

Slim I/O Relay G2RV-ST

Slim I/O relay realizes space saving thanks to high-density mounting and ultra-slim body

- 60% space saving from G2R series with 6.2 mm width technology.
- 60%*1 reduction in wiring time and user-friendly with a low insertion force thanks to Push-In Plus Technology.
- Max. 6 A realized even with close-contact mounting.
- Au-plated contacts suitable for micro loads with a failure rate P value*2 of 1 mA at 100 mVDC.
- A transparent case that allows for easy on-site visual checks of contact state abnormalities.
- Easy relay replacement with a terminal structure that does not bend easily.
- Operation check using a test switch reduces inspection time.
- A coil surge absorption circuit equipped as standard.

*1. According to OMRON actual measurement data for both push-in plus terminal blocks and screw terminal blocks.

*2. Reference value

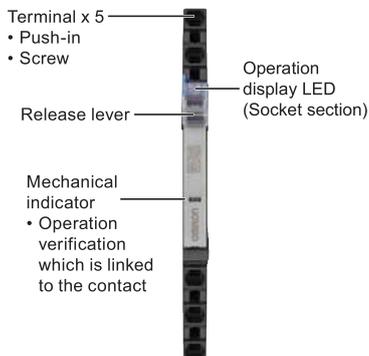


For the recent information on models that have been certified for safety standards, refer to your OMRON website.

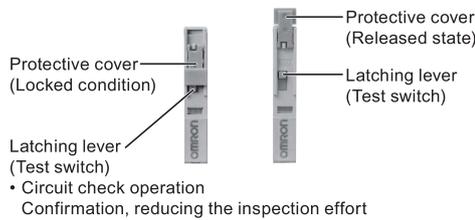
Refer to *Safety Precautions* on page 22.

Features

Standard model/Micro load

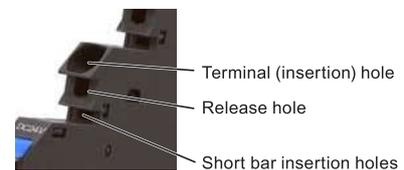


With latching lever (Test switch)



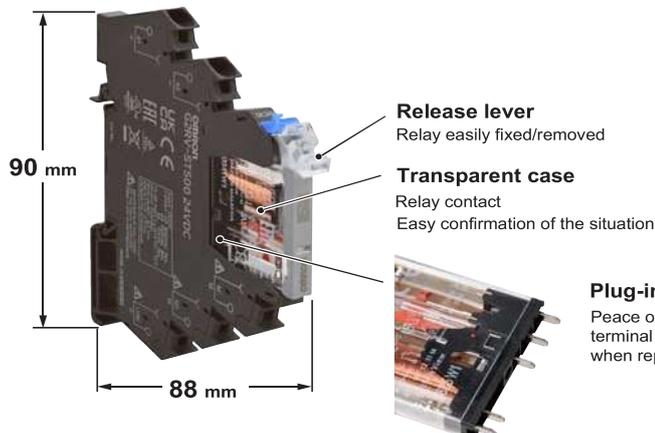
- Circuit check operation Confirmation, reducing the inspection effort

Push-In Plus technology



Common Precautions

Common Accessories



Model Number Structure

Model Number Legend

G2RV-ST □□ □ - □ □
 (1) (2) (3) (4) (5) (6)

(1) Basic model name
 G2RV: Slim I/O Relay

(2) Sub type

ST: Slim relay + integrated low profile socket

(3) Terminal (wire connection)
 50: Push-In Plus Terminal
 70: Screw terminal

(4) Latching lever (test switch)
 0: Without latching lever
 1: With latching lever

