

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%* 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.
- DIN Track or screw mounting.

* According to OMRON actual measurement data from November 2015.



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

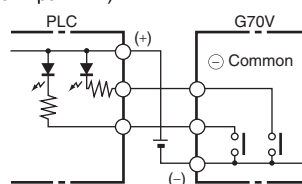
Refer to *Safety Precautions* on page 9.

Model Number Legend

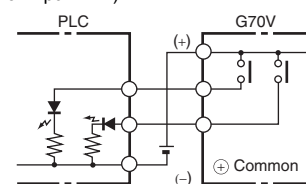
G70V - **16 P** -
(1) (2) (3) (4) (5) (6)

- (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) Internal I/O Circuit Common
Blank: NPN
1: PNP

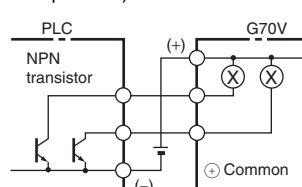
(For Input NPN)



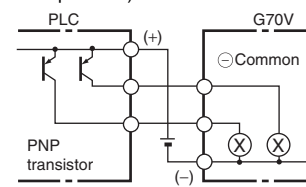
(For Input PNP)



(For Output NPN)



(For Output PNP)



G70V

Ordering Information

I/O Relay Terminal

Terminals	Type	Points	Internal I/O circuit common	Rated voltage	Model
Push-In Plus terminal blocks	Input *1	16	NPN (– common)	24 VDC	G70V-SID16P
			PNP (+ common)		G70V-SID16P-1
	Output *2		NPN (+ common)		G70V-SOC16P
			PNP (– common)		G70V-SOC16P-1

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

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

Relay Terminal Sockets

Applicable I/O Relay Terminal	Type	Common Processing in Connector	Model
G70V-SID16P	Input	NPN (– common)	G70V-ZID16P
G70V-SID16P-1		PNP (+ common)	G70V-ZID16P-1
G70V-SOC16P	Output	NPN (+ common)	G70V-ZOM16P
G70V-SOC16P-1		PNP (– common)	G70V-ZOM16P-1

Note: Relays are not mounted to the G70V-ZID/ZOM16P(-1) Relay Terminal Sockets. Combine the Relay Terminal Sockets with Slim I/O Relays or Slim I/O SSRs.

Accessories (Order Separately)

Mountable Relays

Applicable I/O Relay Terminal	Type	Classification			Model
G70V-SID16P(-1)	Input	Slim I/O Relays *1			G2RV-1-S-AP-G DC21
G70V-SOC16P(-1)	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	Zero cross function	G3RV-202S DC24
				No zero cross function	G3RV-202SL DC24
			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 Relay Terminal Socket and I/O SSRs separately and combine them.

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

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

When ordering, designate the rated voltage.

Connecting Cables XW2Z-R

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

Refer to *Applicable Cables* on page 11 for details.

Labels

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

Parts for DIN Track Mounting

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

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

Specifications

Coil Ratings (Common to Input/Output per Relay)

Item	Rated current (mA)	Coil resistance (Ω)	Must operate of rated voltage	Must release of rated voltage	Maximum voltage of rated voltage	Power consumption (mW)
Rated voltage (V)						
24 VDC	13.3	1575	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)

Item	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	
Max. switching voltage		30 VAC, 36 VDC	250 VAC, 125 VDC	
Max. switching current		50 mA	6 A	
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 life expectancy		5,000,000 operations min.	NO contacts: 70,000 operations min. NC contacts: 50,000 operations min.	
Mechanical life expectancy		5,000,000 operations min.	5,000,000 operations min.	

