

# I/O Relay Terminal G70V



## I/O Relay Terminals with 16 Points and Push-In Plus terminal blocks to Downsize Control Panels and Save Labor

- I/O Relay Terminals with 16 points to mount G2RV Slim I/O Relays.
- Push-In Plus terminal blocks are used to save wiring work in comparison with traditional screw terminals. (Wiring time is reduced by 60% \*1 in comparison with traditional screw terminals.)
- Work is reduced ever further with one-step cable connection to the PLC.
- Diode provided for coil surge absorption.
- Operation indicators for immediate recognition of I/O signal status.
- Accepts G3RV Slim I/O SSRs. \*2
- Greatly reduce wiring work and maximize space efficiency with new models that provide internal connections between I/O terminals. (input models: 16 point/common, output models: 4 points/common)
- DIN Track or screw mounting.



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

\*1. According to OMRON actual measurement data from November 2015.

\*2. Mounting of some models is not possible.

Refer to Safety Precautions on page 22.

## Model Number Legend

**G70V** - ☐ ☐ ☐ **16 P** - ☐ - ☐  
(1) (2) (3) (4) (5) (6) (7)

### (1) Mountable Relays

S: Relays

Z: Sockets

### (2) Input/Output Classification

I: For input

O: For output

### (3) I/O Specification

C: Contacts

(Applicable when (2) is O (for output) (relay output).)

D: DC (Applicable when (2) is I (for input) (coil for input).)

M: AC/DC (Applicable when (1) is Z (Sockets).)

### (4) Number of I/O Points

16: 16 points

### (5) Terminal Type

P: Push-In Plus terminal blocks

### (6) Common Line on Connector Side

Blank: NPN

1: PNP

### (7) Common Line on Terminal Block Side

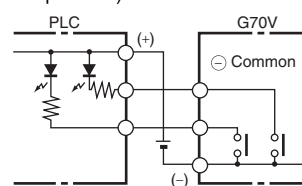
Blank: No internal connections

C4: Every 4 points internally connected at terminal block bottom row

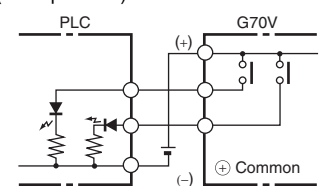
C4-D: Every 4 points internally connected at terminal block middle row

C16: 16 points internally connected

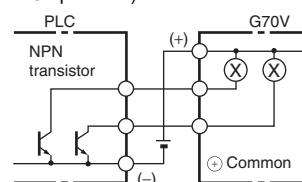
(For Input NPN)



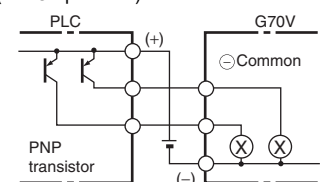
(For Input PNP)



(For Output NPN)



(For Output PNP)



# G70V

## Ordering Information

### I/O Relay Terminals

Terminals	Classification	Points	Common Line		Rated voltage	Model
			Terminal Block Side	Connector Side		
Push-In Plus terminal blocks	Input *1	16	No internal connections	NPN (– common)	24 VDC	G70V-SID16P
				PNP (+ common)		G70V-SID16P-1
			16 points internally connected	NPN (– common)		G70V-SID16P-C16
				PNP (+ common)		G70V-SID16P-1-C16
	Output *2		No internal connections	NPN (+ common)		G70V-SOC16P
				PNP (– common)		G70V-SOC16P-1
			Every 4 points internally connected at terminal block bottom row	NPN (+ common)		G70V-SOC16P-C4
				PNP (– common)		G70V-SOC16P-1-C4

\*1. Mountable Relays: G2RV-1-S-AP-G DC21V.

\*2. Mountable Relays: G2RV-1-S-G DC21V.

### I/O Terminal Sockets

Applicable I/O Relay Terminal	Classification	Common Line		Model
		Terminal Block Side	Connector Side	
G70V-SID16P	Input	No internal connections	NPN (– common)	G70V-ZID16P
G70V-SID16P-1			PNP (+ common)	G70V-ZID16P-1
G70V-SID16P-C16		16 points internally connected	NPN (– common)	G70V-ZID16P-C16
G70V-SID16P-1-C16			PNP (+ common)	G70V-ZID16P-1-C16
G70V-SOC16P	Output	No internal connections	NPN (+ common)	G70V-ZOM16P
G70V-SOC16P-1			PNP (– common)	G70V-ZOM16P-1
G70V-SOC16P-C4		Every 4 points internally connected at terminal block bottom row	NPN (+ common)	G70V-ZOM16P-C4
G70V-SOC16P-1-C4			PNP (– common)	G70V-ZOM16P-1-C4
---		Every 4 points internally connected at terminal block middle row	NPN (+ common)	G70V-ZOM16P-C4-D
*			PNP (– common)	G70V-ZOM16P-1-C4-D

**Note:** 1. Relays are not mounted to the G70V-ZID16P(-1)(-C16) I/O Terminal Sockets. Combine the I/O Terminal Sockets with Slim I/O Relays.

2. Relays are not mounted to the G70V-ZOM16P(-1)(-C4) I/O Terminal Sockets. Combine the I/O Terminal Sockets with Slim I/O Relays or Slim I/O SSRs.

\* The G70V-ZOM16P(-1)-C4-D does not come with SSRs. Use Slim I/O SSRs (for DC: G3RV-D03SL).

## Options (Order Separately)

### Mountable Relays

Applicable I/O Relay Terminal	Classification	Type		Model
G70V-SID16P(-1)(-C16) G70V-ZID16P(-1)(-C16)	Input	Slim I/O Relays *1		G2RV-1-S-AP-G DC21
G70V-SOC16P(-1)(-C4) G70V-ZOM16P(-1)(-C4)	Output	Slim I/O Relays	No Latching Lever *2	G2RV-1-S-G DC21
			Latching Lever	G2RV-1-SI-G DC21
		Slim I/O SSRs	For AC	G3RV-202S DC24
			No zero cross function	G3RV-202SL DC24
G70V-ZOM16P(-1)-C4-D *3	Output	Slim I/O SSRs	For DC	G3RV-D03SL DC24

**Note:** When using Slim I/O SSRs, either remove the Slim I/O Relays from the output G70V-SOC16P(-1)(-C16) to mount them, or order the output G70V-ZOM16P(-1)(-C16) I/O Terminal Sockets and the Slim I/O SSRs separately and combine them.

\*1. G2RV-1-S-AP-G Slim I/O Relays are mounted to G70V-SID16P(-1)(-C16) I/O Relay Terminals as a standard feature.

\*2. G2RV-1-S-G Slim I/O Relays are mounted to G70V-SOC16P(-1)(-C4) I/O Relay Terminals as a standard feature.

\*3. The G70V-ZOM16P(-1)-C4-D does not come with SSRs. Use Slim I/O SSRs (for DC: G3RV-D03SL).


When ordering, designate the rated voltage.

### 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/Otax connectors	(1:1):	XW2Z-R□C	MIL connectors
	(1:2):	XW2Z-R□C-□	(1:1):
	(1:3):	XW2Z-RO□C-□	(1:2):
		XW2Z-R□C-□-□	XW2Z-RI□C
			XW2Z-RO□C
			XW2Z-RI□-□-D□
			XW2Z-RM□-□-D□
			XW2Z-RO□-□-D1

Refer to *Connecting Cables* on page 24 for details.

### Labels

Appearance	Model	Minimum order (sheet) (quantity per sheet)
	XW5Z-P2.5LB2	5 (1 sheet / 72 pieces)

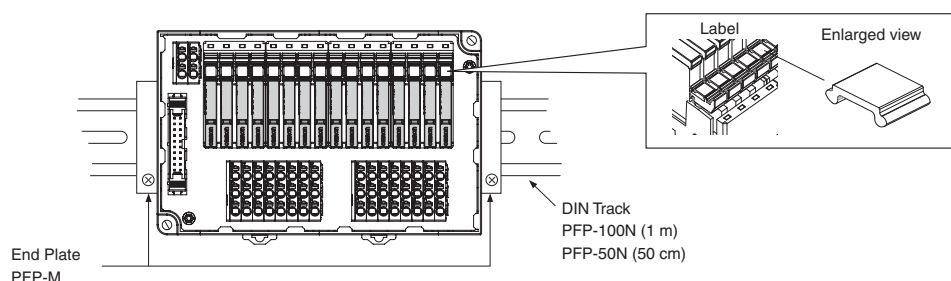
## Accessories for DIN Track Mounting

Appearance	Name		Model	Minimum order (quantity)
	DIN Tracks	1 m	PFP-100N	1
		0.5 m	PFP-50N	
	End Plate		PFP-M *	10
	Spacer		PFP-S *	

\* These products must be ordered in sets of 10.

## Option Mounting Example

### Mounting to DIN Track



## Specifications

### Coil Ratings (Common to Input/Output per Relay)

Item	Rated voltage (V)	Rated current (mA)	Coil resistance ( $\Omega$ )	Must operate of rated voltage	Must release of rated voltage	Maximum voltage of rated voltage	Power consumption (mW)
	24 VDC	13.3	1,575	80% max.	10% min.	110%	Approx. 280

**Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of  $\pm 15\%$  for coil resistance.  
 2. The operating characteristics are measured at a coil temperature of 23°C.  
 3. The value for maximum voltage is the maximum value within the allowable voltage fluctuation range for the relay coil's operating power supply. Continuous operation at this voltage is not within product specifications.  
 4. The rated current includes the current for the indicators on the I/O Relay Terminal.

### Contact Ratings (G2RV-1-S-G I/O Relay)

Classification	For input		For output	
	Resistive load ( $\cos\phi=1$ )		Resistive load ( $\cos\phi=1$ )	Inductive load ( $\cos\phi=0.4$ L/R=7 ms)
Rated load	50 mA at 30 VAC 50 mA at 36 VDC		6 A at 250 VAC 6 A at 30 VDC	2.5 A at 250 VAC 2 A at 30 VDC
Rated carry current	50 mA		6 A/point, 10 A/common	
Max. switching voltage	30 VAC, 36 VDC		250 VAC, 125 VDC	
Max. switching current	50 mA		6 A/point, 10 A/common	
Maximum switching capacity	---		1,500 VA 180 W	500 VA 60 W
Error rate (reference value) *	1 mA at 100 mVDC		10 mA at 5 VDC	
Electrical endurance	5,000,000 operations min.		NO contacts: 70,000 operations min. NC contacts: 50,000 operations min.	
Mechanical endurance	5,000,000 operations min.		5,000,000 operations min.	

\* The above values are for a switching frequency of 120 operations/min.

## Characteristics

Model		G70V-SID16P(-1)(-C16) (Input, DC coil)	G70V-SOC16P(-1)(-C4) (output, DC coil)
Item			
Contact form		SPST-NO × 16	SPDT × 16
Contact material		Ag alloy + Au plating	Ag alloy
Contact resistance *1		150 mΩ max.	
Must Operate time *2		20 ms max.	
Release time *2		40 ms max.	
Max. switching frequency	Mechanical limit	18,000 operations/h	
	At rated load	1,800 operations/h (under rated load)	
Insulation resistance		100 MΩ min.	
Dielectric strength		Between coil and contacts: 2,500 VAC for 1 min	
Vibration resistance		10 to 55 to 10 Hz with 0.5-mm single amplitude (1.0-mm double amplitude)	
Shock resistance		100 m/s <sup>2</sup> , 3 times each in 6 directions along 3 axes	
Noise immunity		Noise level: 1.5 kV; pulse width: 100 ns to 1 μs	
Ambient operating temperature		−40 to 55°C (with no icing or condensation)	
Ambient operating humidity		35% to 85%	
LED color	Power supply	Green	
	I/O	Yellow	
Weight		Approx. 350 g	Approx. 370 g

**Note:** The above values are initial values.

\*1. Measurement: 1 A at 5 VDC.

\*2. Ambient temperature: 23°C.