(5) Contact structure
 Blank: Standard
 AP: Microloads

(6) Rated input voltage
 12, 24 VDC
 24, 48 VAC/VDC
 100, 110, 200, 230 VAC

Ordering Information

Terminal (Wire connection)	Classification	Latching lever (Test switch)	Rated input voltage (V)		Model
Push-In Plus Terminal	Standard	No	DC	12	G2RV-ST500 12 VDC
				24	G2RV-ST500 24 VDC
			AC/DC	24	G2RV-ST500 24 VAC/VDC
				48	G2RV-ST500 48 VAC/VDC
			AC	100	G2RV-ST500 100 VAC
				110	G2RV-ST500 110 VAC
				200	G2RV-ST500 200 VAC
	Microloads	No	DC	100	G2RV-ST500 100 VAC
				110	G2RV-ST500 110 VAC
			AC	200	G2RV-ST500 200 VAC
				230	G2RV-ST500 230 VAC
				24	G2RV-ST501 24 VDC
			AC/DC	24	G2RV-ST501 24 VAC/VDC
				24	G2RV-ST501 24 VAC/VDC
Screw terminal	Standard	No	DC	12	G2RV-ST700 12 VDC
				24	G2RV-ST700 24 VDC
			AC/DC	24	G2RV-ST700 24 VAC/VDC
				48	G2RV-ST700 48 VAC/VDC
			AC	100	G2RV-ST700 100 VAC
				110	G2RV-ST700 110 VAC
				200	G2RV-ST700 200 VAC
	Microloads	No	DC	200	G2RV-ST700 200 VAC
				230	G2RV-ST700 230 VAC
			AC/DC	24	G2RV-ST701 24 VDC
				24	G2RV-ST701 24 VAC/VDC
			AC	100	G2RV-ST700-AP 100 VAC
				110	G2RV-ST700-AP 110 VAC
				200	G2RV-ST700-AP 200 VAC
Microloads	No	DC	230	G2RV-ST700-AP 230 VAC	
			12	G2RV-ST700-AP 12 VDC	
		AC/DC	24	G2RV-ST700-AP 24 VDC	
			48	G2RV-ST700-AP 48 VAC/VDC	
		AC	100	G2RV-ST700-AP 100 VAC	
			110	G2RV-ST700-AP 110 VAC	
			200	G2RV-ST700-AP 200 VAC	
Microloads	No	DC	230	G2RV-ST700-AP 230 VAC	
			12	G2RV-ST700-AP 12 VDC	
		AC/DC	24	G2RV-ST700-AP 24 VDC	
			48	G2RV-ST700-AP 48 VAC/VDC	
		AC	100	G2RV-ST700-AP 100 VAC	
			110	G2RV-ST700-AP 110 VAC	
			200	G2RV-ST700-AP 200 VAC	

Note: Sockets are not sold individually.

G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST

Relay for Maintenance

Model Number Legend

G2RV-1 - S - - **G**

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

(1) No. of poles

1: 1 pole

(2) Terminal

S: plug-in

(3) Latching lever (Test switch)

Blank: Without latching lever

I: With latching lever

(4) Contact material

Blank: Ag alloy

AP: Ag alloy + Au plating

(5) Types of relay for exchange

G: G2RV-ST series equipped

Relay

(6) Rated coil voltage

Number: 11, 21, 48 VDC

G2RV-1-SI-G



G2RV-1-S(-AP)-G



List of Models

Type	Latching Lever (Test switch)	Rated coil voltage (V)		Model	Applicable model
Standard	No	DC	11	G2RV-1-S-G DC11	G2RV-ST700/500 12 VDC
			21	G2RV-1-S-G DC21	G2RV-ST700/500 24 VDC
			48	G2RV-1-S-G DC48	G2RV-ST700/500 24 VAC/VDC
					G2RV-ST700/500 48 VAC/VDC
	Yes	DC	21	G2RV-1-SI-G DC21	G2RV-ST700/500 100 VAC
					G2RV-ST700/500 110 VAC
					G2RV-ST700/500 200 VAC
					G2RV-ST700/500 230 VAC
Microload	No	DC	11	G2RV-1-S-AP-G DC11	G2RV-ST700/500-AP 12 VDC
			21	G2RV-1-S-AP-G DC21	G2RV-ST700/500-AP 24 VDC
			48	G2RV-1-S-AP-G DC48	G2RV-ST700/500-AP 24 VAC/VDC
					G2RV-ST700/500-AP 48 VAC/VDC
	Yes	DC	21	G2RV-1-SI-AP-G DC21	G2RV-ST700/500-AP 100 VAC
					G2RV-ST700/500-AP 110 VAC
					G2RV-ST700/500-AP 200 VAC
					G2RV-ST700/500-AP 230 VAC

Note: Voltage is reduced within the socket for the slim I/O relay, so the rated input voltage and rated coil voltage of replacement relays are different.

Accessories (order separately)

Refer to page 29 for G2RV-ST/G3RV-ST Common Accessories.

