OMRON

I/O Relay Terminal G70V

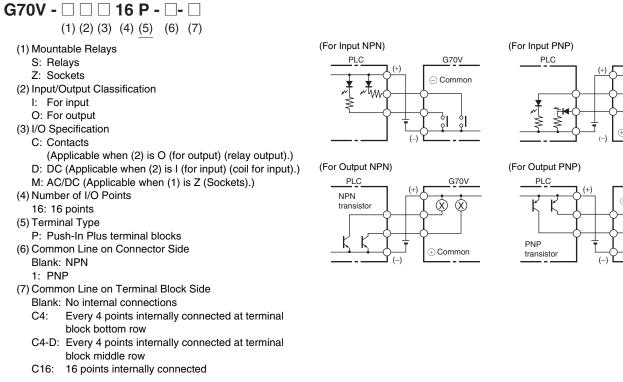
I/O Relay Terminals with 16 Points and **Push-In Plus Terminal Blocks to Downsize Control Panels Reduce** Wiring Time

- Wiring time is reduced by 60% compared to traditional screw terminals.
- I/O Relay Terminals with 16 points accept G2RV Slim I/O Relays or G3RV SSRs.
- · Work is reduced even 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.
- DIN Track or screw mounting.
- New models provide internal common connections between I/O terminals to further reduce wiring work. (input models: 16 point/common; output models: 4 points/common)

* According to OMRON actual measurement data from November 2015.

Refer to Safety Precautions on page 15.

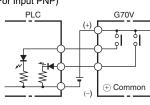
Model Number Legend

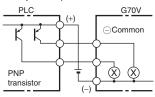






For the most recent information on models that have been certified for safety standards, refer to your OMRON website.





G70V

Ordering Information

I/O Relay Terminals

Terminals	Classification	Points	Common Line	Rated	Model	
			Terminal Block Side	Connector Side	voltage	woder
Push-In Plus	Input *1		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
terminal blocks	16 Output *2	10	No internal connections	NPN (+ common)		G70V-SOC16P
		Output *2		PNP (– common)		G70V-SOC16P-1
			Every 4 points internally connected	NPN (+ common)		G70V-SOC16P-C4
			at terminal block bottom row	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 VO Delay Terminal	Classification	Common Li	ne	Model
Applicable I/O Relay Terminal	Classification	Terminal Block Side	Connector Side	woder
G70V-SID16P		No internal connections	NPN (– common)	G70V-ZID16P
G70V-SID16P-1	- 	No internal connections	PNP (+ common)	G70V-ZID16P-1
G70V-SID16P-C16	- Input	10 mainta internally as martial	NPN (– common)	G70V-ZID16P-C16
G70V-SID16P-1-C16		16 points internally connected	PNP (+ common)	G70V-ZID16P-1-C16
G70V-SOC16P		No internal connections	NPN (+ common)	G70V-ZOM16P
G70V-SOC16P-1		No internal connections	PNP (– common)	G70V-ZOM16P-1
G70V-SOC16P-C4	Output	Every 4 points internally connected	NPN (+ common)	G70V-ZOM16P-C4
G70V-SOC16P-1-C4	Output	at terminal block bottom row	PNP (– common)	G70V-ZOM16P-1-C4
*		Every 4 points internally connected at terminal block middle row	PNP (– common)	G70V-ZOM16P-1-C4-D

Note: Relays are not mounted to the G70V-ZID/ZOM16P(-1) 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).

Accessories (Order Separately)

Mountable Relays

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

Note: To use Slim I/O SSRs, either remove the Slim I/O Relays to mount them or order a I/O Terminal Sockets and 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 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 17 for details.

Labels

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

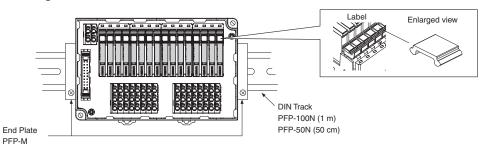
Accessories for DIN Track Mounting

Appearance	Name		Model	Minimum order (quantity)	
	DIN Tracks	1 m	PFP-100N	1	
	DIN Hacks	0.5 m	PFP-50N	·	
Comments of the second s	End Plate		PFP-M	10	
	Spacer		PFP-S		

* These products must be ordered in sets of 10.

Refer to your OMRON website for details on the PFP-D.

Mounting Example Using the Accessories Mounting to DIN Track



G70V

Specifications

Coil Ratings (Common to Input/Output per Relay)

Item Rated voltage (V)	Rated current (mA)	Coil resistance (Ω)	Must operate of rated voltage	Must release of rated voltage	Maximum voltage of rated voltage	Power consumption (mW)
24 VDC	13.3	1575	80% max.	10% min.	110%	Approx. 280
Note: 1. The rated current and co	Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±15% for coil resistance.					