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

Characteristics

Item		Model	G70V-SID16P(-1) (Input, DC coil)	G70V-SOC16P(-1) (output, DC coil)
Contact form			SPST-NO \times 16	SPDT \times 16
Contact material			Ag alloy + Au plating	Ag alloy
Contact resistance *1			150 m Ω max.	
Must Operate time *2			20 ms max.	
Release time *2			40 ms max.	
Max. switching frequency	Mechanical limit		18,000 operations/hour	
	At rated load		1,800 operations/hr (under rated load)	
Insulation resistance			100 M Ω min.	
Dielectric strength			Between coil and contacts: 2,500 VAC for 1 min	
Vibration resistance			5 min each in 3 directions along 3 axes	
Shock resistance			100 m/s ² , 3 times each in 6 directions along 3 axes	
Noise immunity			Noise level: 1.5 kV; pulse width: 100 ns to 1 μ s	
Ambient operating temperature			-40 to 55°C (with no icing or condensation)	
Ambient operating humidity			35% to 85% RH	
LED color	Power supply		Green	
	I/O		Yellow	
Weight			Approx. 350 g	Approx. 370 g

Note: The above values are initial values.

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

*2. Ambient temperature: 23°C.

Applicable Standards

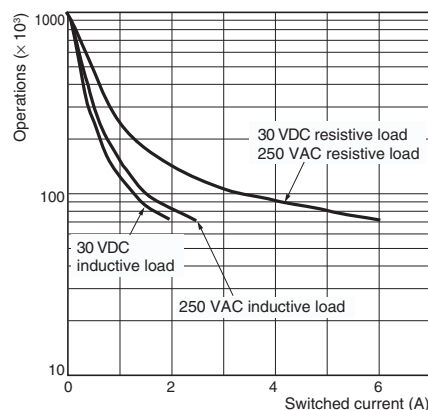
- UL 61010-2-201, CAN/CSA-C22.2 No.61010-2-201, TÜV (EN 61810-1)

G70V

Engineering Data (Reference Value)

Endurance Curve (NO Contacts)

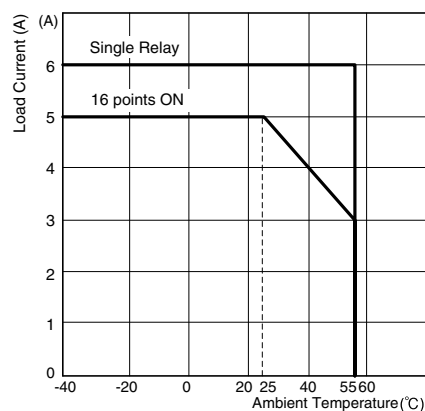
G70V-SOC16P(-1)



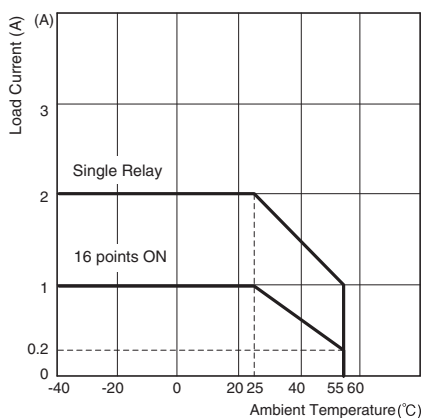
Note: These data are actual measured values that were sampled from the production line and prepared in graph format, and are for reference purposes only. A relay is manufactured by mass production, and as a basic rule must be used with allowance made for a certain amount of deviation.

Load Current vs. Ambient Temperature

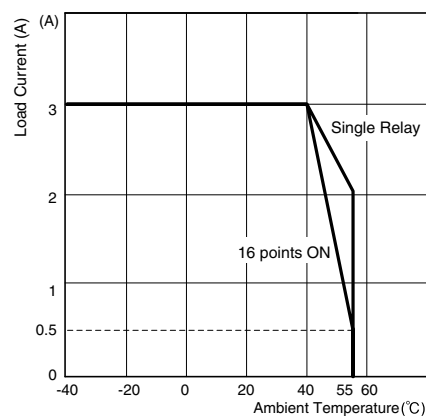
G70V-SOC16P(-1)