G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

Specifications

Ratings

Coil ratings

Rated input voltage	Rated current			Must operate voltage	Must release voltage	Power consumption		Maximum allowable voltage
	AC		DC			Percentage of the rated voltage	AC (VA)	
	50 Hz	60 Hz		Percentage of the rated voltage	AC (VA)			DC (mW)
12 VDC	–	–	27.9 mA	80% max.*	10% min.	–	Approx. 300 mW	110%
24 VDC	–	–	13.5 mA			–	Approx. 300 mW	
24 VAC/VDC	13.7 mA	14.9 mA	12.6 mA			Approx. 0.4 VA	Approx. 300 mW	
48 VAC/VDC	5.9 mA	6.4 mA	5.4 mA			Approx. 0.3 VA	Approx. 250 mW	
100 VAC	6.8 mA	7.1 mA	–			Approx. 0.7 VA	–	
110 VAC	6.1 mA	6.4 mA	–			Approx. 0.7 VA	–	
200 VAC	6.1 mA	7.3 mA	–			Approx. 1.5 VA	–	
230 VAC	6.8 mA	8.2 mA	–			Approx. 1.9 VA	–	

Note: The operating characteristics are measured at ambient temperature of 23°C.

The rated current tolerances are as follows. AC rating: +15%/-20%, DC rating: ±10%

* Operating voltage will be, for mounting in the upside down direction, 85% max.

(Upside down: Direction in which the mechanical indicator faces down)

Contact ratings

Item	Standard (G2RV-ST700, 500, 701, 501)		For microloads (G2RV-ST700-AP, 500-AP) *2
Contact configuration	SPDT		
Load	Resistive load ($\cos\phi=1$)	Inductive load ($\cos\phi=0.4$, L/R=7ms)	Resistive load ($\cos\phi=1$)
Rated load	6 A at 250 VAC 6 A at 30 VDC	2.5 A at 250 VAC 2 A at 30 VDC	50 mA at 30 VAC 50 mA at 36 VDC
Rated carry current *3	6 A		50 mA
Maximum switching voltage	440 VAC, 125 VDC		30 VAC, 36 VDC
Maximum switching current	6 A		50 mA
Maximum switching power	1,500 VA 180 W	500 VA 60 W	–
Failure rate P value (reference value) *1	10 mA at 5 VDC		1 mA at 100 mVDC

*1. P level: $\lambda_{60}=0.1 \times 10^{-6}$ /times

This value is the value in switching frequency 120 operations/min.

*2. If the Au plating layer is destroyed, the number will be the same as the standard type.

*3. Please energize under 32A total when use short bar connection.

Characteristics

Item		Standard (G2RV-ST700, 500, 701, 501)	For microloads (G2RV-ST700-AP, 500-AP)
Contact resistance *		100 m Ω max.	
Operate time *		20 ms max.	
Release time *		AC, AC/DC: 40 ms max. DC: 20 ms max.	
Maximum operating frequency		Mechanical: 18,000 operations/h Electrical: 1,800 operations/h (rated load)	
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Dielectric strength		Between coil and contacts: 4,000VAC 50/60 Hz 1 min Contact between the same polarity: 1,000 VAC 50/60 Hz 1 min	
Vibration resistance		Destruction: 10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm) Malfunction: 10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm)	
Shock resistance		Destruction: 1,000 m/s ² Malfunction: Energized 200m/s ² , Non-energized 100m/s ²	
Endurance *	Mechanical	5,000,000 operations min.	
	Electrical	NO contact: 70,000 operations min. NC contact: 50,000 operations min.	5,000,000 operations min.
Ambient operating temperature		Operating: -40 to +55°C (with no icing or condensation)	
Ambient operating humidity		Operating: 5 to 85% RH	
Weight		Approx. 30 g	
Type of interruption		Micro-disconnection	
Type of insulation		Basic isolation: Coil-Contact, Live parts-Ground	
Pollution degree		2	
Impulse withstand voltage		4.0 kV	
Test procedure		A (Group mounting)	
Categories of environmental protection		RT 1	
Degree of protection by enclosure according to IEC 60529		IP20	
Contact material		Ag alloy	Ag alloy + Au plating

Note: Above values are initial values.

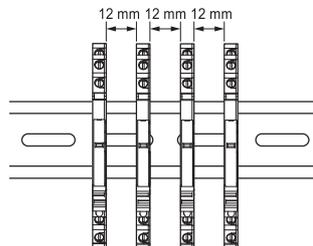
* Value is at ambient temperature of 23°C.