2. The operating characteristics are measured at a coil temperature of 23°C.

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.
 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		
Item	Resistive load (cos¢=1)	Resistive load (cosø=1)	Inductive load (cos¢=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 voltage30 VAC, 36 VDC250 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)		
m	SPST-NO × 16	SPDT×16		
terial	Ag alloy + Au plating	Ag alloy		
istance * 1	150 mΩ max.			
te time * 2	20 ms max.			
e * 2	40 ms max.			
Mechanical limit	18,000 operations/h			
At rated load	1,800 operations/h (under rated load)			
esistance	100 MΩ min.			
trength	Between coil and contacts: 2,500 VAC for 1 min			
sistance	100 m/s ²			
tance	100 m/s ² , 3 times each in 6 directions along 3 axes			
inity	Noise level: 1.5 kV; pulse width: 100 ns to 1 μs			
erating e	-40 to 55°C (with no icing or condensation)			
erating humidity	35% to 85%			
Power supply	Green			
I/O	Yellow			
	Approx. 350 g	Approx. 370 g		
	n terial istance *1 te time *2 e *2 Mechanical limit At rated load esistance trength sistance tance nity erating erating humidity Power supply	(Input, DC coil)mSPST-NO × 16Ag alloy + Au platingistance *1150 mΩ max.te time *220 ms max.e *240 ms max.Mechanical limit18,000 operations/hAt rated load1,800 operations/h (under rated load)esistance100 MΩ min.erengthBetween coil and contacts: 2,500 VAC for 1 minsistance100 m/s²tance100 m/s², 3 times each in 6 directions along 3 axesnityNoise level: 1.5 kV; pulse width: 100 ns to 1 μserating-40 to 55°C (with no icing or condensation)erating humidity35% to 85%Power supplyGreenI/OYellow		

Note: The above values are initial values.

*1. Measurement: 1 A at 5 VDC.

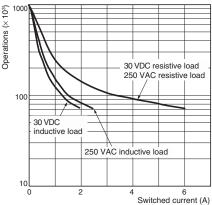
*2. Ambient temperature: 23°C.

Applicable Standards

• UL 61010-2-201, CAN/CSA-C22.2 No.61010-2-201, TÜV (EN 61810-1)

Engineering Data (Reference Value)

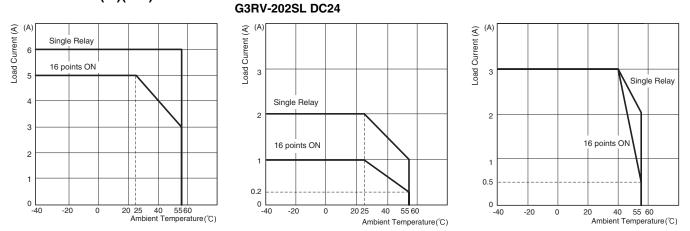
Endurance Curve (NO Contacts) G70V-SOC16P(-1)(-C4)



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.

G3RV-D03 DC24

Load Current vs. Ambient Temperature G70V-SOC16P(-1)(-C4) G3RV-202S DC24

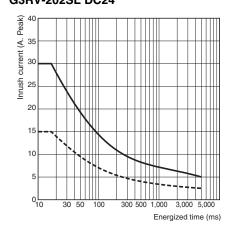


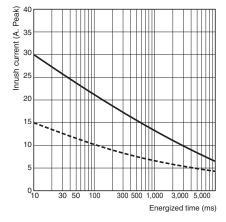
Inrush Current Resistance: Non-repetitive

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



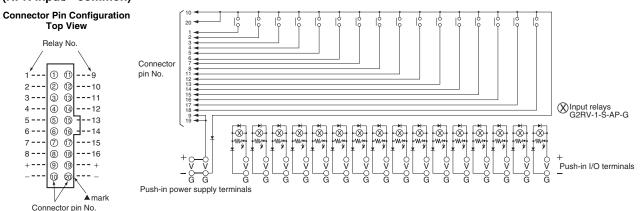


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Internal Circuits

G70V-SID16P

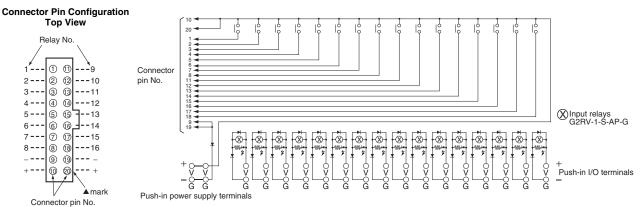
(NPN input/- common)



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

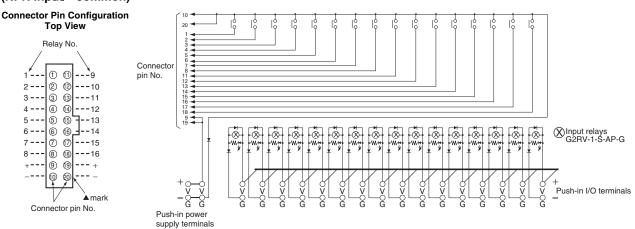
Terminal name	Description		
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)		
G (push-in power supply terminals)			
V (push-in I/O terminals)	Polov drivo coil terminale (24 VDC)		
G (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)		

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



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)	Polov drive spil terminale (24 V/DC)	
G (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)	

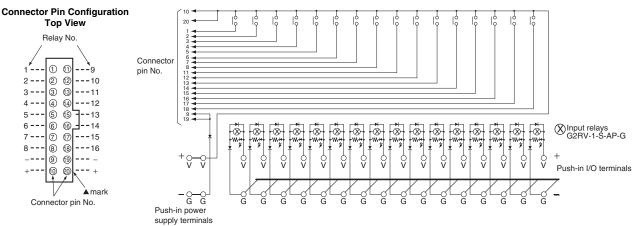
G70V-SID16P-C16 (NPN input/– common)



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)	Polov drive coil terminale (24 V/DC)	
G (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)	

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



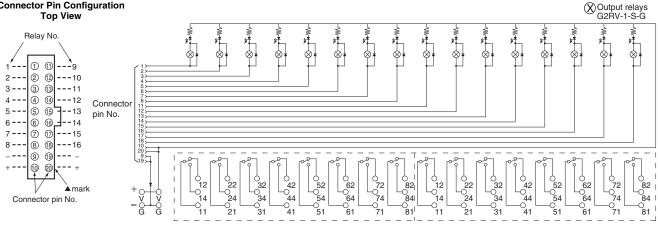
Terminal name	Description	
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)	
G (push-in power supply terminals)		
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)	
G (push-in I/O terminals)		