## Approved Standards

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

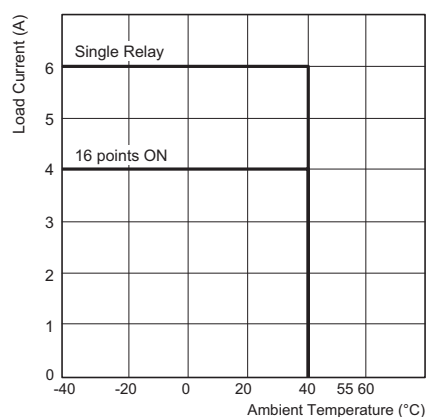
### UL standard certification (File No. E95399)

Type	Model	Ratings	Standard number	Category	Listed/Recognized	Contact ratings
I/O Relay Terminal	G70V-SID16P(-1)	24V DC	UL: 61010-2-201 CSA: C22.2 No.61010-2-201	NRAQ, NRAQ7	Listed	24V DC
	G70V-SID16P(-1)-C16					250V AC / 30V DC Resistive 4A at 40°C
	G70V-SOC16P(-1)				Recognized	24V DC
	G70V-SOC16P(-1)-C4					250V AC / 30V DC Resistive 4A at 40°C
I/O Terminal Sockets	G70V-ZID16P(-1)					24V DC
	G70V-ZID16P(-1)-C16					250V AC / 30V DC Resistive 4A at 40°C
	G70V-ZOM16P(-1)					24V DC
	G70V-ZOM16P(-1)-C4					250V AC / 30V DC Resistive 4A at 40°C
	G70V-ZOM16P(-1)-C4-D					24V DC

**Note:** 1. USL refers to certification in the US, and CNL refers to certification in Canada.

2. cULus certification has been obtained in Canada. (CAN/CSA-C22.2 No. 61010-2-201)

### G70V-SOC16P(-1)(-C16)(-C4), G70V-ZOM16P(-1)(-C16)(-C4)(-D): UL certification specifications



## TÜV Rheinland certification (Certification No. R50327604)

Type	Model	Ratings	Standard number	Operating coil	Contact ratings
I/O Relay Terminal	G70V-SID16P(-1)	24V DC	EN 61810-1	24V DC	24V DC 0.05A L/R=0ms
	G70V-SID16P(-1)-C16				single load: 250V AC 6A cos(phi)=1 16 loads: 250V AC 3A cos(phi)=1 16 loads: 30V DC 3A L/R=0ms 16 loads: 250V AC 5A cos(phi)=1 (Ta=+25°C) 16 loads: 30V DC 5A L/R=0ms (Ta=+25°C)
	G70V-SOC16P(-1)				250V AC / 30V DC 16 loads: 5A (Ta=+25°C) 16 loads: 3A (Ta=+55°C) 1 load: 6A Resistive load total max. 10A common line
	G70V-SOC16P(-1)-C4				250V AC / 30V DC 16 loads: 5A (Ta=+25°C) 16 loads: 3A (Ta=+55°C) 1 load: 6A Resistive load total max. 10A common line
I/O Terminal Sockets	G70V-ZID16P(-1)	24V DC	EN 61810-1	24V DC	24V DC 0.05A L/R=0ms
	G70V-ZID16P(-1)-C16				single load: 250V AC 6A cos(phi)=1 16 loads: 250V AC 3A cos(phi)=1 16 loads: 30V DC 3A L/R=0ms 16 loads: 250V AC 5A cos(phi)=1 (Ta=+25°C) 16 loads: 30V DC 5A L/R=0ms (Ta=+25°C)
	G70V-ZOM16P(-1)				250V AC / 30V DC 16 loads: 5A (Ta=+25°C) 16 loads: 3A (Ta=+55°C) 1 load: 6A Resistive load total max. 10A common line
	G70V-ZOM16P(-1)-C4				250V AC / 30V DC 16 loads: 5A (Ta=+25°C) 16 loads: 3A (Ta=+55°C) 1 load: 6A Resistive load total max. 10A common line
	G70V-ZOM16P(-1)-C4-D				

## CE Marking Compliance

Model	EMC Directive	Low Voltage Directive	Machinery Directive
G70V	Not applicable	○	Not applicable

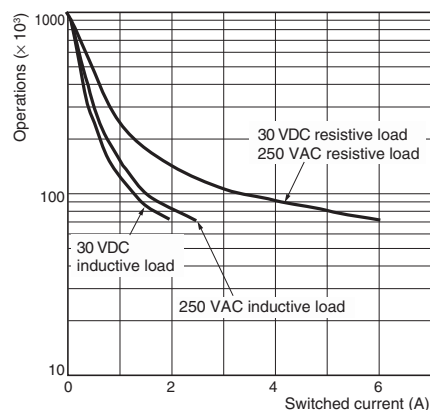
- Note:** 1. The Safety Category refers to the maximum applicable category selected when constructing control system safety components. The category does not apply to individual components.
2. Details and other information on conformity levels are issued as part of the "EU Declaration of Conformity." Please contact your OMRON representative for more information.

# G70V

## Engineering Data (Reference Value)

### Endurance Curve (NO Contacts)

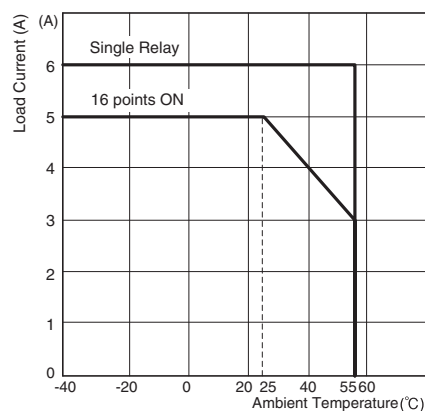
#### G70V-SOC16P(-1)(-C4)(-C16)



**Note:** These data are actual measured values that were sampled from the production line and prepared in graph format, and are for reference purposes only. A relay is manufactured by mass production, and as a basic rule must be used with allowance made for a certain amount of deviation.

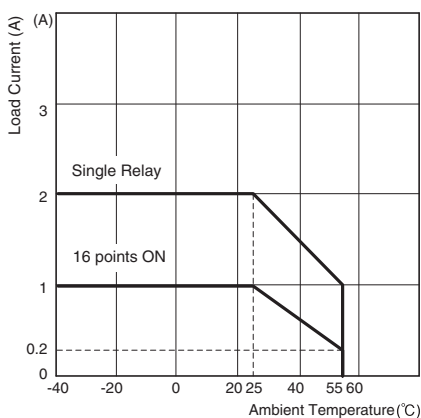
### Load Current vs. Ambient Temperature

#### G70V-SOC16P(-1)(-C4)(-C16)

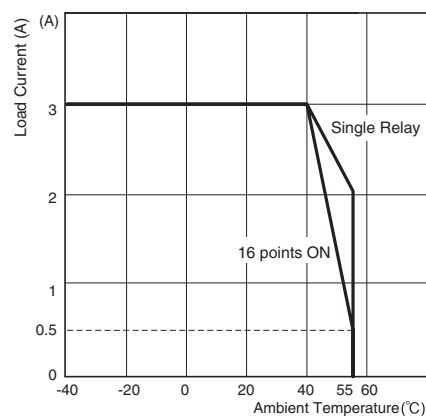


#### G3RV-202S DC24 (when installed)

#### G3RV-202SL DC24 (when installed)



#### G3RV-D03 DC24 (when installed)



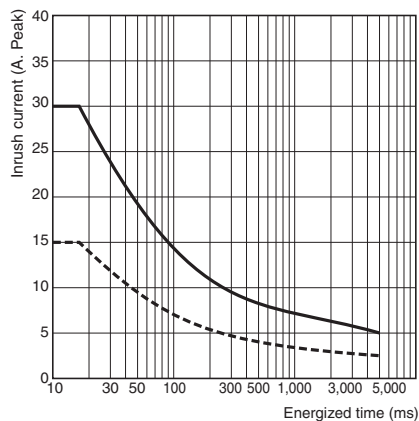
### Inrush Current Resistance: Non-repetitive

The following graphs show the maximum inrush currents that can be withstood for non-repetitive operation.

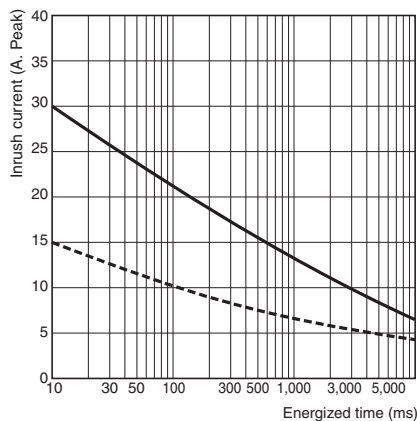
For repetitive operation, the figures should be reduced by half.

#### G3RV-202S DC24

#### G3RV-202SL DC24



#### G3RV-D03 DC24

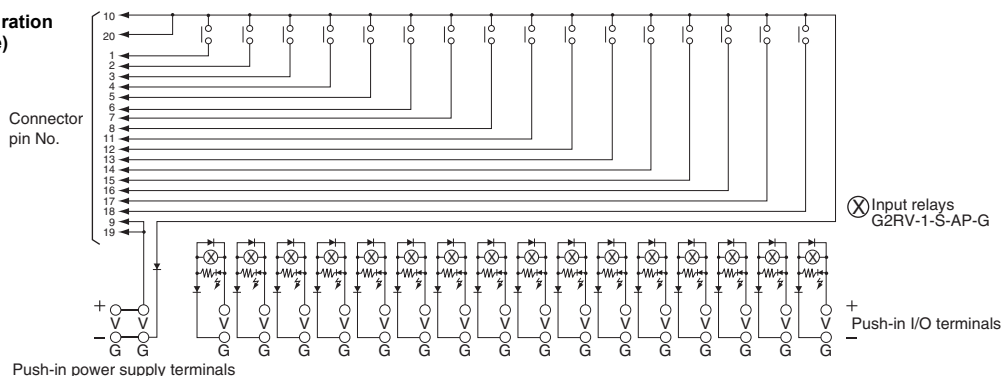
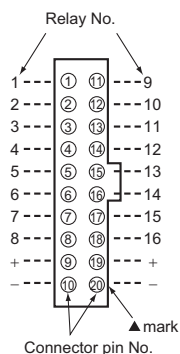


## Internal Circuits

### G70V-SID16P

(NPN input/- common)

Connector Pin (male) Configuration  
(View from engaged side)



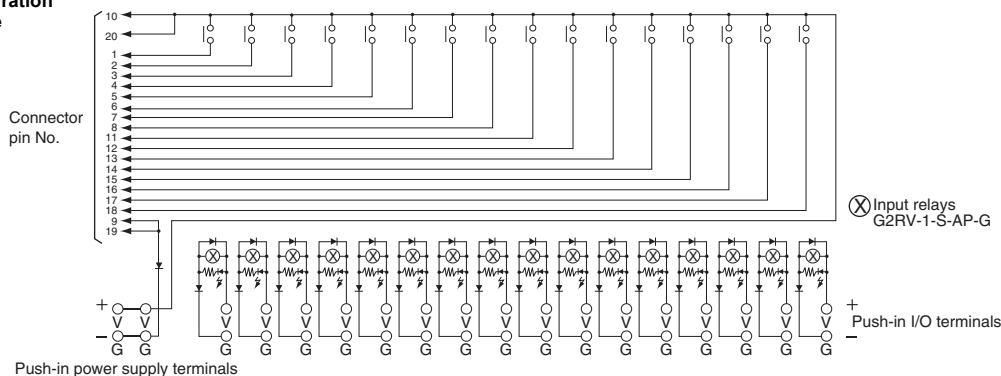
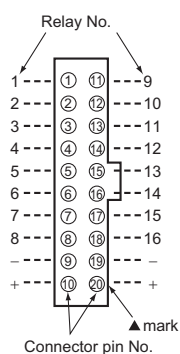
**Note:** Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

### G70V-SID16P-1

(PNP input/+ common)

Connector Pin (male) Configuration  
View from engaged side

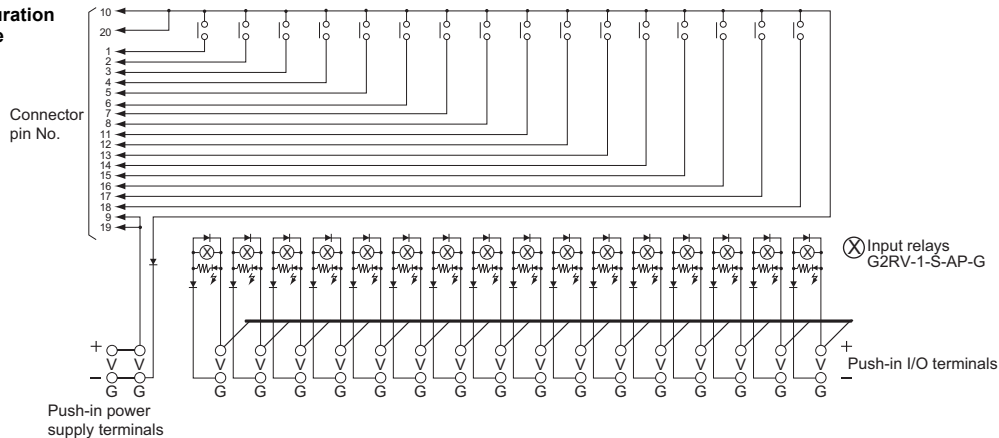
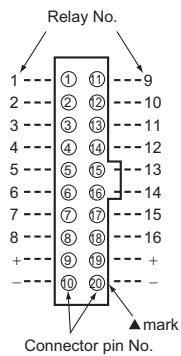


**Note:** Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

G70V-SID16P-C16  
(NPN input/- common)

Connector Pin (male) Configuration  
View from engaged side

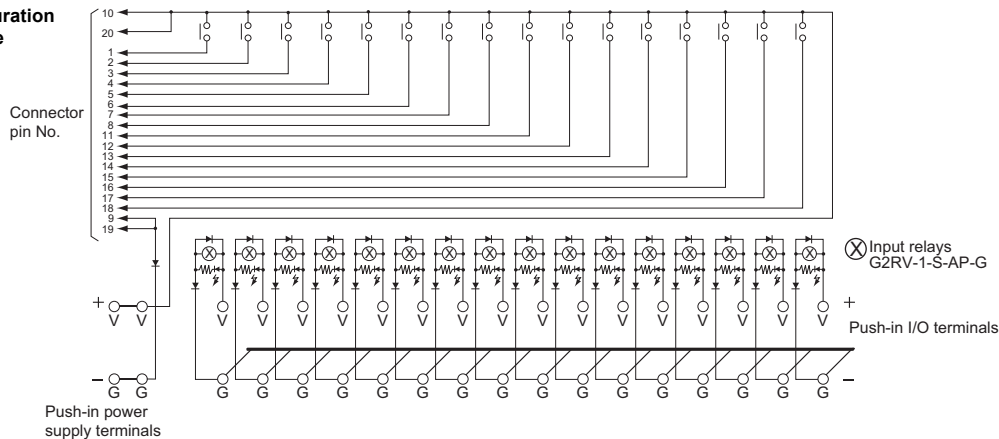
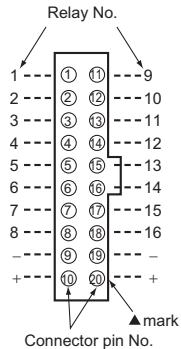