Approved standards

UL (File No.E41515)

Model	Contact form	Operation coil ratings	Contact ratings	Operations
G2RV-ST series	SPDT	12 to 48 VDC 24 to 230 VAC	6 A at 250 VAC (Resistive load) 6 A at 30 VDC (Resistive load) 2 A at 400 VAC (Resistive load)*	6,000

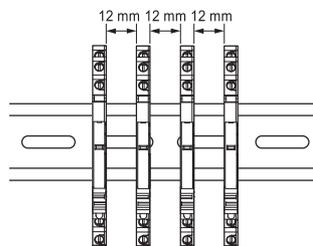
* If the load voltage exceeds 250 VAC, please attach with a spacing of 12 mm min., or use a separate plate (XW5Z-EP12) or 4psc of isolation plate (P2RV-P3.1T).



TÜV (File No.R50559210, EN61810-1)

Model	Contact form	Operation coil ratings	Contact ratings	Operations
G2RV-ST series	SPDT	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	6 A at 250 VAC (Resistive load) 6 A at 30 VDC (Resistive load) 2 A at 400 VAC (Resistive load)*	50,000 50,000 6,000

* If the load voltage exceeds 250 VAC, please attach with a spacing of 12 mm min., or use a separate plate (XW5Z-EP12) or 4psc of isolation plate (P2RV-P3.1T).

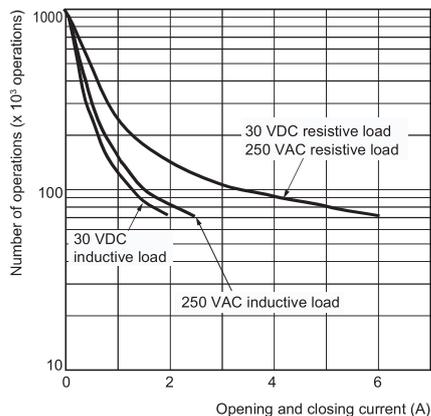


Lloyd's (File No.LR23158192TA)

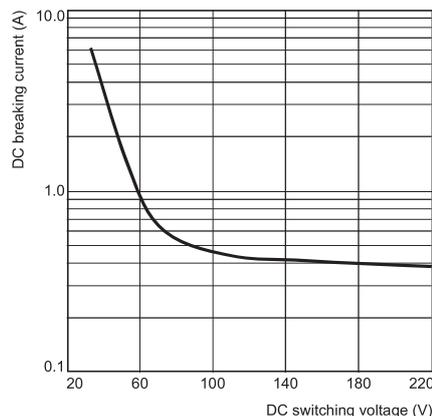
Model	No. of poles	Operation coil ratings	Contact ratings
G2RV-ST500 G2RV-ST700	1c	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	6 A at 250 VAC (Resistive load) 2.5 A at 250 VAC (PF0.4) 6 A at 30 VDC (Resistive load) 2 A at 30 VDC (L/R=7 ms)
G2RV-ST501 G2RV-ST701	1c	12, 24 VDC 24 VAC/VDC	6 A at 250 VAC (Resistive load) 2.5 A at 250 VAC (PF0.4) 6 A at 30 VDC (Resistive load) 2 A at 30 VDC (L/R=7 ms)
G2RV-ST500-AP G2RV-ST700-AP	1c	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	0.05 A at 30 VAC (Resistive load) 0.05 A at 36 VDC (Resistive load)

Reference Data

Endurance curve (N.O. side)



Switching capacity of DC resistive load



G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST

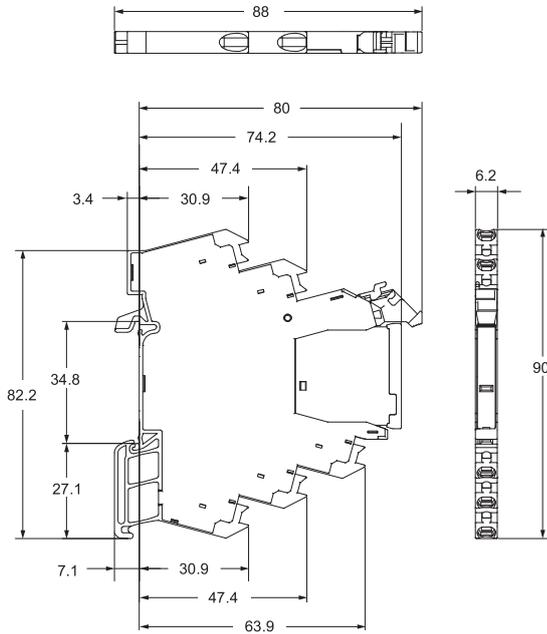
Dimensions

(unit: mm)