G3RV-202S DC24 G3RV-202SL DC24



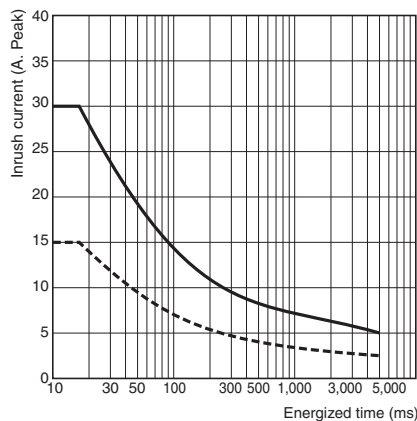
G3RV-D03 DC24



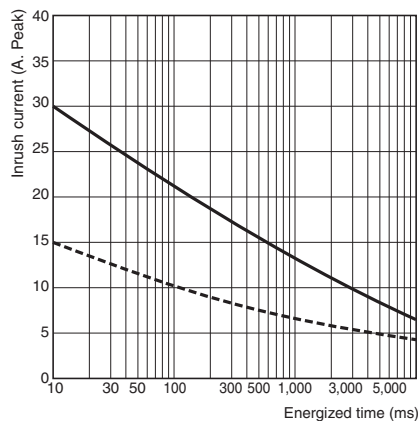
Inrush Current Resistance: Non-repetitive

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

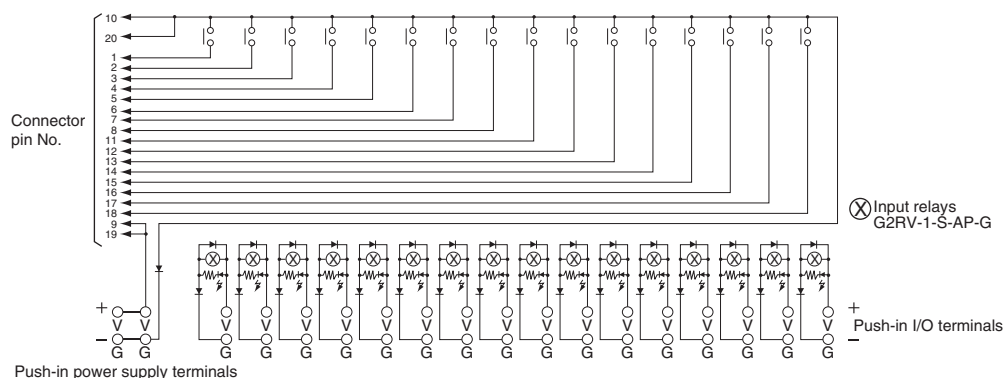
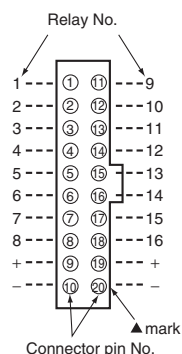


Terminal Arrangement/Internal Connection

G70V-SID16P

(NPN input/– common)

Connector Pin Configuration Top View



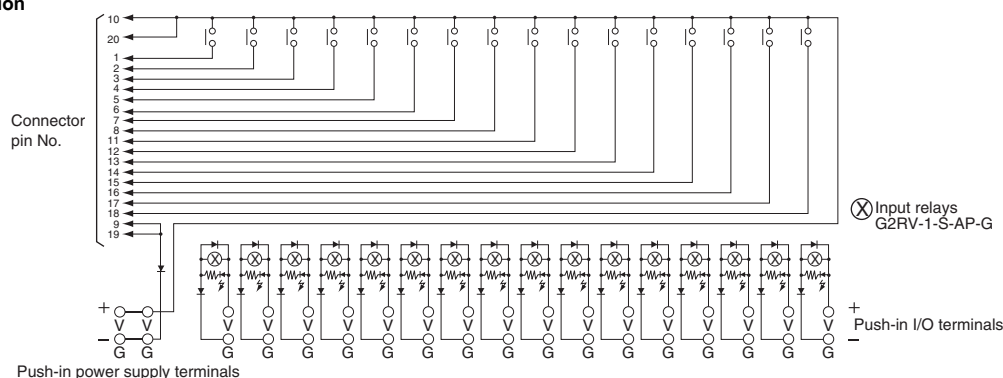
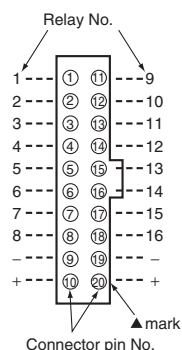
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