**Note:** Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

G70V-SID16P-1-C16  
(PNP input/+ common)

Connector Pin (male) Configuration  
View from engaged side



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

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

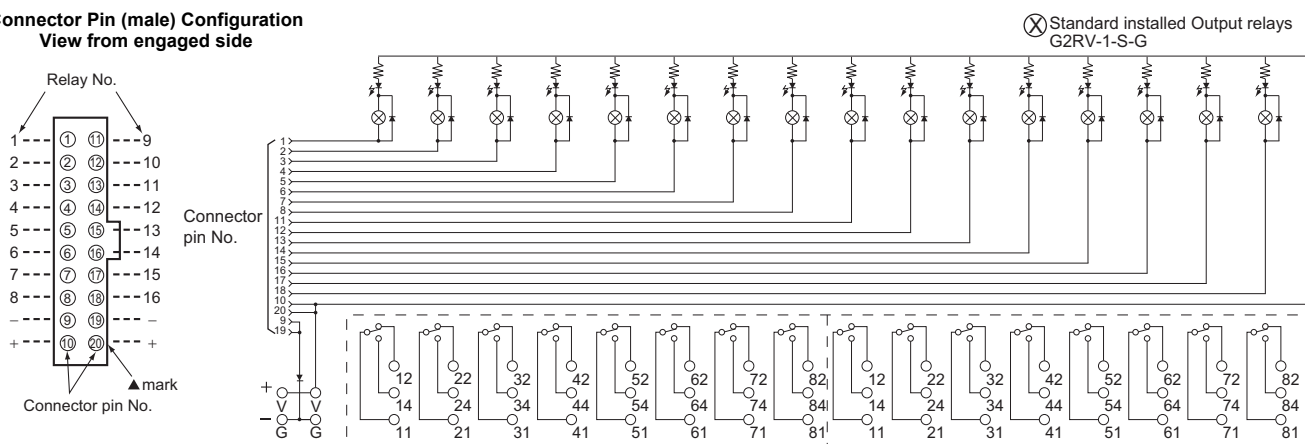


## G70V-SOC16P

(NPN output/+ common)

**Note:** A controller with an NPN transistor, common output can be connected to the G70V-SOC16P.

**Connector Pin (male) Configuration  
View from engaged side**



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

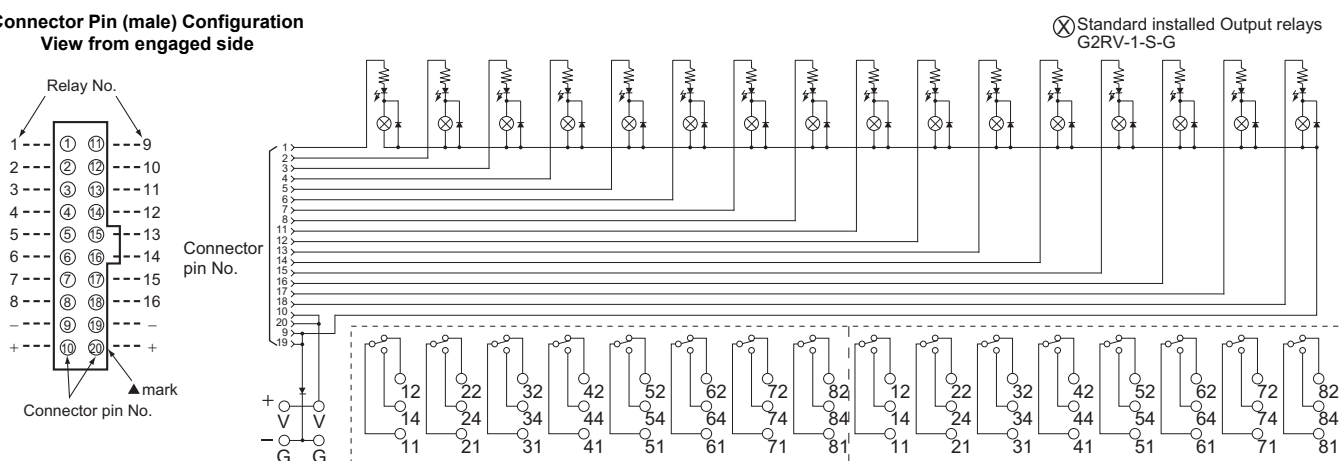
Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

**G70V-SOC16P-1**

(PNP output/- common)

**Note:** A controller with a PNP transistor, + common output can be connected to the G70V-SOC16P-1.

**Connector Pin (male) Configuration**  
**View from engaged side**



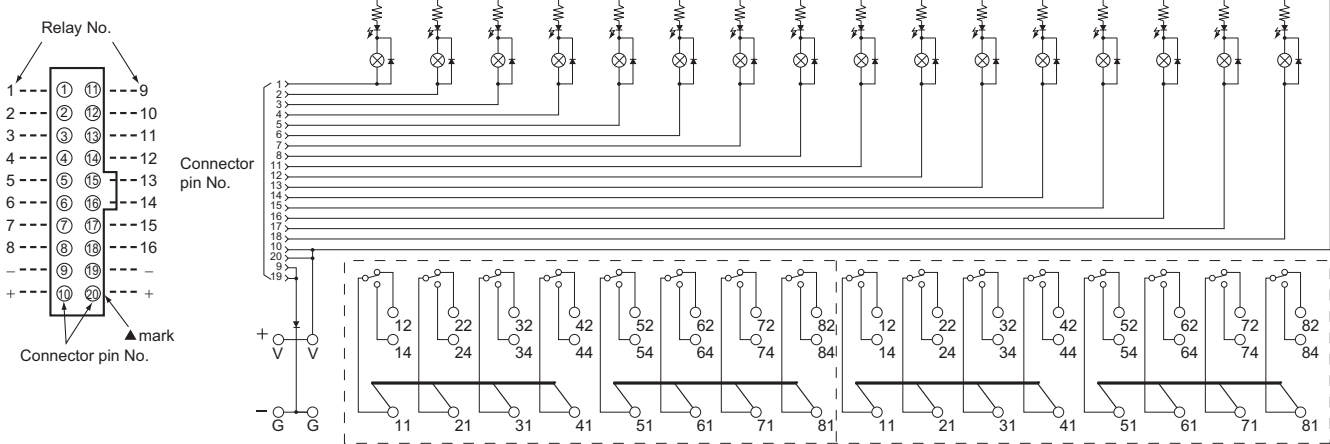
**Note:** Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

G70V-SOC16P-C4  
(NPN output/+ common)

Note: A controller with an NPN transistor, common output can be connected to the G70V-SOC16P-C4.

Connector Pin (male) Configuration  
View from engaged side



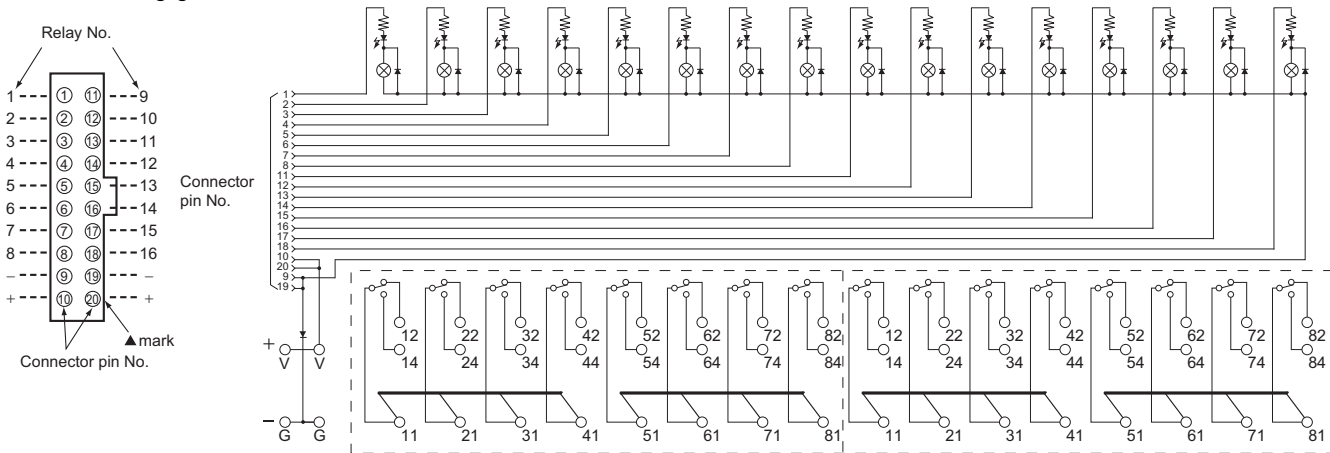
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

G70V-SOC16P-1-C4  
(PNP output/- common)

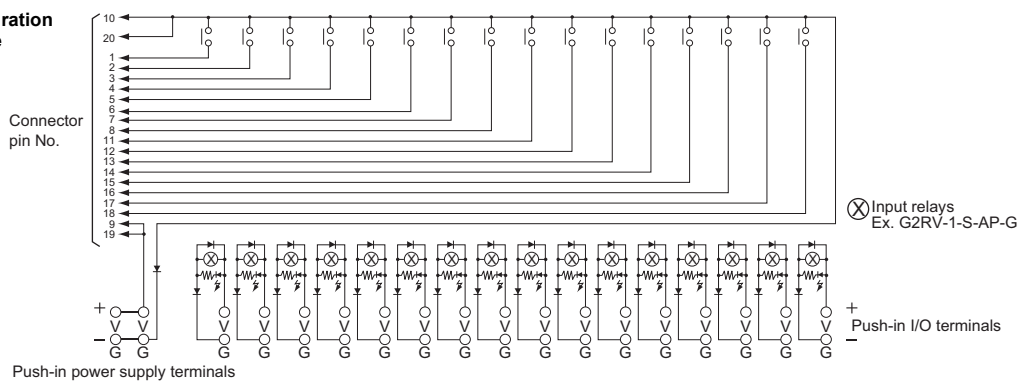
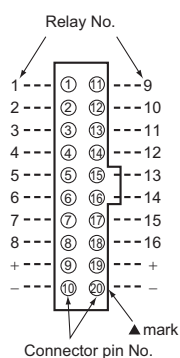
Note: A controller with a PNP transistor, + common output can be connected to the G70V-SOC16P-1-C4.

Connector Pin (male) Configuration  
View from engaged side



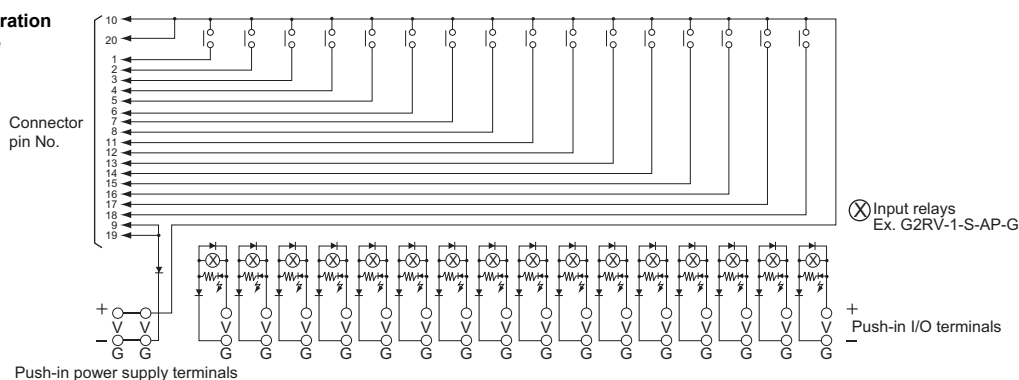
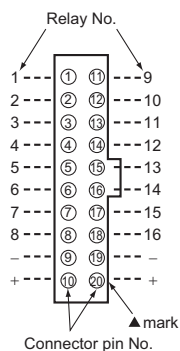
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

**G70V-ZID16P****(NPN input/- common)****Note:** A controller with an NPN common input can be connected to the G70V-ZID16P.**Connector Pin (male) Configuration**  
**View from engaged side**

**Note:** 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
2. Relays are not mounted.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

**G70V-ZID16P-1****(PNP input/+ common)****Note:** A controller with an NPN + common input can be connected to the G70V-ZID16P-1.**Connector Pin (male) Configuration**  
**View from engaged side**

**Note:** 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
2. Relays are not mounted.

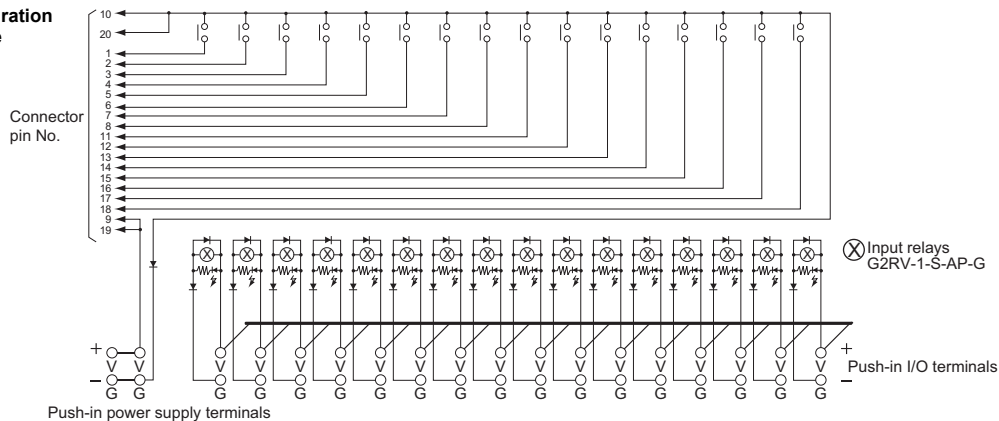
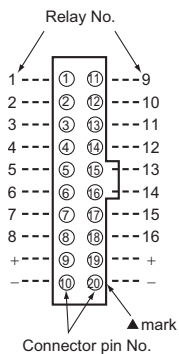
Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

G70V-ZID16P-C16

(NPN input/- common)

Note: A controller with an PNP common input can be connected to the G70V-ZID16P-C16.