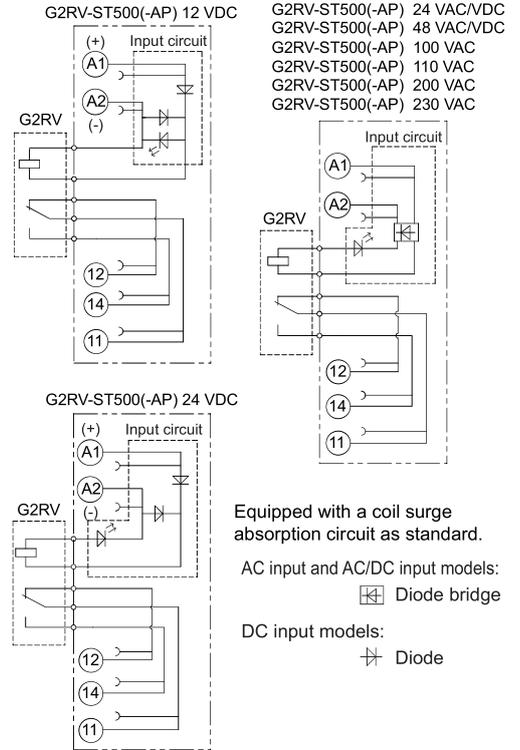
Slim I/O Relay + socket
Push-In Plus Terminal Block

Models without latching lever (without test switch)

G2RV-ST500
G2RV-ST500-AP



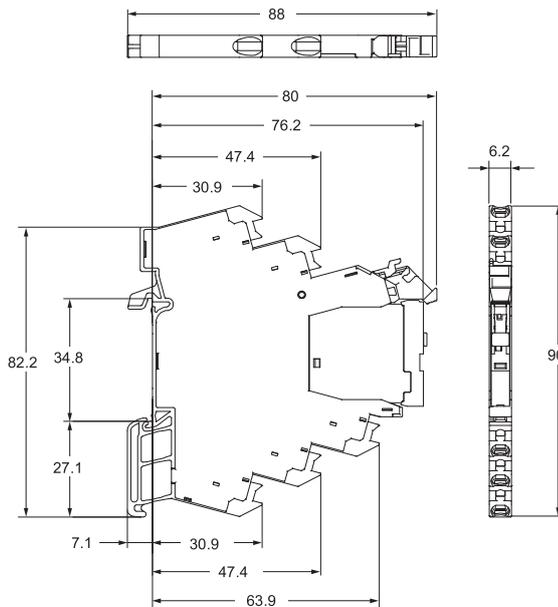
Terminal Arrangement/Internal Connection Diagram (TOP VIEW)



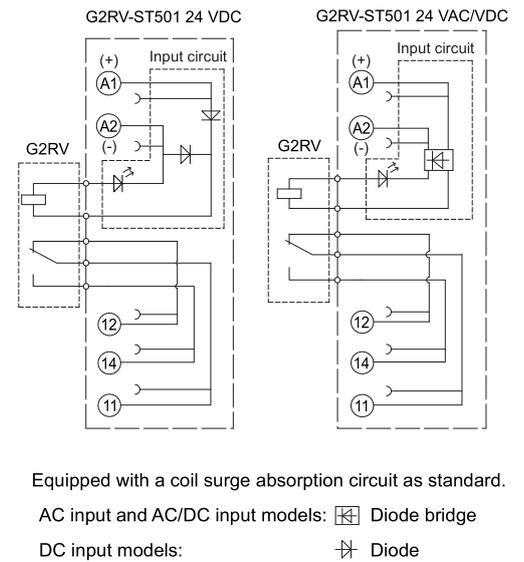
Note: For recommended ferrules, crimp tools, and types and gauges of wires, refer to 3. Recommended Ferrules and Crimp Tools on page 26.

Models with latching lever (with test switch)

G2RV-ST501



Terminal Arrangement/Internal Connection Diagram (TOP VIEW)



Note: For recommended ferrules, crimp tools, and types and gauges of wires, refer to 3. Recommended Ferrules and Crimp Tools on page 26.