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 Configuration Top View



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

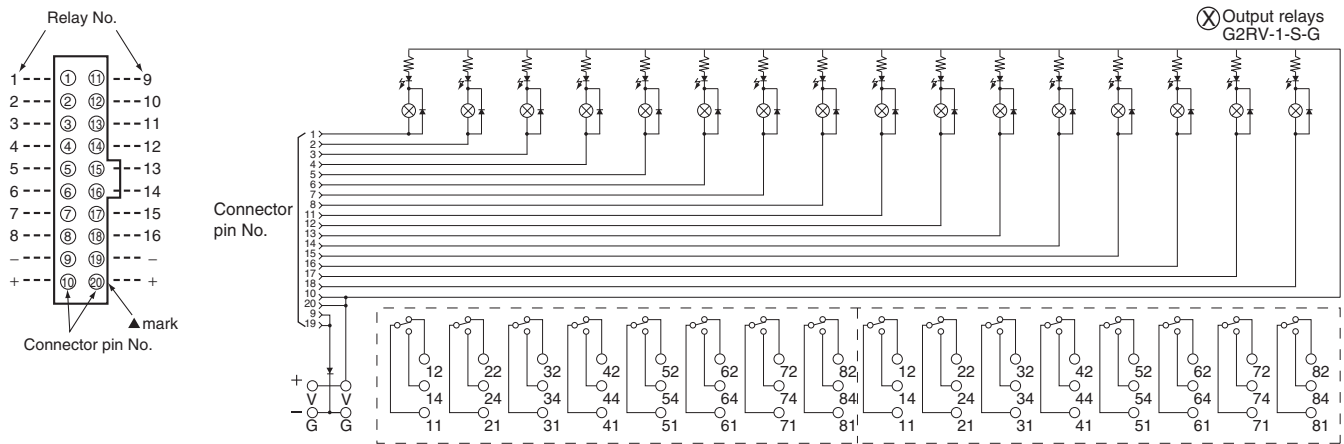
Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
V (push-in I/O terminals)	Relay-drive coil terminals (24 VDC)
G (push-in I/O terminals)	

G70V-SOC16P

(NPN output/+ common)

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

Connector Pin Configuration
Top View



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

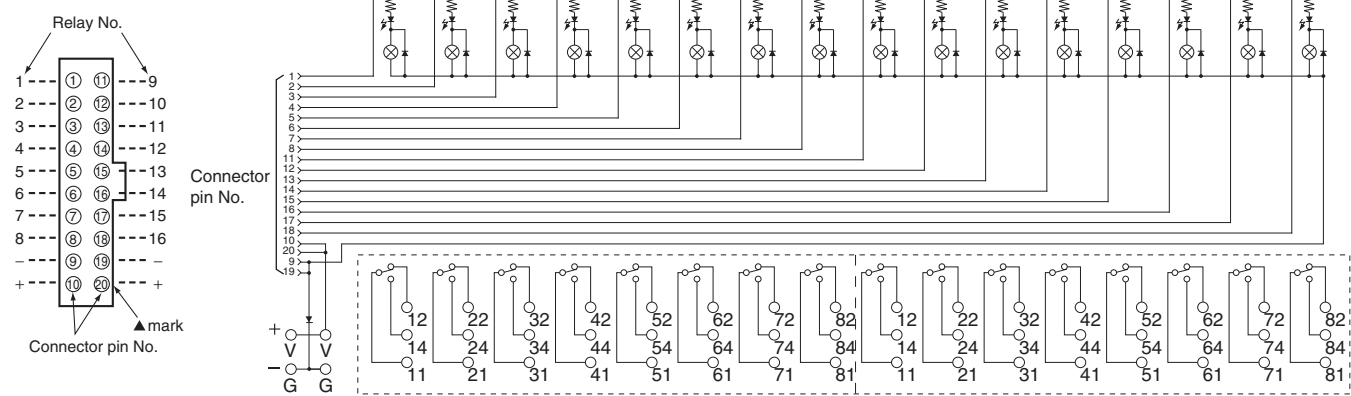
Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