Connector Pin (male) Configuration  
View from engaged side



- Note: 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
2. Relays are not mounted.

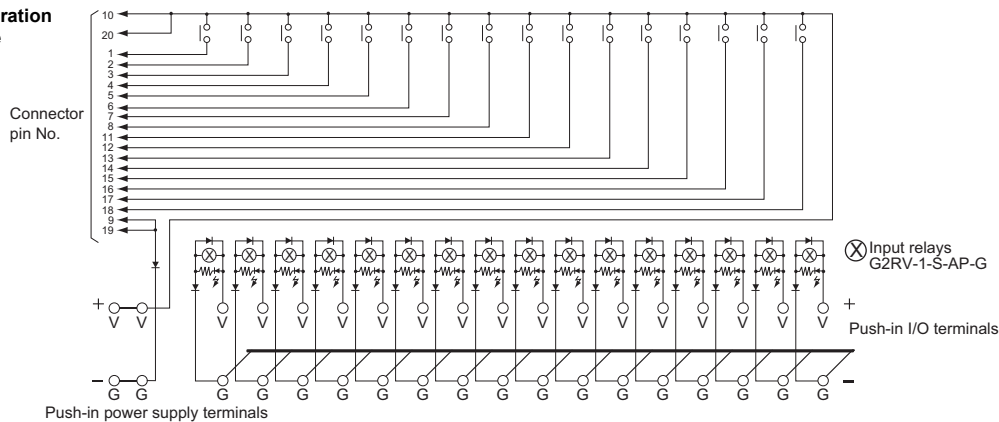
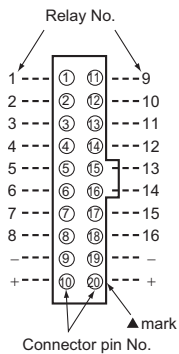
Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

G70V-ZID16P-1-C16

(PNP input/+ common)

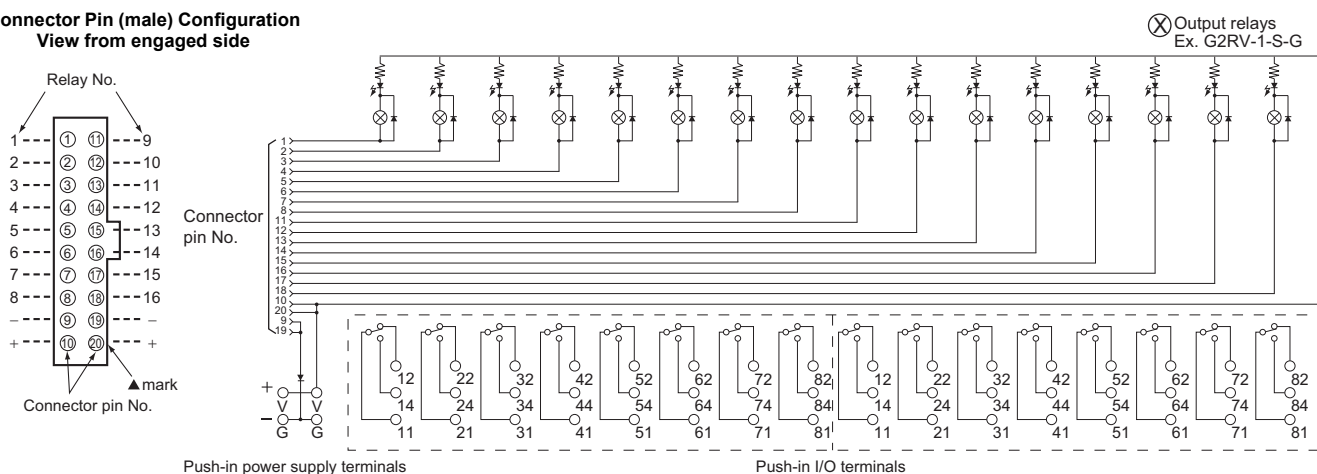
Note: A controller with an NPN + common input can be connected to the G70V-ZID16P-1-C16.

Connector Pin (male) Configuration  
View from engaged side



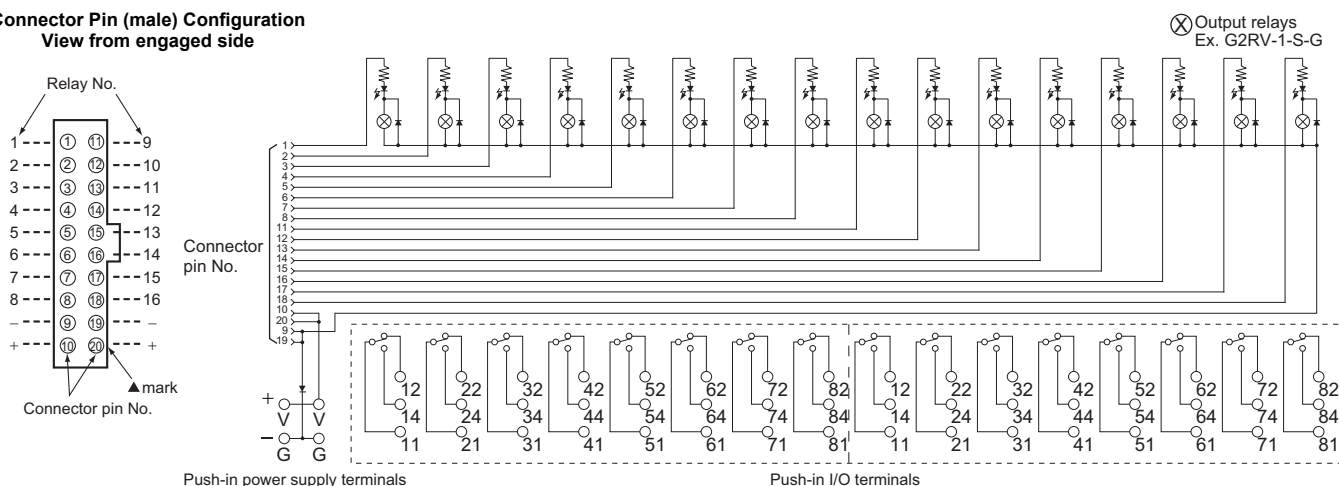
- Note: 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
2. Relays are not mounted.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

**G70V-ZOM16P****(NPN output/+ common)****Note:** A controller with an PNP transistor, + common output can be connected to the G70V-ZOM16P.**Connector Pin (male) Configuration**  
**View from engaged side**

- Note:** 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
 2. A controller with an NPN transistor, - common output can be connected to the G70V-ZOM16P.  
 3. Relays are not mounted.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

**G70V-ZOM16P-1****(PNP output/- common)****Note:** A controller with an NPN transistor, common output can be connected to the G70V-ZOM16P-1.**Connector Pin (male) Configuration**  
**View from engaged side**

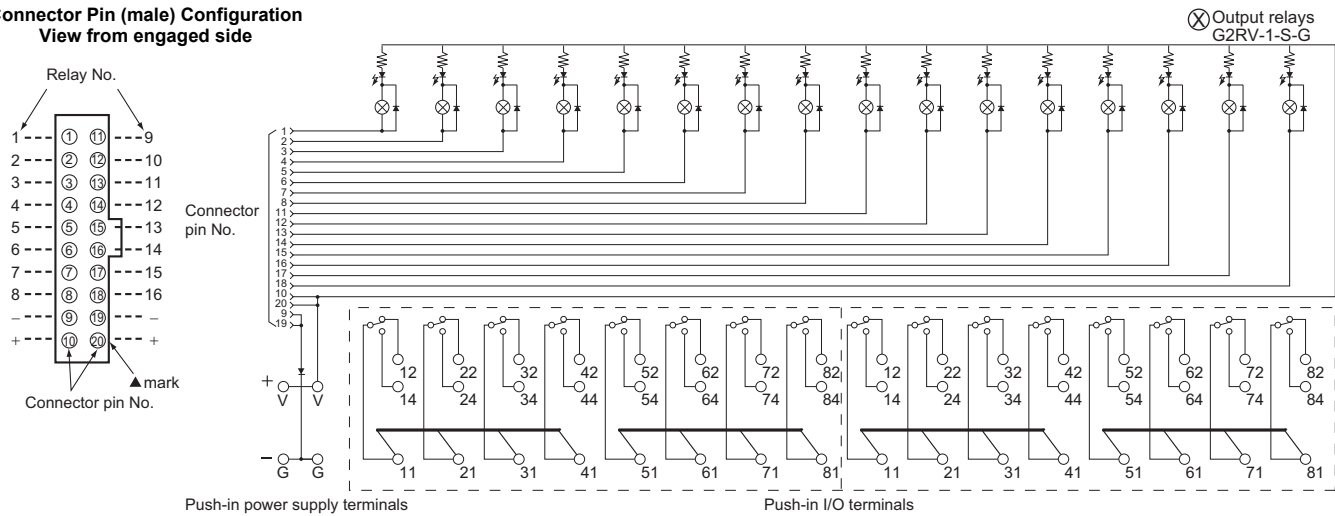
- Note:** 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
 2. A controller with an PNP transistor, + common output can be connected to the G70V-ZOM16P-1.  
 3. Relays are not mounted.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

G70V-ZOM16P-C4  
(NPN output/+ common)

Note: A controller with an PNP transistor, + common output can be connected to the G70V-ZOM16P-C4.

Connector Pin (male) Configuration  
View from engaged side



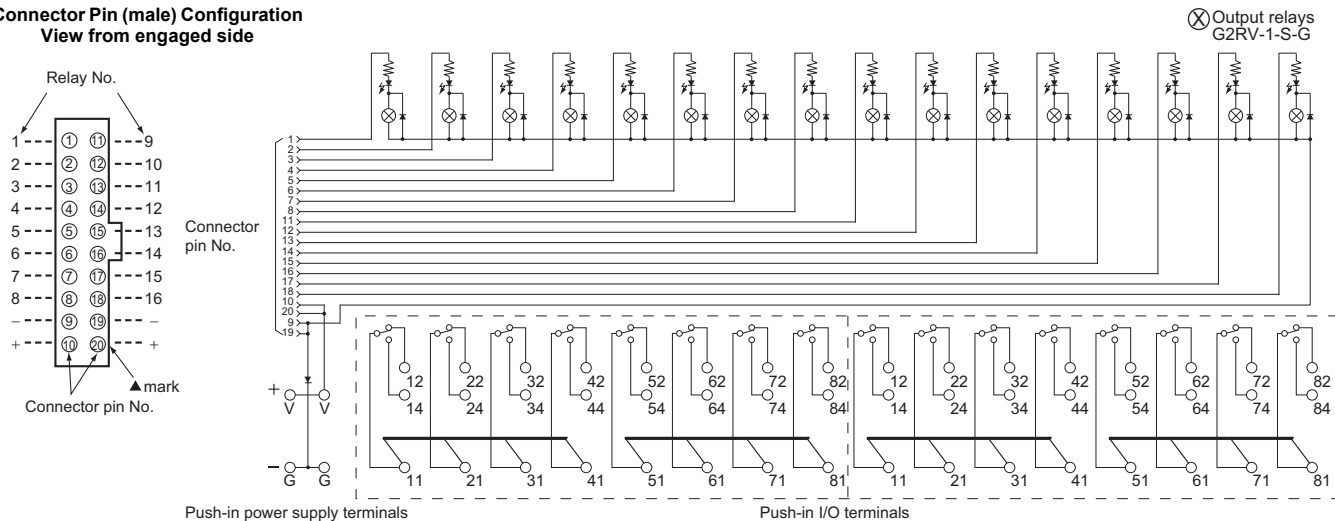
- Note: 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
2. A controller with an NPN transistor, - common output can be connected to the G70V-ZOM16P-C4.  
3. Relays are not mounted.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

G70V-ZOM16P-1-C4  
(PNP output/- common)

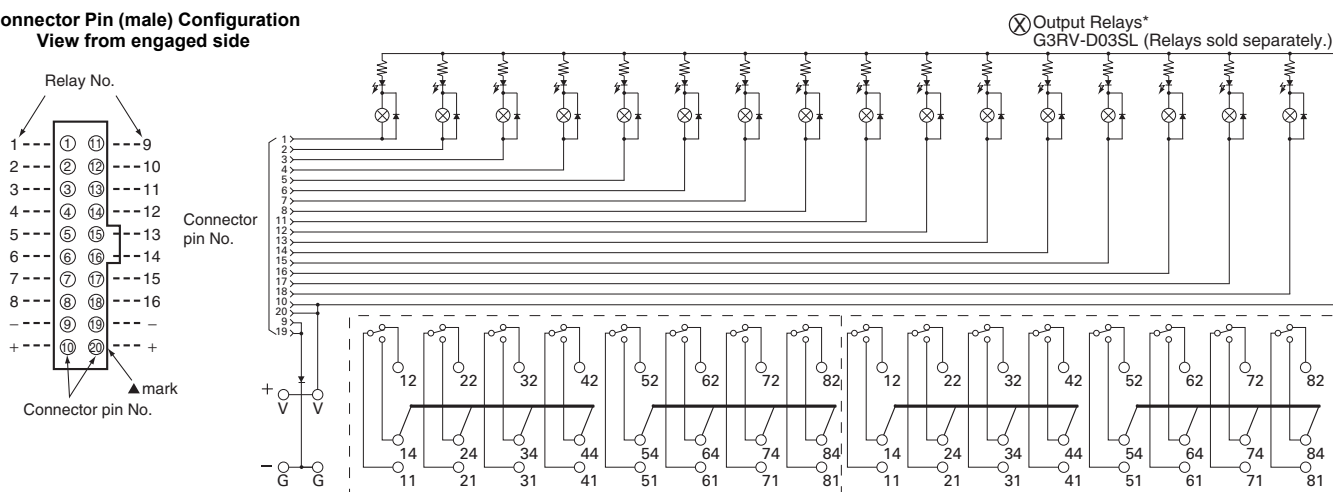
Note: A controller with an PNP transistor, common output can be connected to the G70V-ZOM16P-1-C4.