G2RV-ST

G3RV-ST

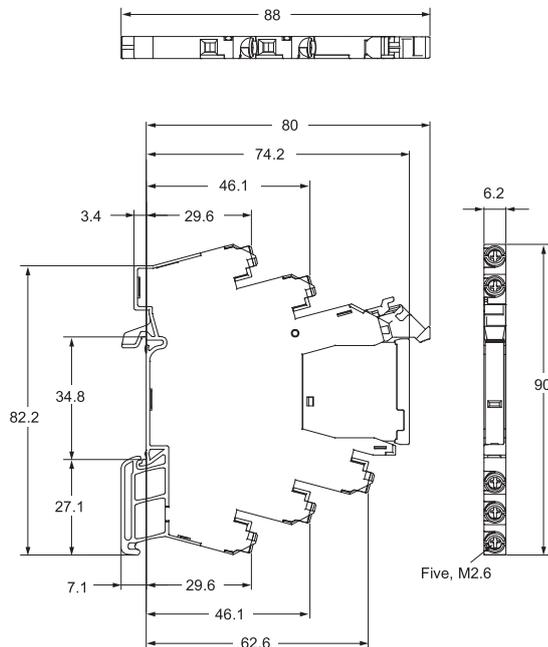
Common Precautions

Common Accessories

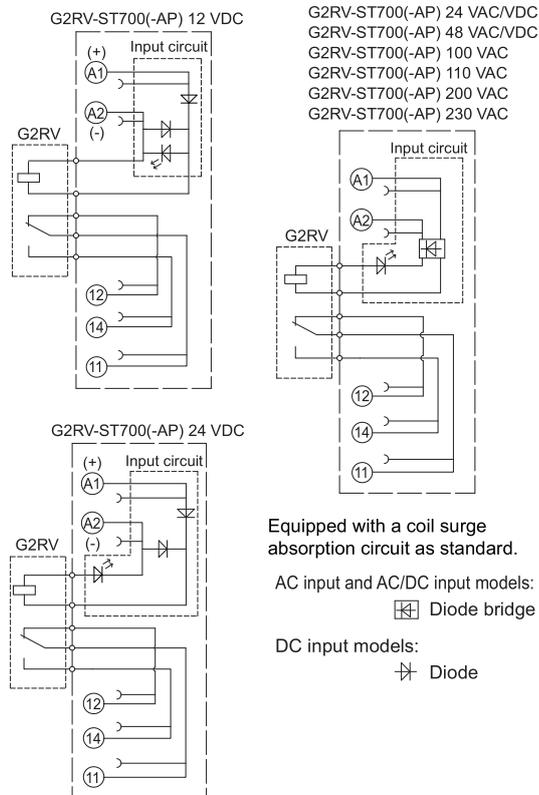
Screw terminal

Models without latching lever (without test switch)

G2RV-ST700
G2RV-ST700-AP



Terminal Arrangement/Internal Connection Diagram (TOP VIEW)