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 Configuration
Top View



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

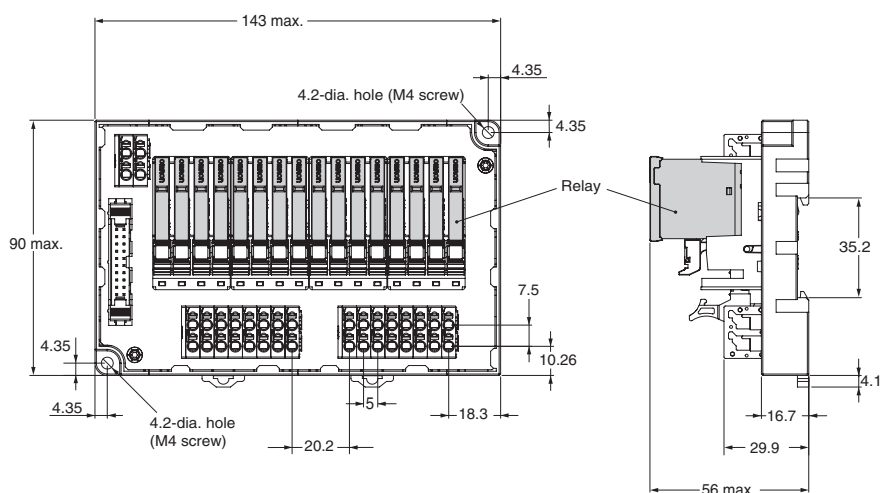
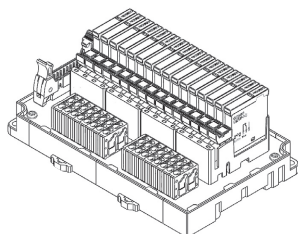
Terminal name	Description
V (push-in power supply terminals)	Unit power supply terminals (24 VDC)
G (push-in power supply terminals)	
11 to 81 (push-in I/O terminal common terminals)	Relay contact terminals
12 to 82 (push-in I/O terminal NC terminals)	
14 to 84 (push-in I/O terminal NO terminals)	

Dimensions

I/O Relay Terminals and Relay Terminal Sockets

For Inputs

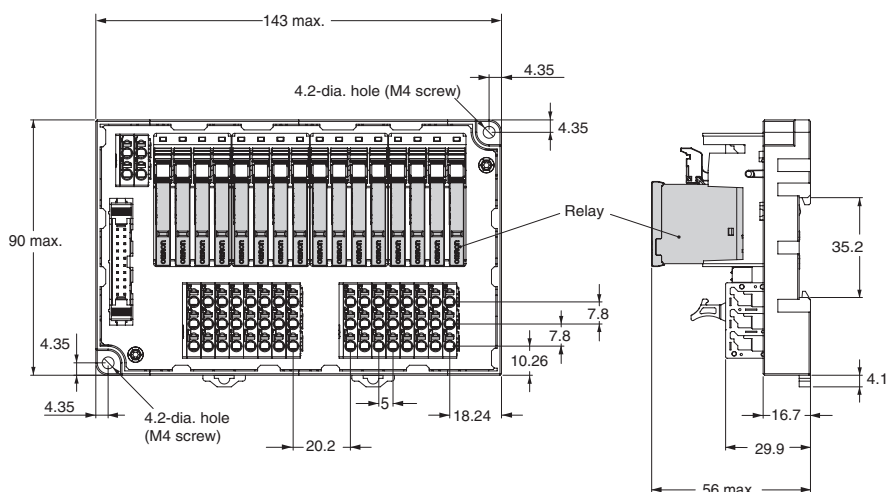
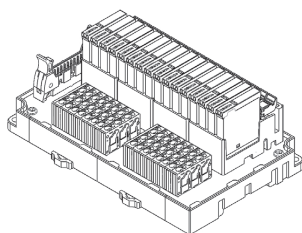
G70V-SID16P
G70V-SID16P-1
G70V-ZID16P
G70V-ZID16P-1