G70V-SOC16P

(NPN output/+ common)

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

Connector Pin Configuration



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

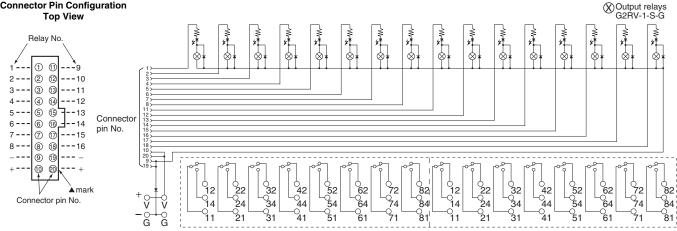
Terminal name	Description	
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)	
G (push-in power supply terminals)		
11 to 81 (push-in I/O terminal common terminals)		
12 to 82 (push-in I/O terminal NC terminals)	Relay contact terminals	
14 to 84 (push-in I/O terminal NO terminals)		

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 Configuration

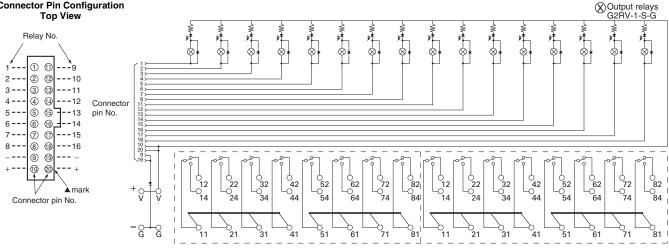


Terminal name	Description	
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)	
G (push-in power supply terminals)		
11 to 81 (push-in I/O terminal common terminals)		
12 to 82 (push-in I/O terminal NC terminals)	Relay contact terminals	
14 to 84 (push-in I/O terminal NO terminals)		

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 Configuration



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

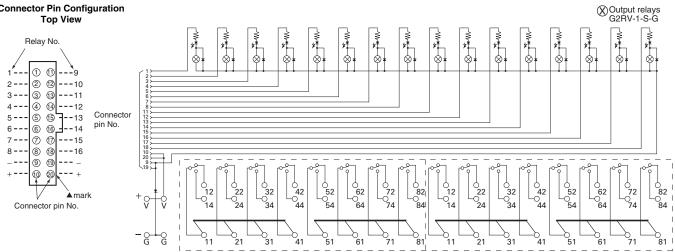
Terminal name	Description	
V (push-in power supply terminals)	- Unit power supply terminals (24 VDC)	
G (push-in power supply terminals)		
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals	
12 to 82 (push-in I/O terminal NC terminals)		
14 to 84 (push-in I/O terminal NO terminals)		

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.

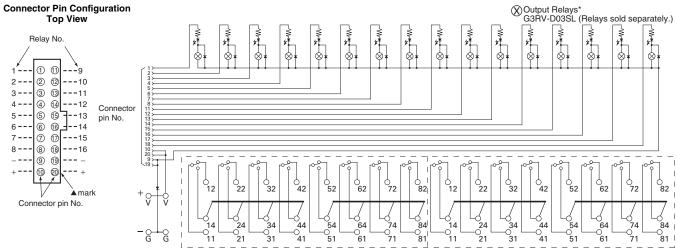
Connector Pin Configuration



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

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

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



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 +)		
12 to 82 (push-in I/O terminal Open terminal)	SSR contact terminals	
14 to 84 (push-in I/O terminal SSR output terminal -)		

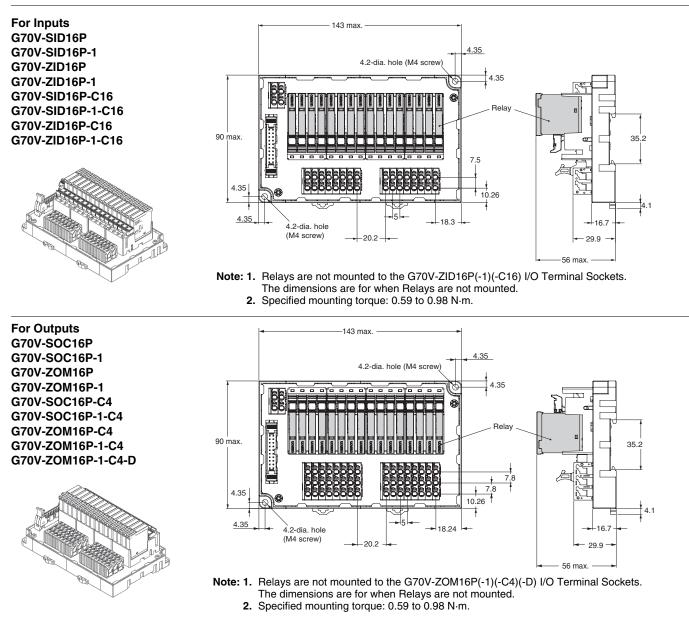
* The G70V-ZOM16P-1-C4-D does not come with SSRs. Use Slim I/O SSRs (for DC: G3RV-D03SL).