G2RV-ST

G3RV-ST

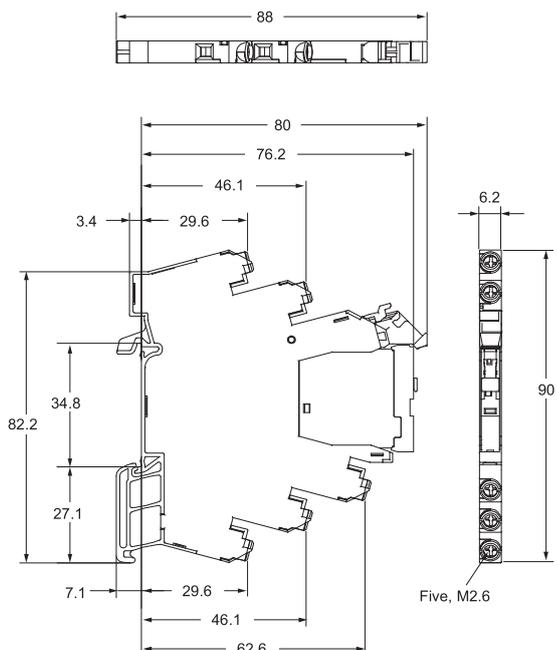
Common Precautions

Common Accessories

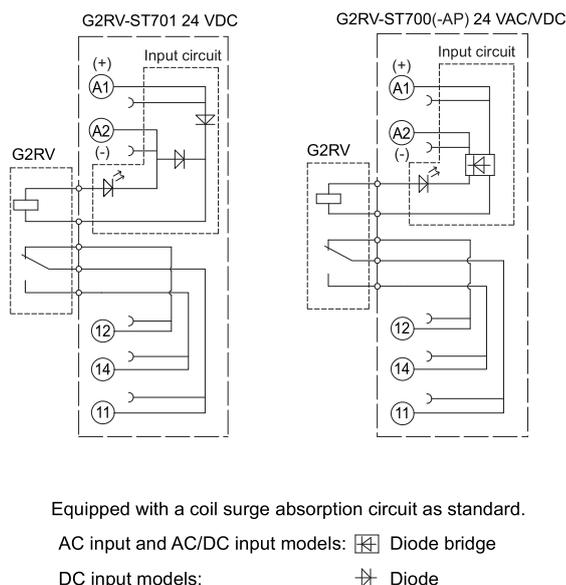
Note: For recommended ferrules, crimp tools, and types and gauges of wires, refer to 3. Recommended Ferrules and Crimp Tools on page 26.

Models with latching lever (with test switch)

G2RV-ST701



Terminal Arrangement/Internal Connection Diagram (TOP VIEW)

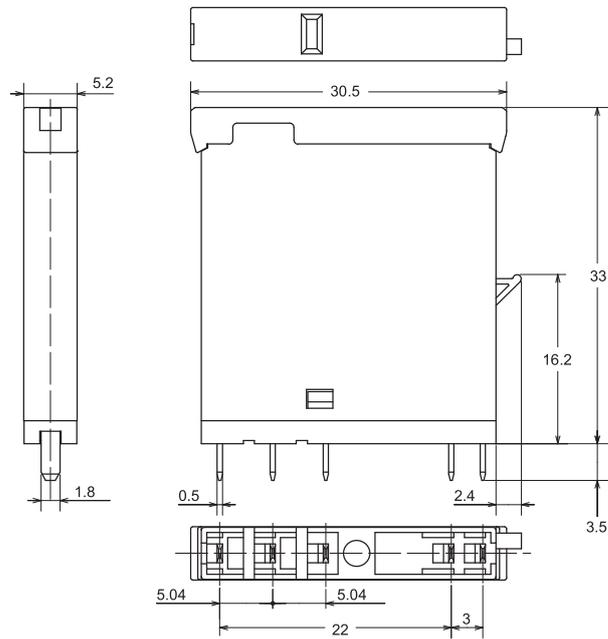


Note: For recommended ferrules, crimp tools, and types and gauges of wires, refer to 3. Recommended Ferrules and Crimp Tools on page 26.

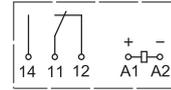
G2RV-ST

Relay for maintenance

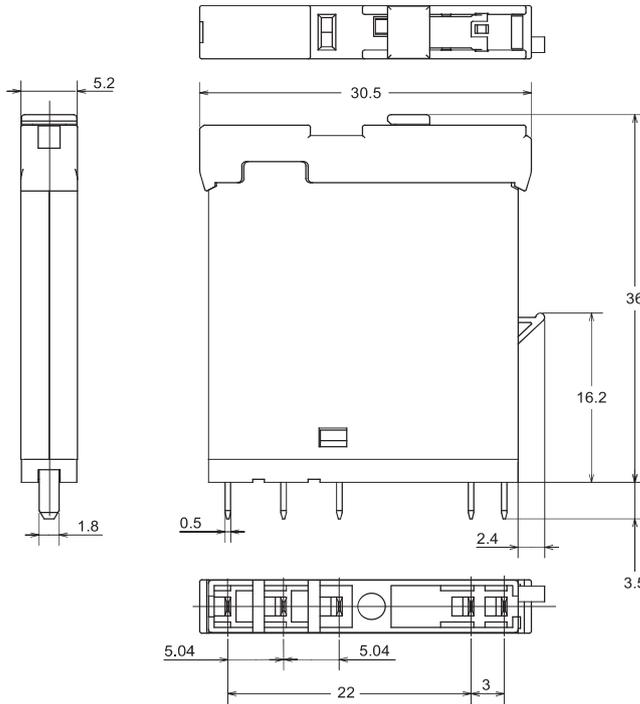
Models without latching lever
G2RV-1-S-G
G2RV-1-S-AP-G



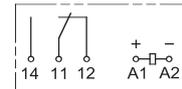
Terminal Arrangement/
Internal Connection Diagram
(TOP VIEW)



Models with latching lever (test switch)
G2RV-1-SI-G



Terminal Arrangement/
Internal Connection Diagram
(TOP VIEW)



G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

Safety Precautions

Be sure to read the *Safety Precautions for All Relays* in the website at the following URL:
<http://www.ia.omron.com/>.