Connector Pin (male) Configuration  
View from engaged side



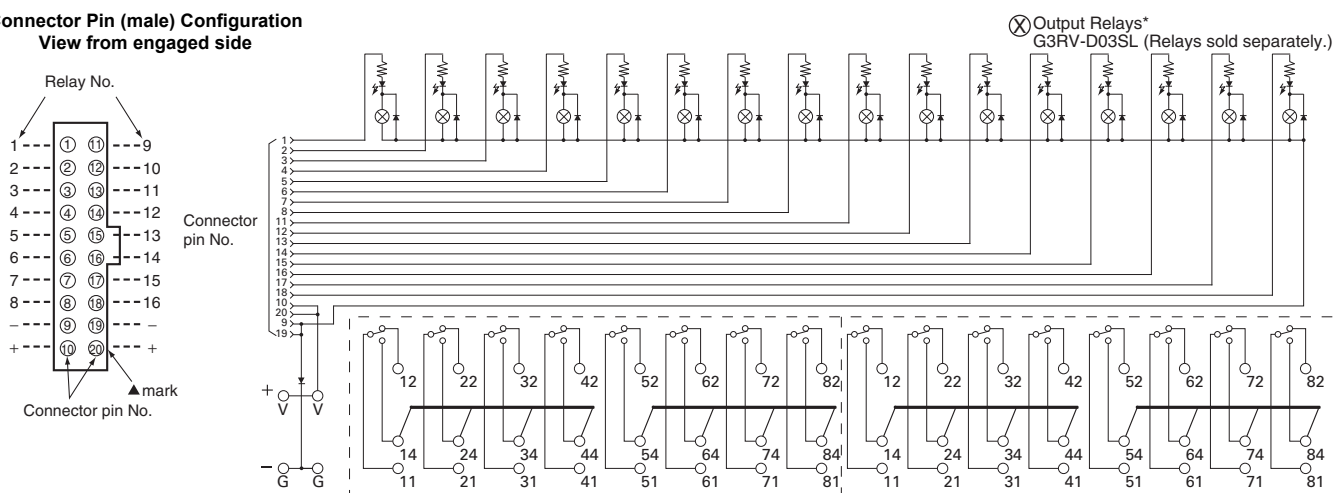
- Note: 1. Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.  
2. A controller with an PNP transistor, + common output can be connected to the G70V-ZOM16P-1-C4.  
3. Relays are not mounted.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

**G70V-ZOM16P-C4-D****(NPN output/- common)****Note:** A controller with an NPN transistor, common output can be connected to the G70V-ZOM16P-C4-D.**Connector Pin (male) Configuration**  
**View from engaged side****Note:** Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal SSR output terminal +)	SSR contact terminals
12 to 82 (push-in I/O terminal Open terminal)	
14 to 84 (push-in I/O terminal SSR output terminal -)	

\* The G70V-ZOM16P-C4-D does not come with SSRs. Use Slim I/O SSRs (for DC: G3RV-D03SL).

**G70V-ZOM16P-1-C4-D****(PNP output/- common)****Note:** A controller with a PNP transistor, common output can be connected to the G70V-ZOM16P-1-C4-D.**Connector Pin (male) Configuration**  
**View from engaged side****Note:** Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal SSR output terminal +)	SSR contact terminals
12 to 82 (push-in I/O terminal Open terminal)	
14 to 84 (push-in I/O terminal SSR output terminal -)	

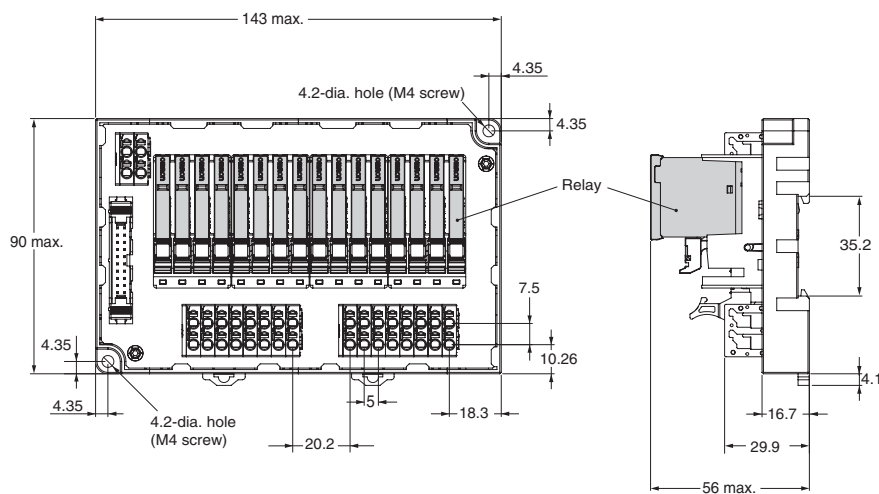
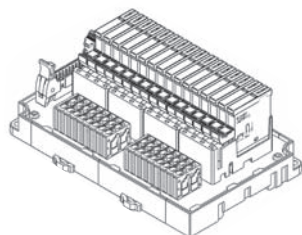
\* The G70V-ZOM16P-1-C4-D does not come with SSRs. Use Slim I/O SSRs (for DC: G3RV-D03SL).

## Main unit

## I/O Relay Terminals and I/O Terminal Sockets

## For Inputs

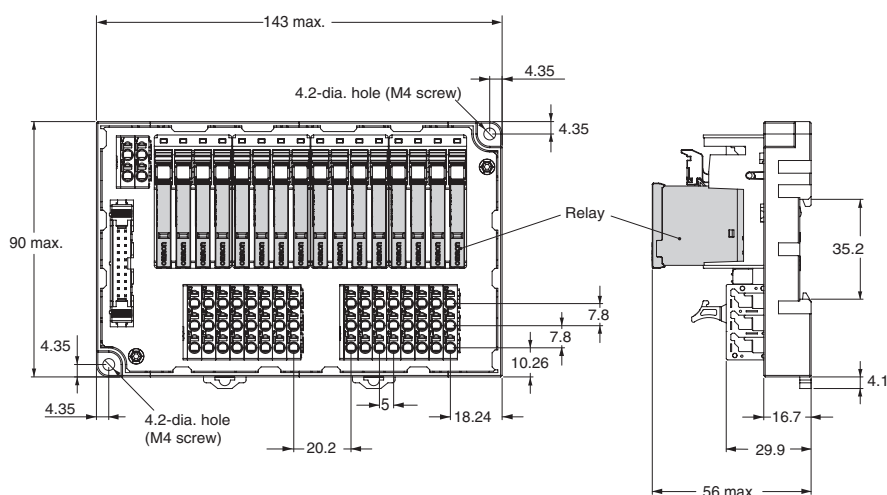
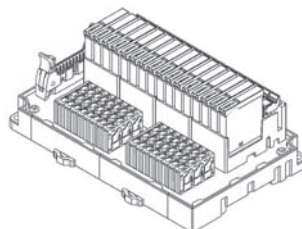
G70V-SID16P  
 G70V-SID16P-1  
 G70V-ZID16P  
 G70V-ZID16P-1  
 G70V-SID16P-C16  
 G70V-SID16P-1-C16  
 G70V-ZID16P-C16  
 G70V-ZID16P-1-C16



**Note:** 1. Relays are not mounted to the G70V-ZID16P(-1)(-C16) I/O Terminal Sockets.  
 2. Specified screw mounting torque: 0.59 to 0.98 N·m.

## For Outputs

G70V-SOC16P  
 G70V-SOC16P-1  
 G70V-ZOM16P  
 G70V-ZOM16P-1  
 G70V-SOC16P-C4  
 G70V-SOC16P-1-C4  
 G70V-ZOM16P-C4  
 G70V-ZOM16P-1-C4  
 G70V-ZOM16P-C4-D  
 G70V-ZOM16P-1-C4-D



**Note:** 1. Relays are not mounted to the G70V-ZOM16P(-1)(-C4)(-D) I/O Terminal Sockets.  
 2. Specified screw mounting torque: 0.59 to 0.98 N·m.



## Options (Order Separately)

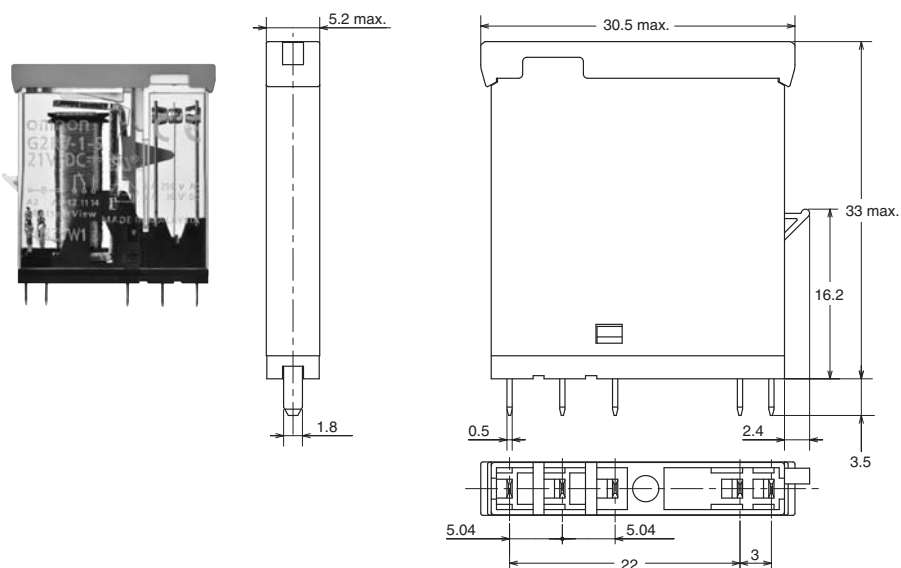
### Mountable Relays

#### Slim I/O Relays

#### Models without latching lever

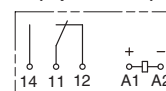
G2RV-1-S-G

G2RV-1-S-AP-G



Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

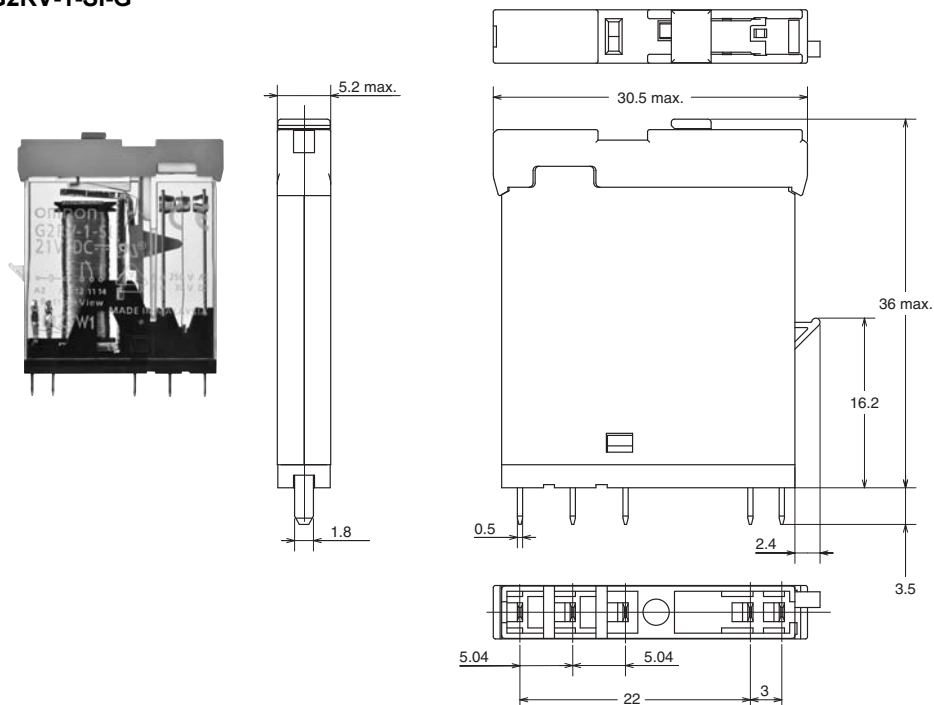
(Input circuit)



#### Slim I/O Relays

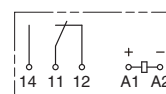
#### Models with latching lever (test switch)

