QY42P | | | | | | | | | |
| | LY42PT1P | 2 Fujitsu connectors | PNP | | | XW2Z-RO□□□-□□MN | 2 | PNP outputs | G70A-ZOC16-4 | 4 |
| | RY42PT1P | | | | | | | | | |
| | QY82P | | | | | | | | | |
| Mixed I/O Units | | | | | | | | | | |
| 32 inputs and 32 outputs | RH42C4NT2P (Input side) | 2 Fujitsu connectors | NPN or PNP | B | 1:2 | XW2Z-RI□□□-□□MN | 1 | --- | | |
| | RH42C4NT2P (Output side) | | NPN | | | | | | | |
| | QH42P (Input side) | 2 Fujitsu connectors | NPN or PNP | | | XW2Z-RI□□□-□□MN | 1 | --- | | |
| | QH42P (Output side) | | NPN | | | | | | | |
| | QX41Y41P (Input side) | 2 Fujitsu connectors | NPN or PNP | | | XW2Z-RI□□□-□□MN | 1 | --- | | |
| | QX41Y41P (Output side) | | NPN | | | | | | | |
| | LH42C4NT1P (Input side) | 2 Fujitsu connectors | NPN or PNP | | | XW2Z-RI□□□-□□MN | 1 | --- | | |
| | LH42C4NT1P (Output side) | | NPN | | | | | | | |
| | LH42C4PT1P (Input side) | 2 Fujitsu connectors | NPN or PNP | | | XW2Z-RI□□□-□□MN | 1 | --- | | |
| | LH42C4PT1P (Output side) | | PNP | | | | | | | |

Note: Cables that can be connected to the QX81, QX81-S2, and QY81P have not been prepared.

* The box □ is replaced by the cable length. For details on the types, refer to page 13.

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CSM_1_5

Cat. No. J087-E1-08 0423 (1092)