G70V

Dimensions

(Unit: mm)

I/O Relay Terminals and I/O Terminal Sockets

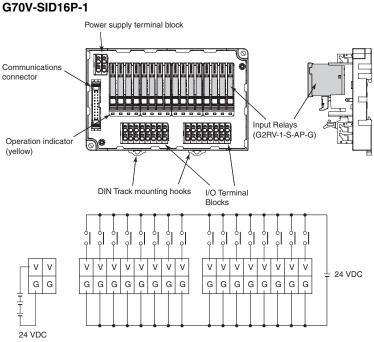


G70V

Terminal Arrangement/Internal Connection

For Inputs G70V-SID16P

G70V-SID16



Operation

indicator (yellow)

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I/O Terminal Blocks

 12
 22
 32
 42
 52
 62
 72
 82

 14
 24
 34
 44
 54
 64
 74
 84

11 21 31 41 51 61 71 81

Output Relays (G2RV-1-S-G) 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.

 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.

AC (DC power supply is also possible.)



GG

vv

For Outputs G70V-SOC16P

G70V-SOC16P-1

Communications connector

Power supply terminal block

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DIN Track mounting hooks

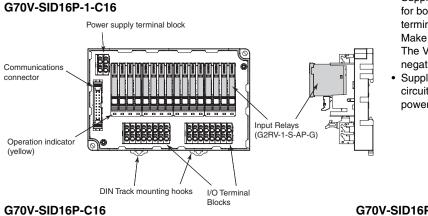
(1)(1)(2)(3)(4)(5)(6)(7)

 12
 22
 32
 42
 52
 62
 72
 82

 14
 24
 34
 44
 54
 64
 74
 84

11 21 31 41 51 61 71 81

For Inputs G70V-SID16P-C16

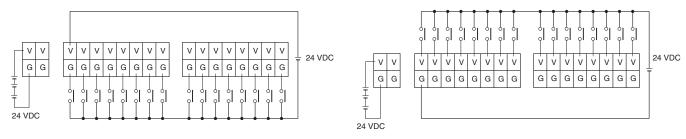


· Supply a power supply that meets the voltage specifications for both the Relays and I/O Relay Terminal to the V and G terminals.

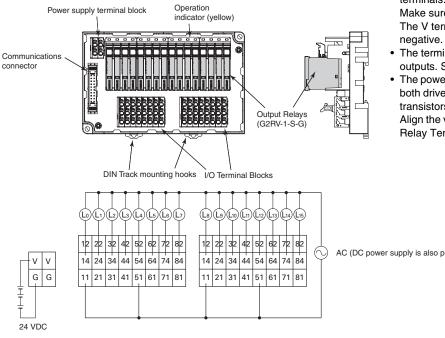
Make sure that the polarity is correct. The V terminals are positive and the G terminals are negative.

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-1-C16



For Outputs G70V-SOC16P-C4 G70V-SOC16P-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.

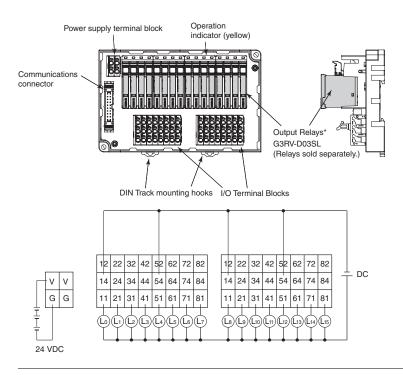
Make sure that the polarity is correct.

The V terminals are positive and the G terminals are

- 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.

AC (DC power supply is also possible.)

For Outputs 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).

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/.

Warning Indications

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

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.
- · 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 (Ferrules not used)		
0.25 to 1.5mm ² /AWG24 to 16	8 mm		

• 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

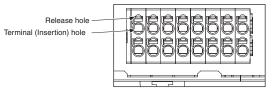
- Select a load within the rated values. Not doing so may result in malfunction, failure, or burning.
- The I/O Relay Terminal may occasionally rupture if short-circuit current flows. As protection against accidents due to shortcircuiting, be sure to install protective devices, such as fuses and no-fuse 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.

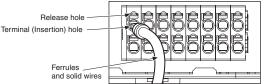
Push-In Plus Terminal Blocks

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



Connecting Wires with Ferrules and Solid Wires

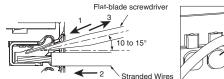
Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.

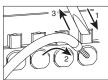


· If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

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





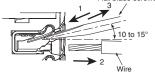
Checking Connections

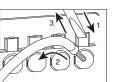
- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product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

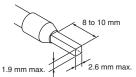




3. Recommended Ferrules and Crimp Tools Recommended ferrules

Applicable wire		rerruie	Stripping length	Recommended ferrules		
(mm²)	(AWG)	Conductor length (mm)	[mm] (Ferrules used)	Phoenix Contact product	Weidmuller product	Wago product
0.25		8	10	AI0,25-8	H0.25/12	FE-0.25-8N-YE
0.25	24	10	12	AI0,25-10		
0.34	00	8	10	AI0,34-8	H0.34/12	FE-0.34-8N-TQ
0.34	0.34 22	10	12	AI0,34-10		
0.5		8	10	AI0,5-8	H0.5/14	FE-0.5-8N-WH
0.5	20	10	12	AI0,5-10	H0.5/16	FE-0.5-10N-WH
0.75	10	8	10	AI0,75-8	H0.75/14	FE-0.75-8N-GY
0.75	18	10	12	AI0,75-10	H0.75/16	FE-0.75-10N-GY
1/1.25	18/17	8	10	AI1-8	H1.0/14	FE-1.0-8N-RD
1/1.25	16/17	10	12	Al1-10	H1.0/16	FE-1.0-10N-RD
1.25/1.5 17/1	17/16	8	10	AI1,5-8	H1.5/14	FE-1.5-8N-BK
	17/10	10	12	AI1,5-10	H1.5/16	FE-1.5-10N-BK
Recommended crimp tool			CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

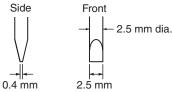
- Note: 1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
 - **2.** Make sure that the ferrule processing dimensions conform to the following figures.