G2RV-1-SI-G

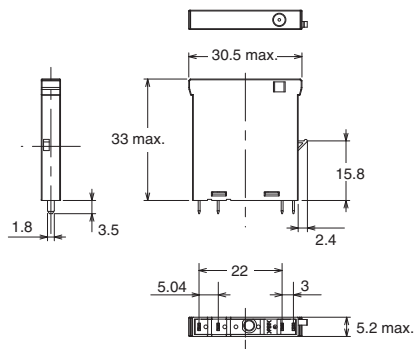


Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

(Input circuit)

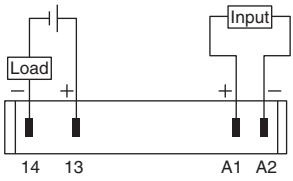


Slim I/O SSRs  
G3RV-D03SL  
G3RV-202S  
G3RV-202SL

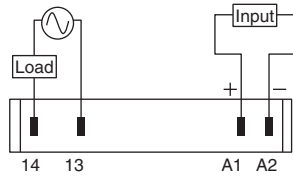


Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

G3RV-D03SL (input circuit)

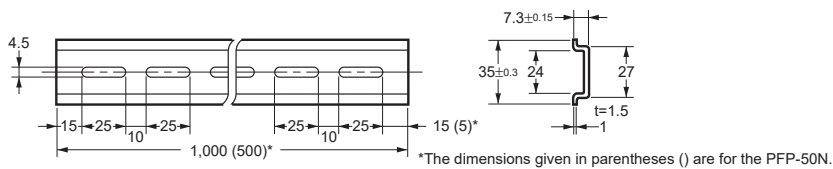
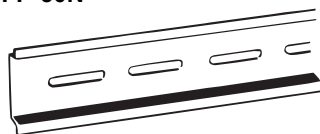


G3RV-202S(L) (input circuit)

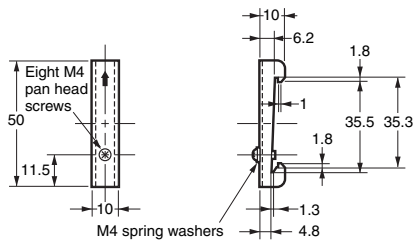


Parts for Rail Mounting

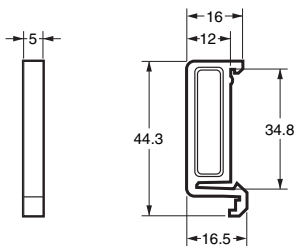
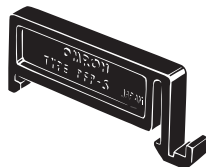
DIN Track  
PFP-100N  
PFP-50N



End Plate  
PFP-M



Spacer  
PFP-S

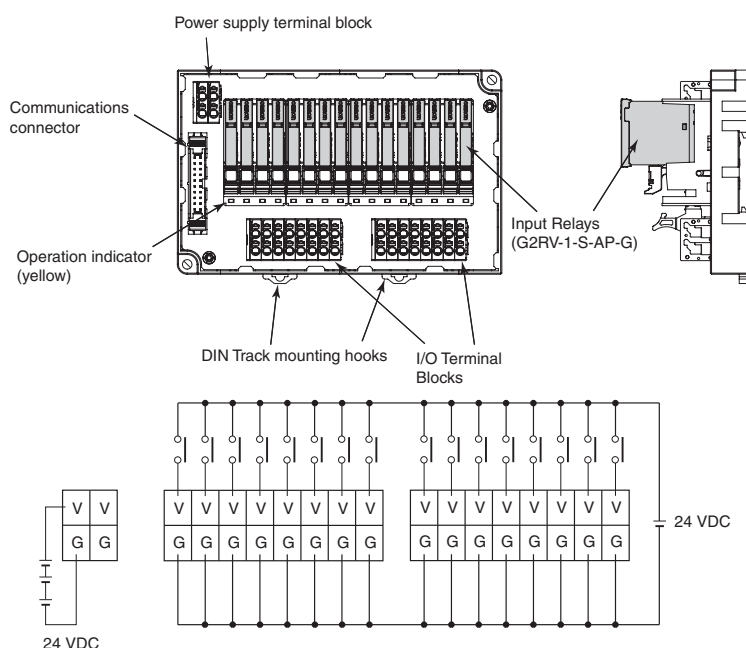


## Terminal Arrangement/Internal Connection

### For Inputs

G70V-SID16P  
G70V-SID16P-1  
G70V-ZID16P  
G70V-ZID16P-1

- Supply a power supply that meets the voltage specifications for both the Relays and I/O Relay Terminal to the V and G terminals.  
Make sure that the polarity is correct.  
The V terminals are positive and the G terminals are negative.
- Supply the rated voltage (24 VDC) of the Controller's input circuit to the power supply input terminals (V and G). Use a power supply with low noise.

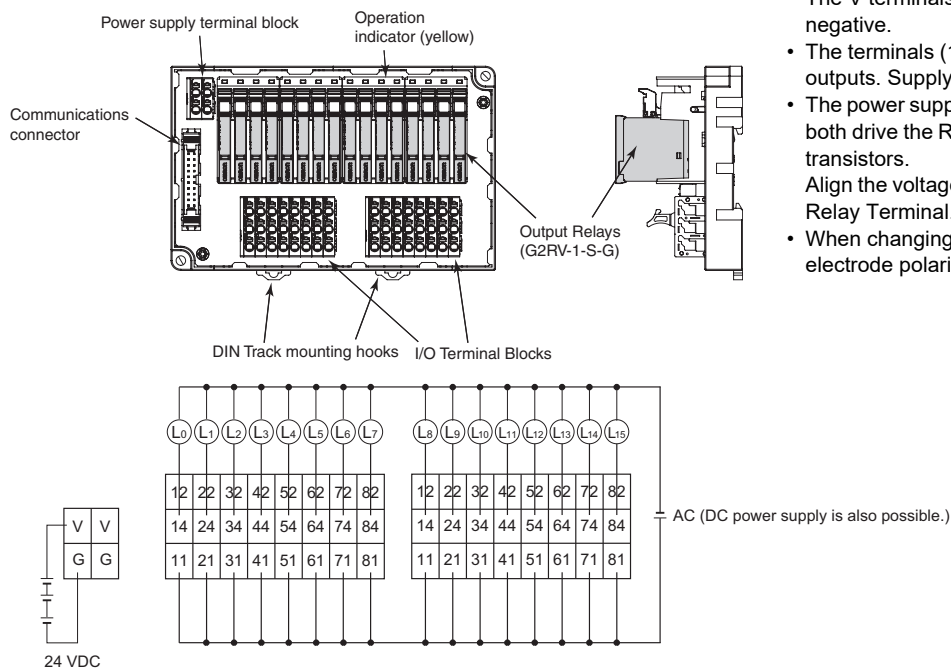


**Note:** Relay identification numbers are displayed from 1 to 16 in order from the left of the I/O terminal block.

## For Outputs

G70V-SOC16P  
G70V-SOC16P-1  
G70V-ZOM16P  
G70V-ZOM16P-1

- Supply a power supply that meets the voltage specifications for both the Relays and I/O Relay Terminal to the V and G terminals.  
Make sure that the polarity is correct.  
The V terminals are positive and the G terminals are negative.
- The terminals (11 to 81, 12 to 82, and 14 to 84) are contact outputs. Supply a suitable power supply for the loads.
- The power supply input terminals (V and G) supply power to both drive the Relays and to operate the Controller's output transistors.  
Align the voltage specifications of the Controller and the I/O Relay Terminal.
- When changing to a G3RV-D03SL, pay attention to the electrode polarity.



**Note:** Relay identification numbers are displayed from 1 to 16 in order from the left of the I/O terminal block.

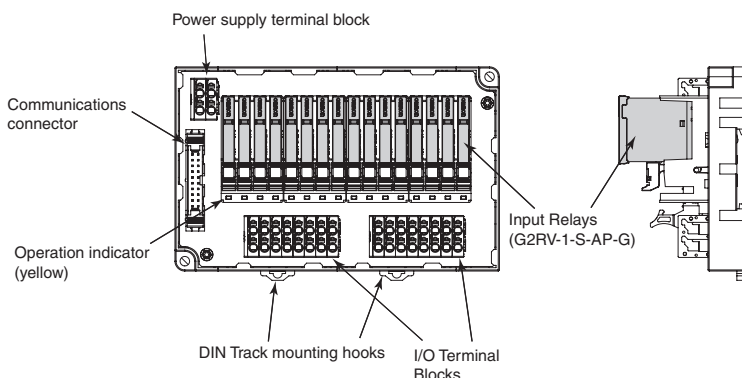
## For Inputs

**G70V-SID16P-C16**

**G70V-SID16P-1-C16**

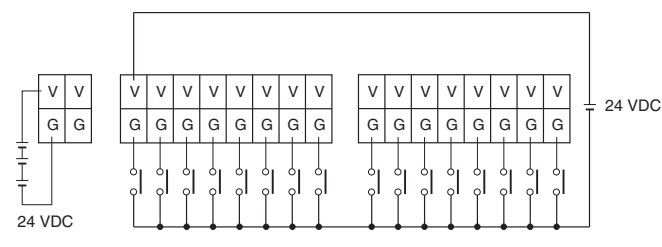
**G70V-ZID16P-C16**

**G70V-ZID16P-1-C16**

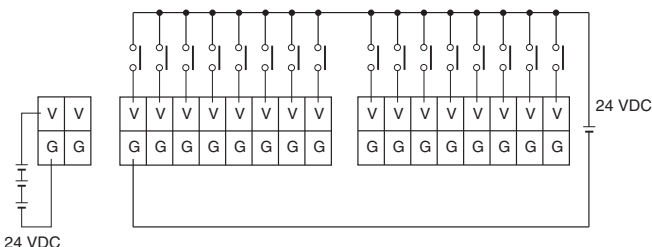


- Supply a power supply that meets the voltage specifications for both the Relays and I/O Relay Terminal to the V and G terminals. Make sure that the polarity is correct. The V terminals are positive and the G terminals are negative.
- Supply the rated voltage (24 VDC) of the Controller's input circuit to the power supply input terminals (V and G). Use a power supply with low noise.

**G70V-SID16P-C16**



**G70V-SID16P-1-C16**



**Note:** Relay identification numbers are displayed from 1 to 16 in order from the left of the I/O terminal block.

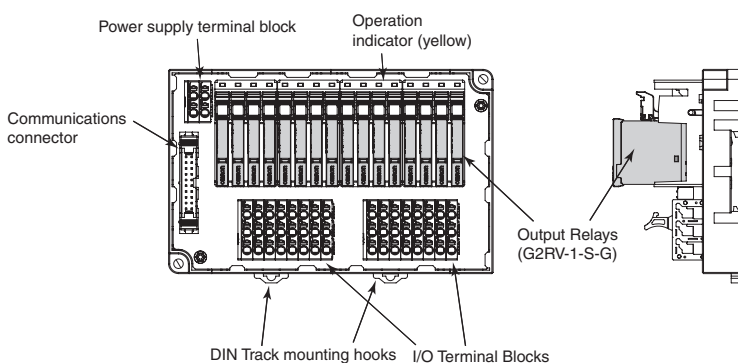
## For Outputs

**G70V-SOC16P-C4**

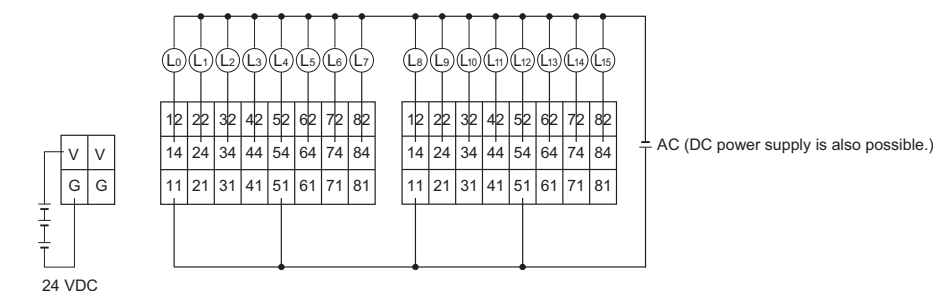
**G70V-SOC16P-1-C4**

**G70V-ZOM16P-C4**

**G70V-ZOM16P-1-C4**



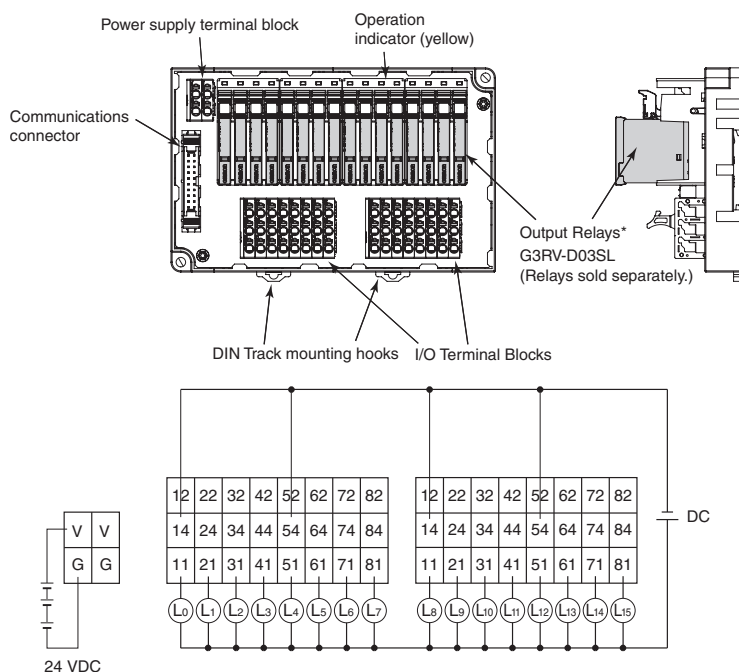
- Supply a power supply that meets the voltage specifications for both the Relays and I/O Relay Terminal to the V and G terminals. Make sure that the polarity is correct. The V terminals are positive and the G terminals are negative.
- The terminals (11 to 81, 12 to 82, and 14 to 84) are contact outputs. Supply a suitable power supply for the loads.
- The power supply input terminals (V and G) supply power to both drive the Relays and to operate the Controller's output transistors. Align the voltage specifications of the Controller and the I/O Relay Terminal.
- When changing to a G3RV-D03SL, pay attention to the electrode polarity.