Note: 1. Relays are not mounted to the G70V-ZID16P(-1) Relay Terminal Sockets. The dimensions are for when Relays are not mounted.
2. Specified mounting torque: 0.59 to 0.98 N·m.

For Outputs

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



Note: 1. Relays are not mounted to the G70V-ZOM16P(-1) Relay Terminal Sockets. The dimensions are for when Relays are not mounted.
2. Specified mounting torque: 0.59 to 0.98 N·m.

I/O Relay Terminal Details

- 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.

Safety Precautions

Be sure to read the *Common Precautions for I/O Relay Terminal* 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 wiring materials from smoking or ignition, use the wiring materials given in the following table.

Recommended wire gauge	Stripping length	
	Ferrules used	Ferrules not used
0.25 to 1.5mm ² /AWG24 to 16	10 mm	8 mm

Note: Please use Ferrules with UL certification (R/C).

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.

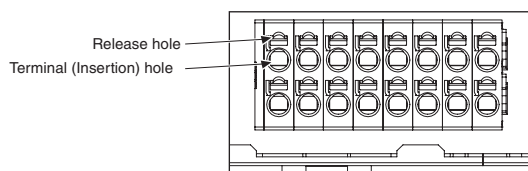
Precautions for Correct Use

- 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

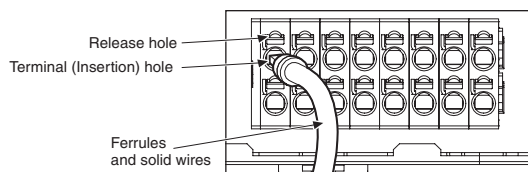
1. Connecting Wires to the Push-In Plus Terminal Block

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.

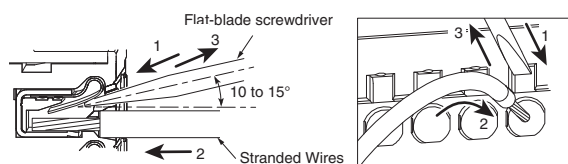


- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

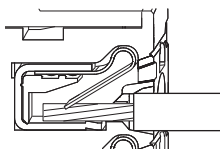
Use the following procedure to connect the wires to the terminal block.

- 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.
- Remove the flat-blade screwdriver from the release hole.



Checking Connections

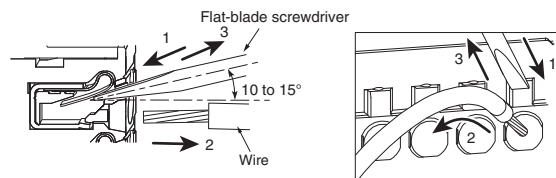
- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- To prevent short circuits, insert the stripped part of a stranded or solid wire or the conductor part of a ferrule until it is hidden inside the terminal insertion hole. (See the following diagram.)



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.

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



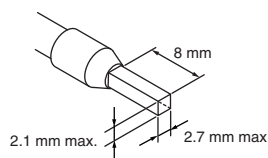
3. Recommended Ferrules and Crimp Tools

Recommended ferrules

Applicable wire		Ferrule Conduct or length (mm)	Recommended ferrules		
(mm²)	(AWG)		Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	AI0.25-8	H0.25/12	FE-0.25-8N-YE
0.34	22	8	AI0.34-8	H0.34/12	FE-0.34-8N-TQ
0.5	20	8	AI0.5-8	H0.5/14	FE-0.5-8N-WH
0.75	18	8	AI0.75-8	H0.75/14	FE-0.75-8N-GY
1	18	8	AI1-8	H1.0/14	FE-1.0-8N-RD
1.5	16	8	AI1.5-8	H1.5/14	FE-1.5-8N-BK
Recommended crimp tool			CRIMPFOX6	PZ6 roto	Variocrimp4

*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.