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
ESD0.40×2.5	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

Туре	Name	I/O Classification	Appearance	Cable leng	th L (mm)	Models								
				1,0	00	XW2Z-RY100C								
	Cables with Loose Wires		A side B side	1,5	00	XW2Z-RY150C								
	and Crimp Terminals	16 I/O points	Device end I/O Relay Terminal	2,0	00	XW2Z-RY200C								
	XW2Z-RY□C			3,0	00	XW2Z-RY300C								
Various devices			←→ ←─── L ───→ 300	5,0	00	XW2Z-RY500C								
	Cables with Loose Wires	16 I/O points		2,0	00	XW2Z-RA200C								
	XW2Z-RA□C			5,0	00	XW2Z-RA500C								
				1,0	00	XW2Z-R100C								
	Cables with Connectors			1,5	00	XW2Z-R150C								
Fujitsu connectors (24 pins)	(1:1)	16 I/O points		2,0	00	XW2Z-R200C								
	XW2Z-R□C			3,0	00	XW2Z-R300C								
				5,0	00	XW2Z-R500C								
				(A) 1,000	(B) 750	XW2Z-RI100C-75								
		32 input points		(A) 1,500	(B) 1,250	XW2Z-RI150C-125								
			(A) →	(A) 2,000	(B) 1,750	XW2Z-RI200C-175								
Fujitsu connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RI C- XW2Z-ROC-			(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								
			Straight length (without bends)	(A) 2,000	(B) 1,750	XW2Z-RO200C-175								
										Straight length (without benus)	(A) 3,000	(B) 2,750	XW2Z-RO300C-275	
				(A) 5,000	(B) 4,750	XW2Z-RO500C-475								
				(A)	(A) (B) 1,500 1,25	(C) 50 1,000	XW2Z-R150C-125-100							
Fujitsu connectors (56 pins)	Cables with Connectors (1:3) XW2Z-R□C-□-□	48 I/O points	48 I/O points	48 I/O points	48 I/O points	48 I/O points	48 I/O points	48 I/O points	48 I/O points	48 I/O points		(A) (B) 2,000 1,75	(C) 50 1,500	XW2Z-R200C-175-150
			CC) CC) Straight length (without bends)	(A) (B) 3,000 2,75	(C) 50 2,500	XW2Z-R300C-275-250								
	Cables with Connectors			25	0	XW2Z-RI25C								
	(1:1)			50	0	XW2Z-RI50C								
MIL connectors (20 pins)	XW2Z-RI□C	16 I/O points		25	0	XW2Z-RO25C								
	XW2Z-RO□C			50	0	XW2Z-RO50C								

					gth L (mm)	Models
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-R075-50-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
		32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
			A side Daida	(A) 750	(B) 500	XW2Z-RI75-50-D1
			A side B side Device end I/O Relay Terminal	(A) 1,000	(B) 750	XW2Z-RI100-75-D1
	Cables with Connectors (1:2)		← (A) →	(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
				(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
	XW2Z-RO□-□-D1, XW2Z-RI□-□-D1,			(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
	XW2Z-RI□-□-D2, XW2Z-RM□-□-D1*,			(A) 5,000	(B) 4,750	XW2Z-RI500-475-D1
	XW2Z-RM□-□-D2*			(A) 500	(B) 250	XW2Z-RI50-25-D2
			Straight length (without bends)	(A) 750	(B) 500	XW2Z-RI75-50-D2
			oliaight iongan (without bondo)	(A) 500	(B) 250	XW2Z-RM50-25-D1
				(A) 750	(B) 500	XW2Z-RM75-50-D1
				(A) 1,000	(B) 750	XW2Z-RM100-75-D1
		16 inputs and		(A) 1,500	(B) 1,250	XW2Z-RM150-125-D1
		16 outputs		(A) 2,000	(B) 1,750	XW2Z-RM200-175-D1
		(32 I/O points)		(A) 3,000	(B) 2,750	XW2Z-RM300-275-D1
				(A) 5,000	(B) 4,750	XW2Z-RM500-475-D1
				(A) 500	(B) 250	XW2Z-RM50-25-D2
				(A) 750	(B) 500	XW2Z-RM75-50-D2
				(A) 1,000	(B) 750	XW2Z-RI100C-75-MN
litsubishi Electric PLCs with	Mitsubishi Electric PLC Connecting Cables XW2Z-RICCMN XW2Z-ROCCMN	32 input points		(A) 1,500	(B) 1,250	XW2Z-RI150C-125-MN
2-point connectors (1:2)				(A) 2,000	(B) 1,750	XW2Z-RI200C-175-MN
				(A) 3,000	(B) 2,750	XW2Z-RI300C-275-MN
or inputs: AX42, A1SX41, A1SX42, QX41, and QX42		32 output points		(A) 1,000	(B) 750	XW2Z-RO100C-75-MN
For outputs: AY42, A1SY41,				(A) 1,500	(B) 1,250	XW2Z-RO150C-125-MN
A1SY42, QY41P, and QY42P				(A) 2,000	(B) 1,750	XW2Z-RO200C-175-MN
			Straight length (without bends)		. , .	
				(A) 3,000	(B) 2,750	XW2Z-RO300C-275-MN
					00	XW2Z-R050C-SCH-A
			(A) →	,	000	XW2Z-R100C-SCH-A
Schneider Electric PLCs with		32 input points			000	XW2Z-R200C-SCH-A
2-point connectors (1:2)					000	XW2Z-R300C-SCH-A
opplicable models: For inputs:					000	XW2Z-R500C-SCH-A
40 DDI 353 00			(120)		00	XW2Z-R050C-SCH-B
or outputs: 40 DDO 353 00			(B) →		000	XW2Z-R100C-SCH-B
		32 output points	Straight length (without bends)		000	XW2Z-R200C-SCH-B
	Schneider Electric PLC				000	XW2Z-R300C-SCH-B
	Connecting Cables				000	XW2Z-R500C-SCH-B
	XW2Z-R C-SCH-				00	XW2Z-R050C-SCH-C
		10			000	XW2Z-R100C-SCH-C
chneider Electric PLCs with		16 input points			000	XW2Z-R200C-SCH-C
6-point connectors (1:1)				,	000	XW2Z-R300C-SCH-C
pplicable models: or inputs:					000	XW2Z-R500C-SCH-C
3MX DDI 1602					00	XW2Z-R050C-SCH-D
and a sub-a sub-a s					000	XW2Z-R100C-SCH-D
or outputs:					100	
MX DDO 1602		16 output points		2,0	000	XW2Z-R200C-SCH-D XW2Z-R300C-SCH-D