**Note:** Relay identification numbers are displayed from 1 to 16 in order from the left of the I/O terminal block.

## For Outputs

G70V-ZOM16P-C4-D  
G70V-ZOM16P-1-C4-D



- Supply a power supply that meets the voltage specifications for both the Relays and I/O Relay Terminal to the V and G terminals.  
Make sure that the polarity is correct.  
The V terminals are positive and the G terminals are negative.
- The terminals (11 to 81 and 14 to 84) are contact outputs. Supply a suitable power supply for the loads. Make sure that polarity of the output terminal is correct.
- The power supply input terminals (V and G) supply power to both drive the Relays and to operate the Controller's output transistors.  
Align the voltage specifications of the Controller and the I/O Relay Terminal.

\* The G70V-ZOM16P(-1)-C4-D does not come with SSRs.  
Use Slim I/O SSRs (for DC: G3RV-D03SL).

**Note:** Relay identification numbers are displayed from 1 to 16 in order from the left of the I/O terminal block.

## Safety Precautions

Be sure to read *The Safety Precautions for All I/O Relay Terminals* in the website at the following URL:  
<http://www.ia.omron.com/product/cautions/46/243/index.html>.

### Warning Indications

<b>Precautions for Safe Use</b>	<b>Supplementary comments on what to do or avoid doing, to use the product safely.</b>
<b>Precautions for Correct Use</b>	<b>Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.</b>

### Precautions for Safe Use

#### Transportation

- Do not transport the I/O Relay Terminal under the following locations. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
  - Locations subject to water or oil
  - Locations subject to high temperature or high humidity
  - Locations subject to condensation due to rapid changes in temperature

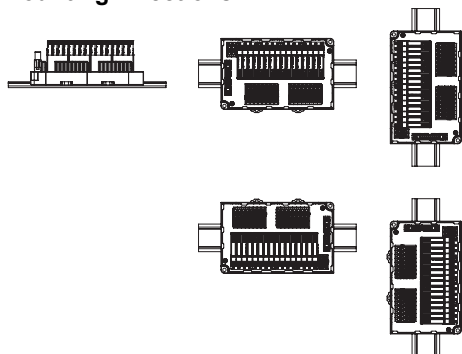
#### Operating and Storage Environments

- Do not use or store the I/O Relay Terminal in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
  - Locations subject to rainwater or water splashes
  - Locations subject to exposure to water, oil, or chemicals
  - Locations subject to high temperature or high humidity
  - Locations subject to ambient storage temperatures outside the range -40 to 65°C
  - Locations subject to ambient operating temperatures outside the range -40 to 55°C
  - Locations subject to relative humidity outside the range 35% to 85% or locations in which condensation may occur due to rapid changes in temperature
  - Locations subject to corrosive gases or inflammable gases
  - Locations subject to dust, salts, or iron, or locations where there is salt damage
  - Locations subject to direct sunlight
  - Locations subject to shock or vibration

#### Installation and Mounting

- Mount the I/O Relay Terminal in the specified direction. Otherwise excessive heat generated by the I/O Relay Terminal may occasionally cause burning.

##### Mounting Directions



- Mount the I/O Relay Terminal firmly to a DIN Track. Otherwise, the I/O Relay Terminal may fall off.
- Do not handle the I/O Relay Terminal with oily or dusty (especially iron dust) hands.
- Make sure that there is no excessive ambient temperature rise due to the heat generation of the I/O Relay Terminal. If the I/O Relay Terminal is mounted inside a panel, install a fan so that the interior of the panel is fully ventilated.

#### Installation and Wiring

- Use wires that are suited to the load current and voltage. Otherwise, excessive heat generated by the wires may cause burning or may cause the wire covering to melt, possibly leading to electric shock.
- Do not use wires with a damaged outer covering. Otherwise, it may result in electric shock or ground leakage.
- Do not wire any wiring in the same duct or conduit as power or high-tension lines. Otherwise, inductive noise may damage the I/O Relay Terminal or cause it to malfunction.
- Do not apply a voltage or current that exceeds the rating to any terminal. Doing so may result in failure or burning.

#### Push-In Plus Terminal Blocks

- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle. The terminal block may be damaged if you insert the screwdriver straight in.
- Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire disconnection.
- Do not insert more than one wire into each terminal insertion hole.
- To prevent wire materials from smoking or igniting, confirm wire ratings and use the wiring materials given in the following table. \*

Recommended wire gauge	Stripping length
0.25 to 1.5 mm <sup>2</sup> / AWG24 to AWG16 stranded wire, 0.5 to 1.3 mm solid wire	8 mm

\* The recommended wire gauge and stripping length values are for stranded wire or solid wire. When using ferrules, refer to the table of recommended ferrules in Precautions for Correct Use.

- Refer to the following table for wire sizes for external I/O devices according to the current flow.

AWG24 to AWG20	Maximum current flow: 6 A
AWG18 to AWG16	Maximum current flow: 10 A

#### Application

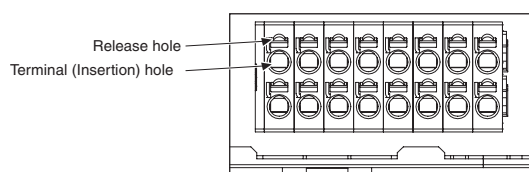
- Select a load within the rated values. Not doing so may result in malfunction, failure, or burning.
- The I/O Relay Terminal may occasionally rupture if short-circuit current flows. As protection against accidents due to short-circuiting, be sure to install protective devices, such as fuses and no-fuse breakers, on the power supply side.
- Use a power supply within the rated frequencies. Otherwise, malfunction, failure, or burning may occasionally occur.
- Minor electric shock may occasionally occur. Always turn OFF the power supply before performing wiring.

## Precautions for Correct Use

- Do not drop the I/O Relay Terminal or subject it to abnormal vibration or shock during transportation or mounting. Doing so may result in deterioration of performance, malfunction, or failure.
- Do not transport an I/O Relay Terminal when it is not packaged. Damage or failure may occur.
- Use a power supply with low noise.

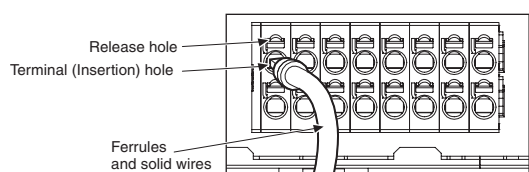
## Push-In Plus Terminal Blocks

### 1. Connecting Wires to the Push-In Plus Terminal Block Part Names of the Terminal Block



### Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.

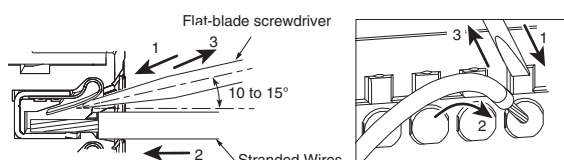


- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

### Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.  
The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block.
3. Remove the flat-blade screwdriver from the release hole.



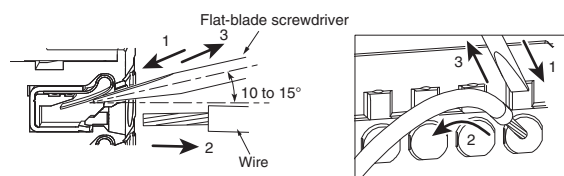
### Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

### 2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

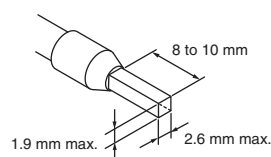
1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
3. Remove the flat-blade screwdriver from the release hole.



## 3. Recommended Ferrules and Crimp Tools Recommended ferrules

Applicable wire		Ferrule Conductor length (mm)	Stripping length [mm] (Ferrules used)	Recommended ferrules		
(mm²)	(AWG)			Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	10	AI0,25-8	H0.25/12	216-301
		10	12	AI0,25-10	---	---
0.34	22	8	10	AI0,34-8	H0.34/12	216-302
		10	12	AI0,34-10	---	---
0.5	20	8	10	AI0,5-8	H0.5/14	216-201
		10	12	AI0,5-10	H0.5/16	216-241
0.75	18	8	10	AI0,75-8	H0.75/14	216-202
		10	12	AI0,75-10	H0.75/16	216-242
1/1.25	18/17	8	10	AI1-8	H1.0/14	216-203
		10	12	AI1-10	H1.0/16	216-243
1.25/1.5	17/16	8	10	AI1,5-8	H1.5/14	216-204
		10	12	AI1,5-10	H1.5/16	216-244
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

- Note:**
1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
  2. Make sure that the ferrule processing dimensions conform to the following figures.

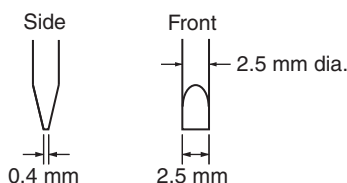


### Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires.

Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2015/Dec.

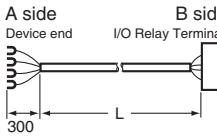
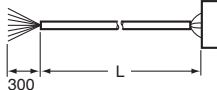
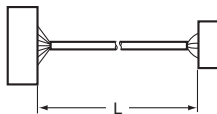
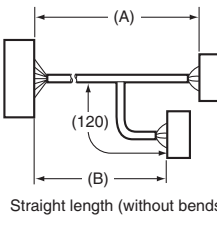
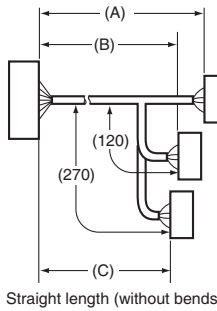
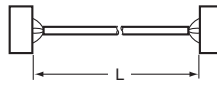


Model	Manufacturer
ESD 0,40×2,5	Wera
SZS 0,4×2,5 SZF 0-0,4×2,5 *	Phoenix Contact
0.4×2.5×75 302	Wiha
AEF.2,5×75	Facom
210-719	Wago
SDI 0.4×2.5×75	Weidmuller

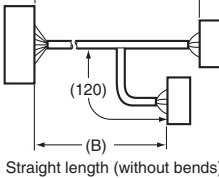
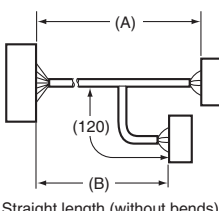
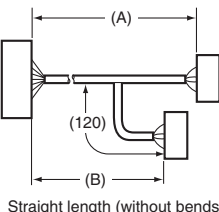
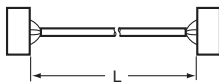
\* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4 × 2,5 (manufactured by Phoenix Contact).

## 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	
	Cables with Loose Wires XW2Z-RA□C	16 I/O points		2,000		XW2Z-RA200C	
			5,000		XW2Z-RA500C		
Fujitsu/Otax 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/Otax 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/Otax 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	



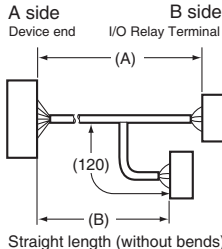
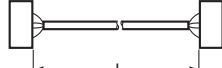
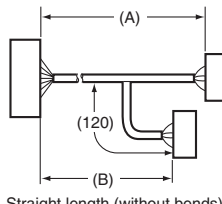
Type	Name	I/O Classification	Appearance	Cable length L (mm)		Models
MIL connectors (40 pins)	Cables with Connectors (1:2)  XW2Z-RO□-□-D1, XW2Z-RI□-□-D1, XW2Z-RI□-□-D2, XW2Z-RM□-□-D1 *1, XW2Z-RM□-□-D2 *1	32 I/O points		(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-RO75-50-D1
				(A) 1,000	(B) 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	
		16 inputs and 16 outputs (32 I/O points)		(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			
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-RI100C-75-MN
		32 output points		(A) 1,500	(B) 1,250	XW2Z-RI150C-125-MN
				(A) 2,000	(B) 1,750	XW2Z-RI200C-175-MN
				(A) 3,000	(B) 2,750	XW2Z-RI300C-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	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.

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

\*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 31.