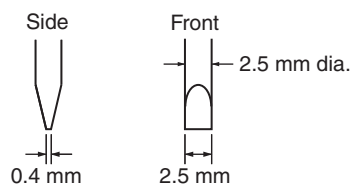


Recommended Flat-blade Screwdriver

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
XW4Z-00B	Omron
ESD0.40X2.5	Wera
SZF 0.4X2.5	Phoenix Contact
0.4X2.5X75 302	Wiha
AEF.2.5X75	Facom
210-719	Wago
SDI 0.4X2.5X75	Weidmuller

Applicable Cables

Name		Appearance	Cable length L (mm)		Connecting Cables	Applicable Connectors	
Cables with Loose Wires and Crimp Terminals XW2Z-RY□C	16 I/O points		1,000		XW2Z-RY100C	Various devices	
			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	Various devices	
			5,000		XW2Z-RA500C		
Cables with Connectors (1:1) XW2Z-R□C	16 I/O points		1,000		XW2Z-R100C	PLC I/O Units with Fujitsu connectors (1:1)	
			1,500		XW2Z-R150C		
			2,000		XW2Z-R200C		
			3,000		XW2Z-R300C		
			5,000		XW2Z-R500C		
Cables with Connectors (1:2) XW2Z-R□C-□, XW2Z-RO□C-□	32 input points		(A) 1,000	(B) 750	XW2Z-R1100C-75	PLC I/O Units with Fujitsu connectors (1:2)	
			(A) 1,500	(B) 1,250	XW2Z-R1150C-125		
			(A) 2,000	(B) 1,750	XW2Z-R1200C-175		
			(A) 3,000	(B) 2,750	XW2Z-R1300C-275		
			(A) 5,000	(B) 4,750	XW2Z-R1500C-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		
			Straight length (without bends)				
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	PLC I/O Units with Fujitsu connectors (1:3)
			(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	
			Straight length (without bends)				
Cables with Connectors (1:1) XW2Z-R□C, XW2Z-RO□C	16 input points		250		XW2Z-R125C	PLC I/O Units with MIL connectors (1:1)	
	500		XW2Z-R150C				
	16 output points		250		XW2Z-RO25C		
			500		XW2Z-RO50C		
Cables with Connectors (1:2) XW2Z-R□C-□-D1, XW2Z-RO□C-□-D1, XW2Z-RM□C-□-D1, XW2Z-R□C-□-D2, XW2Z-RM□C-□-D2	32 input points		(A) 500	(B) 250	XW2Z-R150-25-D1	PLC I/O Units with MIL connectors (NPN) (1:2)	
	32 output points		(A) 750	(B) 500	XW2Z-R175-50-D1		
			(A) 500	(B) 250	XW2Z-RO50-25-D1		
			(A) 750	(B) 500	XW2Z-RO75-50-D1		
			16 input points/ 16 output points	(A) 500	(B) 250		XW2Z-RM50-25-D1
	(A) 750			(B) 500	XW2Z-RM75-50-D1		
	32 input points		(A) 500	(B) 250	XW2Z-R150-25-D2	PLC I/O Units with MIL connectors (PNP) (1:2)	
			(A) 750	(B) 500	XW2Z-R175-50-D2		
			16 input points/ 16 output points	(A) 500	(B) 250		XW2Z-RM50-25-D2
				(A) 750	(B) 500		XW2Z-RM75-50-D2