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

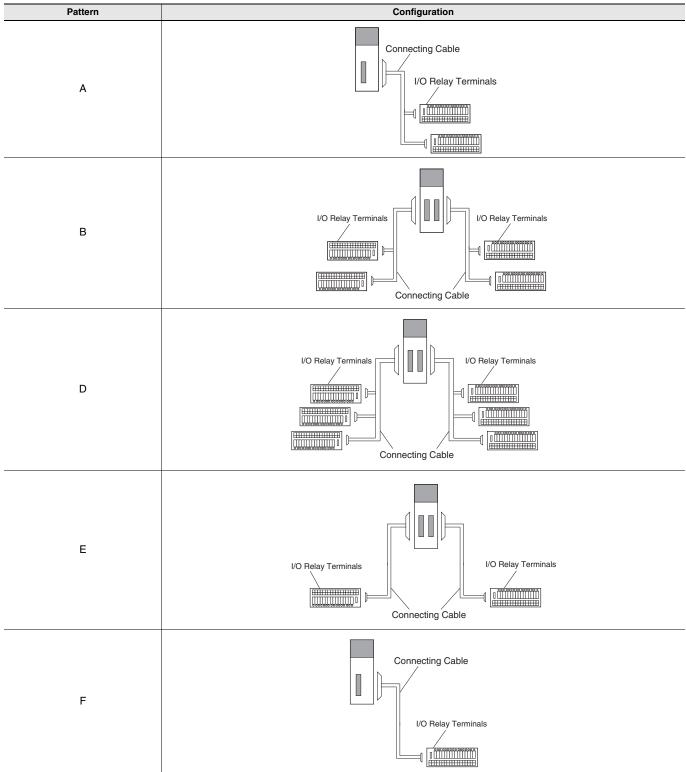
Туре	Name	I/O Classification	Appearance	Cable length L (mm)	Models
				500	XW2Z-R050C-SIM-A
			A side B side	1,000	XW2Z-R100C-SIM-A
Siemens PLCs with		32 input points	Device end I/O Relay Terminal	2,000	XW2Z-R200C-SIM-A
32-point connectors (1:2)			(A)	3,000	XW2Z-R300C-SIM-A
Applicable models:				5,000	XW2Z-R500C-SIM-A
For inputs: 6ES7 321-1BL00-0AA0				500	XW2Z-R050C-SIM-B
For outputs:			(120)	1,000	XW2Z-R100C-SIM-B
6ES7 322-1BL00-0AA0		32 output points	(B)	2,000	XW2Z-R200C-SIM-B
			Straight length (without bends)	3,000	XW2Z-R300C-SIM-B
				5,000	XW2Z-R500C-SIM-B
Siemens PLCs with				500	XW2Z-R050C-SIM-C
16-point connectors (1:1)	Siemens PLC Connecting		пП	1,000	XW2Z-R100C-SIM-C
Applicable models:	Cables	16 input points		2,000	XW2Z-R200C-SIM-C
For inputs: 6ES7 321-1BH02-0AA0	XW2Z-R C-SIM-		← L>	3,000	XW2Z-R300C-SIM-C
6ES7 321-1BH02-0AA0				5,000	XW2Z-R500C-SIM-C
				500	XW2Z-R050C-SIM-D
				1,000	XW2Z-R100C-SIM-D
Siemens PLCs with		32 input points	(A)	2,000	XW2Z-R200C-SIM-D
32-point connectors (1:2)				3,000	XW2Z-R300C-SIM-D
Applicable models:				5,000	XW2Z-R500C-SIM-D
For inputs: 6ES7 421-1BL-0AA0				500	XW2Z-R050C-SIM-E
For outputs:				1,000	XW2Z-R100C-SIM-E
6ES7 422-1BL-0AA0		32 output points	l ← (B) → I Straight length (without bends)	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*.