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		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			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					

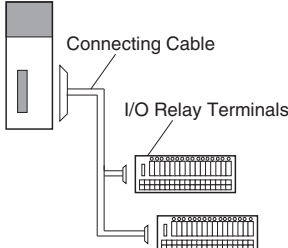
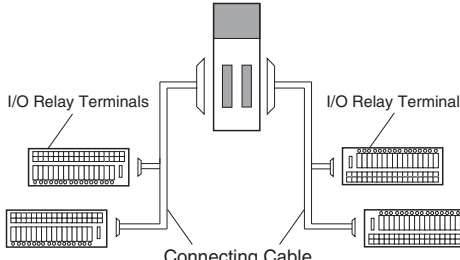
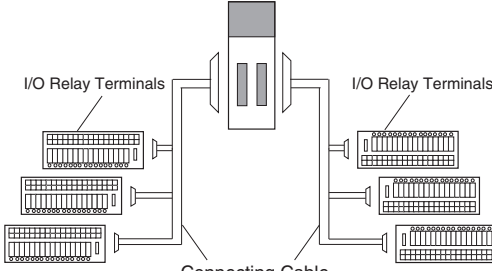
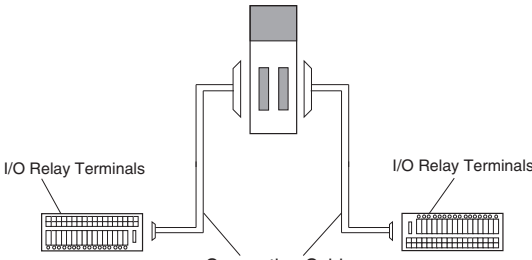
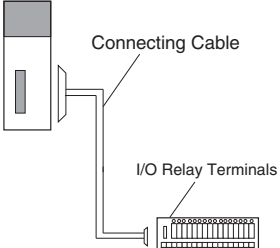
**Note:** 1. Refer to Combinations of Connections starting on the next page.

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>Diagram A shows a single I/O Relay Terminal connected to a Connecting Cable. The cable is shown as a vertical line with a connector at the top and a terminal block at the bottom.</p>
B	 <p>Diagram B shows two I/O Relay Terminals connected to a Connecting Cable. The cable is shown as a vertical line with two connectors at the top and two terminal blocks at the bottom.</p>
D	 <p>Diagram D shows four I/O Relay Terminals connected to a Connecting Cable. The cable is shown as a vertical line with four connectors at the top and four terminal blocks at the bottom.</p>
E	 <p>Diagram E shows two I/O Relay Terminals connected to a Connecting Cable. The cable is shown as a vertical line with two connectors at the top and two terminal blocks at the bottom.</p>
F	 <p>Diagram F shows one I/O Relay Terminal connected to a Connecting Cable. The cable is shown as a vertical line with one connector at the top and one terminal block at the bottom.</p>

## List of Combinations with the OMRON PLC NX Series

NX I/O Units				Conne ction pattern	XW2Z-R Cables			G70V I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Specifications	Model *1	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 #2	G70V-SID16P(-1)(-C16)	1
32 inputs	NX-ID6142-5	1 MIL connector	NPN or PNP	A	1:2	XW2Z-RO□-□-D1	1		G70V-SID16P(-1)(-C16)	2
	NX-ID6142-6	1 Fujitsu/Otax connector	NPN or PNP			XW2Z-RI□C-□	1		G70V-SID16P(-1)(-C16)	2
Output Units										
16 outputs	NX-OD5121-5	1 MIL connector	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	1
	NX-OD5256-5	1 MIL connector	PNP			XW2Z-RO□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1
32 outputs	NX-OD6121-5	1 MIL connector	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2
	NX-OD6256-5	1 MIL connector	PNP			---	---	PNP outputs	---	---
	NX-OD6121-6	1 Fujitsu/Otax connector	NPN			XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
Mixed I/O Units										
16 inputs and 16 outputs	NX-MD6121-6	2 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)	Outputs: NPN Inputs: NPN or PNP	E	1:1	XW2Z-R□C	2	Inputs #2	G70V-SID16P(-1)(-C16)	1
								NPN outputs	G70V-SOC16P(-C4)	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 #2	G70V-SID16P(-1)(-C16)	1
						XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	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	Inputs #2	G70V-SID16P(-1)(-C16)	1
						XW2Z-RI□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1

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

\*2. 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			G70V I/O Relay Terminals		
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/Otax connector	NPN	A	1:2	XW2Z-RI□C-□	1	Inputs *3	G70V-SID16P(-1)(-C16)	2
	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/Otax connectors (2, 32-point connectors)	NPN	B		XW2Z-RI□C-□	2		G70V-SID16P(-1)(-C16)	4
	CJ1W-ID262	2 MIL connectors (2, 32-point connectors)	NPN			XW2Z-RO□□-□D1	2			
Transistor Output Units										
32 outputs	CJ1W-OD231	1 Fujitsu/Otax connector	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	CJ1W-OD233	1 MIL connector	Sinking (NPN)			XW2Z-RO□□-□D1	1			
	CJ1W-OD232	1 MIL connector	Sourcing (PNP)			XW2Z-RO□□-□D1	1	PNP outputs	G70V-SOC16P-1(-C4)	2
	CJ1W-OD234	1 MIL connector	Sinking (NPN)			XW2Z-RO□□-□D1	1	NPN outputs	G70V-SOC16P(-C4)	2
64 outputs	CJ1W-OD261	2 Fujitsu/Otax connectors (2, 32-point connectors)	Sinking (NPN)	B		XW2Z-RO□C-□	2	NPN outputs	G70V-SOC16P(-C4)	4
	CJ1W-OD262	2 MIL connectors (2, 32-point connectors)	Sourcing (PNP)			XW2Z-RO□□-□D1	2	PNP outputs	G70V-SOC16P-1(-C4)	4
	CJ1W-OD263	2 MIL connectors (2, 32-point connectors)	Sinking (NPN)			XW2Z-RO□□-□D1	2	NPN outputs	G70V-SOC16P(-C4)	4
DC Input/Transistor Output Units										
16 inputs and 16 outputs	CJ1W-MD231	2 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)	E	1:1	XW2Z-R□C	2	Inputs *3	G70V-SID16P(-1)(-C16)	1
			NPN outputs					G70V-SOC16P(-C4)	1	
	CJ1W-MD233	2 MIL connectors (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)			XW2Z-RO□C	1	Inputs *3	G70V-SID16P(-1)(-C16)	1
			NPN outputs			G70V-SOC16P(-C4)	1			
	CJ1W-MD232	2 MIL connectors (1 for 16 inputs and 1 for 16 outputs)	Sourcing (PNP)			XW2Z-RO□C	1	Inputs *3	G70V-SID16P(-1)(-C16)	1
32 inputs and 32 outputs	CJ1W-MD261	2 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)	B	1:2	XW2Z-RI□C-□	1	Inputs *3	G70V-SID16P(-1)(-C16)	2
			NPN outputs			G70V-SOC16P(-C4)	2			
	CJ1W-MD263	2 MIL connectors (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)			XW2Z-RO□□-□D1	1	Inputs *3	G70V-SID16P(-1)(-C16)	2
			NPN outputs			G70V-SOC16P(-C4)	2			

\*1. For details on the types of connectors, refer to pages 24 and 25.

\*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			G70V I/O Relay Terminals		
I/O capacity	Model	External connectors *1	Polarity		Specifications	Model *2	Quantity required	Specifications	Model	Quantity required
DC Input Units										
32 inputs	CS1W-ID231	1 Fujitsu/Otax connector	NPN	A	1:2	XW2Z-RI□C-□	1	Inputs *3	G70V-SID16P(-1)(-C16)	2
64 inputs	CS1W-ID261	2 Fujitsu/Otax connectors (2, 32-point connectors)	NPN	B		XW2Z-RI□C-□	2		G70V-SID16P(-1)(-C16)	4
96 inputs	CS1W-ID291	2 Fujitsu/Otax connectors (2, 48-point connectors)	NPN	D	1:3	XW2Z-R□C-□-□	2		G70V-SID16P(-1)(-C16)	6
Transistor Output Units										
32 outputs	CS1W-OD231	1 Fujitsu/Otax connector	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	CS1W-OD232	1 Fujitsu/Otax connector	Sourcing (PNP)			XW2Z-RO□C-□	1	PNP outputs	G70V-SOC16P-1(-C4)	2
64 outputs	CS1W-OD261	2 Fujitsu/Otax connectors (2, 32-point connectors)	Sinking (NPN)	B		XW2Z-RO□C-□	2	NPN outputs	G70V-SOC16P(-C4)	4
	CS1W-OD262	2 Fujitsu/Otax connectors (2, 32-point connectors)	Sourcing (PNP)			XW2Z-RO□C-□	2	PNP outputs	G70V-SOC16P-1(-C4)	4
96 outputs	CS1W-OD291	2 Fujitsu/Otax connectors (2, 48-point connectors)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	NPN outputs	G70V-SOC16P(-C4)	6
DC Input/Transistor Output Units										
32 inputs and 32 outputs	CS1W-MD261	2 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)	B	1:2	XW2Z-RI□C-□	1	Inputs *3	G70V-SID16P(-1)(-C16)	2
			Sourcing (PNP)			XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	CS1W-MD262	2 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)				Sourcing (PNP)	XW2Z-RI□C-□	1	Inputs *3	G70V-SID16P(-1)(-C16)
			XW2Z-RO□C-□				1	PNP outputs	G70V-SOC16P-1(-C4)	2
48 inputs and 48 outputs	CS1W-MD291	2 Fujitsu/Otax connectors (1 for 48 inputs and 1 for 48 outputs)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	Inputs *3	G70V-SID16P(-1)(-C16)	3
			Sourcing (PNP)					NPN outputs	G70V-SOC16P(-C4)	3
	CS1W-MD292	2 Fujitsu/Otax connectors (1 for 48 inputs and 1 for 48 outputs)				Sourcing (PNP)	XW2Z-R□C-□-□	1	Inputs *3	G70V-SID16P(-1)(-C16)
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\*1. For details on the types of connectors, refer to pages 24 and 25.

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

\*3. 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				Conne ction pattern	XW2Z-R Cables			G70V I/O Relay Terminals							
I/O capacity	Model	External connectors	Polarity		Specifications	Model *1	Quantity required	Specifications	Model	Quantity required					
Input Units															
32 inputs	LX41C4	1 Fujitsu/Otax connector	NPN or PNP	A	1:2	XW2Z-R□□□□ -□□MN	1	Inputs *2	G70V-SID16P(-1)(-C16)	2					
	QX41/QX41-S1/ QX41-S2														
	QX71														
	RX41C4														
64 inputs	LX42C4	2 Fujitsu/Otax connectors	NPN or PNP	B	1:2	XW2Z-R□□□□ -□□MN	2	Inputs *2	G70V-SID16P(-1)(-C16)	4					
	QX42/QX42-S1														
	QX82/QX82-S1														
	RX42C4														
Output Units															
32 outputs	LY41NT1P	1 Fujitsu/Otax connector	NPN	A	1:2	XW2Z-RO□□□□ -□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2					
	QY41P														
	QY71														
	RY41NT2P	1 Fujitsu/Otax connector	PNP			XW2Z-RO□□□□ -□□MN	1	PNP outputs	G70V-SOC16P-1(-C4)	2					
	LY41PT1P														
	RY41PT1P														
RY41PT2H	2 Fujitsu/Otax connectors	NPN	B	XW2Z-RO□□□□ -□□MN	2	NPN outputs	G70V-SOC16P(-C4)	4							
LY42NT1P															
RY42NT2P															
QY42P															
LY42PT1P									2 Fujitsu/Otax connectors	PNP	XW2Z-RO□□□□ -□□MN	2	PNP outputs	G70V-SOC16P-1(-C4)	4
RY42PT1P															
QY82P															
Mixed I/O Units															
32 inputs and 32 outputs	RH42C4NT2P (Input side)	2 Fujitsu/Otax connectors	NPN or PNP	B	1:2	XW2Z-R□□□□ -□□MN	1	Inputs *2	G70V-SID16P(-1)(-C16)	2					
	RH42C4NT2P (Output side)		NPN			XW2Z-RO□□□□ -□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2					
	QH42P (Input side)	2 Fujitsu/Otax connectors	NPN or PNP			XW2Z-R□□□□ -□□MN	1	Inputs *2	G70V-SID16P(-1)(-C16)	2					
	QH42P (Output side)		NPN			XW2Z-RO□□□□ -□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2					
	QX41Y41P (Input side)	2 Fujitsu/Otax connectors	NPN or PNP			XW2Z-R□□□□ -□□MN	1	Inputs *2	G70V-SID16P(-1)(-C16)	2					
	QX41Y41P (Output side)		NPN			XW2Z-RO□□□□ -□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2					
	LH42C4NT1P (Input side)	2 Fujitsu/Otax connectors	NPN or PNP			XW2Z-R□□□□ -□□MN	1	Inputs *2	G70V-SID16P(-1)(-C16)	2					
	LH42C4NT1P (Output side)		NPN			XW2Z-RO□□□□ -□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2					
	LH42C4PT1P (Input side)	2 Fujitsu/Otax connectors	NPN or PNP			XW2Z-R□□□□ -□□MN	1	Inputs *2	G70V-SID16P(-1)(-C16)	2					
	LH42C4PT1P (Output side)		PNP			XW2Z-RO□□□□ -□□MN	1	PNP outputs	G70V-SOC16P-1(-C4)	2					

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

\*1. The box □ is replaced by the cable length. For details on the types, refer to page 25.

\*2. Either NPN inputs or PNP inputs can be used.

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**OMRON Corporation Industrial Automation Company**

**Kyoto, JAPAN**

**Contact : [www.ia.omron.com](http://www.ia.omron.com)**

***Regional Headquarters***

**OMRON EUROPE B.V.**

Wegalaan 67-69, 2132 JD Hoofddorp  
The Netherlands  
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

**OMRON ASIA PACIFIC PTE. LTD.**

438B Alexandra Road, #08-01/02 Alexandra  
Technopark, Singapore 119968  
Tel: (65) 6835-3011 Fax: (65) 6835-3011

**OMRON ELECTRONICS LLC**

2895 Greenspoint Parkway, Suite 200  
Hoffman Estates, IL 60169 U.S.A.  
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

**OMRON (CHINA) CO., LTD.**

Room 2211, Bank of China Tower,  
200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China  
Tel: (86) 21-6023-0333 Fax: (86) 21-5037-2388

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