Name	Appearance	Cable length L (mm)		Connecting Cables	Applicable Connectors				
Mitsubishi Electric PLC Connecting Cables XW2Z-RI□C-□-MN, XW2Z-RO□C-□-MN	32 input points	End A Device end	End B I/O Relay Terminal	(A) 1,000	(B) 750	XW2Z-RI100C-75-MN	Mitsubishi Electric PLCs with 32-point connectors (1:2) For inputs: AX42, A1SX41, A1SX42 For outputs: AY42, A1SY41, A1SY42		
				(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			
	32 output points			(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			
Straight length (without bends)									
Schneider Electric PLC Connecting Cables XW2Z-R□C-SCH-□	32 input points			500		XW2Z-R050C-SCH-A	Schneider Electric PLCs with 32-point connectors (1:2) For inputs: 140 DDI 353 00 For outputs: 140 DDO 353 00		
				1,000		XW2Z-R100C-SCH-A			
				2,000		XW2Z-R200C-SCH-A			
				3,000		XW2Z-R300C-SCH-A			
	32 output points			5,000		XW2Z-R500C-SCH-A			
				500		XW2Z-R050C-SCH-B			
				1,000		XW2Z-R100C-SCH-B			
				2,000		XW2Z-R200C-SCH-B			
	16 input points			3,000		XW2Z-R300C-SCH-B			
				5,000		XW2Z-R500C-SCH-B			
		16 output points			500		XW2Z-R050C-SCH-C	Schneider Electric PLCs with 16-point connectors (1:1) For inputs: BMX DDI 1602 For outputs: BMX DDO 1602	
					1,000		XW2Z-R100C-SCH-C		
			2,000		XW2Z-R200C-SCH-C				
			3,000		XW2Z-R300C-SCH-C				
	16 input points			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				
Siemens PLC Connecting Cables XW2Z-R□C-SIM-□	32 input points			500		XW2Z-R050C-SIM-A	Siemens PLCs with 32-point connectors (1:2) For inputs: 6ES7 321-1BL00-0AA0 For outputs: 6ES7 322-1BL00-0AA0		
				1,000		XW2Z-R100C-SIM-A			
				2,000		XW2Z-R200C-SIM-A			
				3,000		XW2Z-R300C-SIM-A			
	32 output points			5,000		XW2Z-R500C-SIM-A			
				500		XW2Z-R050C-SIM-B			
				1,000		XW2Z-R100C-SIM-B			
				2,000		XW2Z-R200C-SIM-B			
	16 input points			3,000		XW2Z-R300C-SIM-B			
				5,000		XW2Z-R500C-SIM-B			
		32 input points			500		XW2Z-R050C-SIM-C	Siemens PLCs with 16-point connectors (1:1) For inputs: 6ES7 321-1BH02-0AA0	
					1,000		XW2Z-R100C-SIM-C		
			2,000		XW2Z-R200C-SIM-C				
			3,000		XW2Z-R300C-SIM-C				
	32 output points			5,000		XW2Z-R500C-SIM-C			
		32 input points			500		XW2Z-R050C-SIM-D		Siemens PLCs with 32-point connectors (1:2) For inputs: 6ES7 421-1BL-0AA0 For outputs: 6ES7 422-1BL-0AA0
					1,000		XW2Z-R100C-SIM-D		
					2,000		XW2Z-R200C-SIM-D		
			3,000		XW2Z-R300C-SIM-D				
	32 output points			5,000		XW2Z-R500C-SIM-D			
32 input points				500		XW2Z-R050C-SIM-E	Siemens PLCs with 32-point connectors (1:2) For inputs: 6ES7 421-1BL-0AA0 For outputs: 6ES7 422-1BL-0AA0		
				1,000		XW2Z-R100C-SIM-E			
				2,000		XW2Z-R200C-SIM-E			
			3,000		XW2Z-R300C-SIM-E				
32 output points			5,000		XW2Z-R500C-SIM-E				

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

- (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
- (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See <http://www.omron.com/global/> or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation Industrial Automation Company
Kyoto, JAPAN

Contact: 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 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 ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967
Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2016 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

Cat. No. J215-E1-01

0316(0316)