Combinations of Connections

Refer to Combinations of Connections (PLC I/O Units, NX Series, CJ Series, and CS Series) starting on the next page. 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



Combinations with NX Series

	NX	I/O Units		Conne	2	(W2Z-R Cables		G70	V I/O Relay Terminals	
I/O capacity	Model	External connectors	Polarity	ction pattern	Specifications	Model *1	Quantity required	Specifications	Model	Quantity required
Input Unit	s									•
16 inputs	NX-ID5142-5	1 MIL connector	NPN or PNP	F	1:1 for 16 inputs	XW2Z-RO□C	1		G70V-SID16P(-1)(-C16)	1
20 innute	NX-ID6142-5	1 MIL connector	NPN or PNP	Α	1:2 for 32 inputs	XW2Z-RO	1	Inputs *2	G70V-SID16P(-1)(-C16)	2
32 inputs	NX-ID6142-6	1 Fujitsu connector	NPN or PNP	A	1:2 for 32 inputs	XW2Z-RI C-	1		G70V-SID16P(-1)(-C16)	2
Output Un	its		l.		L					
16	NX-OD5121-5	1 MIL connector	NPN	F	1:1 for 16 outputs	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	1
outputs	NX-OD5256-5	1 MIL connector	PNP		1:1 for 16 outputs	XW2Z-RO□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1
32	NX-OD6121-5	1 MIL connector	NPN		1:2 for 32 outputs	XW2Z-RO	1	NPN outputs	G70V-SOC16P(-C4)	2
outputs	NX-OD6256-5	1 MIL connector	PNP	Α	1:2 for 32 outputs	XW2Z-RO -D1	1	PNP outputs	G70V-SOC16P-1(-C4)	2
32 outputs	NX-OD6121-6	1 Fujitsu connector	NPN		1:2 for 32 outputs	XW2Z-RO C-	1	NPN outputs	G70V-SOC16P(-C4)	2
Mixed I/O	Units		l.		L					
		2 Fujitsu connectors	Outputs:		1:1 for			Inputs *2	G70V-SID16P(-1)(-C16)	1
	NX-MD6121-6	(1 for 16 inputs and 1 for 16 outputs)	NPN Inputs: NPN or PNP		16 inputs or outputs	XW2Z-R□C 2	2	NPN outputs	G70V-SOC16P(-C4)	1
16 inputs	NX-MD6121-5	2 MIL connectors	Outputs: NPN	-	1:1 for 16 inputs	XW2Z-RO□C	1	Inputs *2	G70V-SID16P(-1)(-C16)	1
and 16 outputs		(1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP	E	1:1 for 16 outputs	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	1
	NX-MD6256-5	2 MIL connectors (1 for 16 inputs and	Outputs: PNP		1:1 for 16 inputs	XW2Z-RO□C	1	Inputs *2	G70V-SID16P(-1)(-C16)	1
		1 for 16 outputs)	Inputs: NPN or PNP		1:1 for 16 outputs	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.

Combinations with CJ Series

	CJ1\	W I/O Units		Conne	1	XW2Z-R Cables		G70	V I/O Relay Terminals	
I/O capacity	Model	External connectors	Polarity	ction pattern	Specifications	Model *1	Quantity required	Specifications	Model	Quantity required
DC Input U	Jnits						•			•
	CJ1W-ID231	1 Fujitsu connector	NPN		1:2 for 32 inputs	XW2Z-RI□C-□	1			
32 inputs	CJ1W-ID232	1 MIL connector	NPN	A	1:2 for 32 inputs	XW2Z-RO D1	1		G70V-SID16P(-1)(-C16)	2
	CJ1W-ID233	1 MIL connector	NPN		1:2 for 32 inputs	XW2Z-RO -D1	1	Inputs *2		
	CJ1W-ID261	2 Fujitsu connectors (2, 32-point connectors)	NPN	_	1:2 for 32 inputs	XW2Z-RI C-	1			
64 inputs	CJ1W-ID262	2 MIL connectors (2, 32-point connectors)	NPN	В	1:2 for 32 inputs	XW2Z-RO -D1	1		G70V-SID16P(-1)(-C16)	4
Transistor	Output Units		r.							
	CJ1W-OD231	1 Fujitsu connector	Sinking (NPN)		1:2 for 32 outputs	XW2Z-RO□C-□	1	- NPN outputs	G70V-SOC16P(-C4)	2
32	CJ1W-OD233	1 MIL connector	Sinking (NPN)	А	1:2 for 32 outputs	XW2Z-RO	1		G70V-SOC16F(-C4)	2
outputs	CJ1W-OD232	1 MIL connector	Sourcing (PNP)		1:2 for 32 outputs	XW2Z-RO	1	PNP outputs	G70V-SOC16P-1(-C4)	2
	CJ1W-OD234	1 MIL connector	Sinking (NPN)		1:2 for 32 outputs	XW2Z-RO	1	NPN outputs	G70V-SOC16P(-C4)	2
	CJ1W-OD261	2 Fujitsu connectors (2, 32-point connectors)	Sinking (NPN)		1:2 for 32 outputs	XW2Z-RO□C-□	2	NPN outputs	G70V-SOC16P(-C4)	4
64 outputs	CJ1W-OD262	2 MIL connectors (2, 32-point connectors)	Sourcing (PNP)	В	1:2 for 32 outputs	XW2Z-RO D1	2	PNP outputs	G70V-SOC16P-1(-C4)	4
	CJ1W-OD263	2 MIL connectors (2, 32-point connectors)	Sinking (NPN)		1:2 for 32 outputs	XW2Z-RO D1	2	NPN outputs	G70V-SOC16P(-C4)	4
DC Input/1	Transistor Outp	ut Units								
	CJ1W-MD231	2 Fujitsu connectors (1 for 16 inputs and	Sinking		1:1 for 16 inputs or	XW2Z-R⊡C	2	Inputs *2	G70V-SID16P(-1)(-C16)	1
	00100-1010201	1 for 16 outputs)	(NPN)		outputs	XW22-1100	2	NPN outputs	G70V-SOC16P(-C4)	1
16 inputs	CJ1W-MD233	2 MIL connectors (1 for 16 inputs and	Sinking		1:1 for 16 inputs	XW2Z-RO□C	1	Inputs *2	G70V-SID16P(-1)(-C16)	1
and 16 outputs		1 for 16 outputs)	(NPN)	E	1:1 for 16 outputs	XW2Z-RO⊡C	1	NPN outputs	G70V-SOC16P(-C4)	1
	CJ1W-MD232	2 MIL connectors (1 for 16 inputs and	Sourcing		1:1 for 16 inputs	XW2Z-RO⊡C	1	Inputs *2	G70V-SID16P(-1)(-C16)	1
		1 for 16 outputs)	(PNP)		1:1 for 16 outputs	XW2Z-RI⊡C	1	PNP outputs	G70V-SOC16P-1(-C4)	1
	CJ1W-MD261	2 Fujitsu connectors (1 for 32 inputs and	Sinking		1:2 for 16 inputs	XW2Z-RI□C-□	1	Inputs *2	G70V-SID16P(-1)(-C16)	2
32 inputs and 32		1 for 32 inputs and 1 for 32 outputs)	(NPN)	в	1:2 for 16 outputs	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
outputs	CJ1W-MD263	2 MIL connectors (1 for 32 inputs and	Sinking		1:2 for 32 inputs	XW2Z-RO D1	1	Inputs *2	G70V-SID16P(-1)(-C16)	2
		1 for 32 outputs)	(NPN)		1:2 for 32 outputs	XW2Z-RO	1	NPN outputs	G70V-SOC16P(-C4)	2

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

Combinations with CS Series

	CJ1	W I/O Units		Conne	>	(W2Z-R Cables		G70	V I/O Relay Terminals	
I/O capacity	Model	External connectors	Polarity	ction pattern	Specifications	Model *1	Quantity required	Specifications	Model	Quantity required
DC Input l	Units		÷				•			
32 inputs	CS1W-ID231	1 Fujitsu connector	NPN	А	1:2 for 32 inputs	XW2Z-RI C-	1		G70V-SID16P(-1)(-C16)	2
64 inputs	CS1W-ID261	2 Fujitsu connectors (2, 32-point connectors)	NPN	В	1:2 for 32 inputs	XW2Z-RI C-	2	Inputs *2	G70V-SID16P(-1)(-C16)	4
96 inputs	CS1W-ID291	2 Fujitsu connectors (2, 48-point connectors)	NPN	D	1:3 for 48 inputs or outputs	XW2Z-R□C-□-□	2		G70V-SID16P(-1)(-C16)	6
Transistor	Output Units		r.							
32	CS1W-OD231	1 Fujitsu connector	Sinking (NPN)	Α	1:2 for 32 outputs	XW2Z-RO C-	1	NPN outputs	G70V-SOC16P(-C4)	2
outputs	CS1W-OD232	1 Fujitsu connector	Sourcing (PNP)		1:2 for 32 outputs	XW2Z-RO□C-□	1	PNP outputs	G70V-SOC16P-1(-C4)	2
64	CS1W-OD261	2 Fujitsu connectors (2, 32-point connectors)	Sinking (NPN)	В	1:2 for 32 outputs	XW2Z-RO□C-□	2	NPN outputs	G70V-SOC16P(-C4)	4
outputs	CS1W-OD262	2 Fujitsu connectors (2, 32-point connectors)	Sourcing (PNP)		1:2 for 32 outputs	XW2Z-RO□C-□	2	PNP outputs	G70V-SOC16P-1(-C4)	4
96 outputs	CS1W-OD291	2 Fujitsu connectors (2, 48-point connectors)	Sinking (NPN)	D	1:3 for 48 inputs or outputs	XW2Z-R□C-□-□	2	NPN outputs	G70V-SOC16P(-C4)	6
DC Input/1	Fransistor Outp	ut Units								
	CS1W-	2 Fujitsu connectors (1 for 32 inputs and	Sinking		1:2 for 32 inputs	XW2Z-RI□C-□	1	Inputs *2	G70V-SID16P(-1)(-C16)	2
32 inputs and 32	MD261	1 for 32 outputs)	(NPN)	- В	1:2 for 32 outputs	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
outputs	CS1W-	2 Fujitsu connectors (1 for 32 inputs and	Sourcing		1:2 for 32 inputs	XW2Z-RI□C-□	1	Inputs *2	G70V-SID16P(-1)(-C16)	2
	MD262	1 for 32 outputs)	(PNP)		1:2 for 32 outputs	XW2Z-RO□C-□	1	PNP outputs	G70V-SOC16P-1(-C4)	2
	CS1W-	2 Fujitsu connectors	Sinking		1:3 for		0	Inputs *2	G70V-SID16P(-1)(-C16)	3
48 inputs and 48	MD291	(1 for 48 inputs and 1 for 48 outputs)	(NPN)	- D	48 inputs or outputs	XW2Z-R□C-□-□	2	NPN outputs	G70V-SOC16P(-C4)	3
outputs	CS1W-	2 Fujitsu connectors	Sourcing		1:3 for	XW2Z-RC-C-C	1	Inputs *2	G70V-SID16P(-1)(-C16)	3
	MD292	(1 for 48 inputs and 1 for 48 outputs)	(PNP)		48 inputs or outputs					

***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-IDDDDD, NX-IADDDD, NX-ODDDDDD, NX-OCDDDD, NX-MDDDDD	W521	NX-series Digital I/O Units User's Manual

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