Format of Warning Indications

 WARNING	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally, there may be significant property damage.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Safe Use	Indicates supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Includes operating precautions to ensure that the product will operate properly and that performance and functions will not be adversely affected.

Meaning of Graphic Symbols for Ensuring Product Safety

	Indicates the possibility of electric shock under specific conditions.
	Used for general CAUTION, WARNING, or DANGER precautions for which there is no specified symbol. (This symbol is also used as the alerting symbol, but shall not be used in this meaning on the product.)
	Indicates the possibility of explosion or rupture under specific conditions.
	Indicates the possibility of injuries by high temperature under specific conditions.

 **WARNING**

Ensure that the socket is not charged during wiring and maintenance. Not doing so may result in electric shock.



Do not touch the terminal section of the G2RV-ST or the surrounding area while the power is being supplied. Doing so may result in electric shock.



 **CAUTION**

Minor electrical shock may occasionally occur. Do not touch the G3RV terminal section (i.e., current carrying parts) while the power is being supplied.



The G3RV may 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.



Minor electrical shock may occasionally occur. Do not touch the main circuit terminals on the G3RV immediately after the power supply has been turned OFF.

Shock may result due to the electrical charge stored in the built-in snubber circuit.
 Note: G3RV-202S(L), G3RV-ST500/700-A(L) series models only



Minor burns may occasionally occur. Do not touch the G3RV or the heat sink while the power is being supplied or immediately after the power supply has been turned OFF. The G3RV becomes extremely hot.



Provide a space of at least 3 mm or place an insulating plate (P2RV-P3.1ST) between the G2RV-ST or G3RV-ST and ground and other adjacent components. Not doing so may result in an electric shock.



When mounting the G2RV-ST or G3RV-ST with its input and output opposite to the input and output of an adjacent product, provide a space of at least 3 mm or place an insulating plate (P2RV-P3.1ST) between them.



Precautions for Safe Use

Transport

- Do not use the product if it has been dropped on the ground. Dropping the product may adversely affect performance.
- Do not drop the product 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 the product without it being packaged. Doing so may result in damage, malfunction, or failure.
- Do not transport the G3RV under the following conditions. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
 - High temperature, high humidity conditions
 - Conditions such as temperature change that causes rapid condensation
 - Condition where it is not packaged

Operating and Storage Environments

- Do not use or store the product in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
 - Storage in locations subject to ambient temperature outside the range -40 to 70°C (for G2RV) and -30 to 100°C (for G3RV), and usage in locations subject to ambient temperature outside the range -40 to 55°C (for G2RV) and -30 to 55°C (for G3RV).
 - Locations subject to relative humidity outside the range 5% to 85% (for G2RV) and outside the range 45% to 85% (for G3RV).
 - Locations subject to high temperature or high humidity.
 - Conditions such as temperature change that causes rapid condensation
 - Locations where corrosive gases or flammable gases are present
 - Location where rainwater or water droplets gets splashed
 - Location with splashes of water, oil, and chemicals, etc.
 - Locations with much dust, salt, and iron powder
 - Location with blockers
 - Where static electricity or noise occurs
 - Where strong electromagnetic field is generated
 - Where there is a risk of exposure to radioactivity
 - Storage in a state with a load applied to the product
 - Locations subject to ultraviolet rays from direct sunlight
- Do not use or store Sockets in environments that contain silicone gas, sulfidizing gas (e.g., SO₂ or H₂S), or organic gas, or near materials that contain silicone. Doing so may cause the contacts to be unstable or to fail.

Handling <G3RV>

- Keep the G3RV well ventilated. There is a risk of short-circuiting or burning due to G3RV overheating.

Mounting

- Before you start wiring, please make sure that the socket is securely attached to the mounting rail. If the socket is unstable, it may come loose and risk of injury towards the workers.
- Please insert the flat-blade screwdriver to the bottom of the hole. If you do not insert the flat-blade screwdriver correctly, the cable will not be connected correctly.
- When lubricant such as oil is attached to the tip of the driver, the driver will fall off, with a risk of injury towards the workers.

- When replacing a relay, set the stopper to the unlocked state and then eject the relay with the ejector lever. In addition, press the stopper after replacement to change the state from unlocked to locked.



Locked state



Unlocked state

- To operate the stopper, you can change the state from locked to unlocked by gripping the stopper protruding part with the recommended needle-nose pliers. (Needle-nose pliers with a tip shape that is 4 mm wide or less and 3 mm thick or less.)
- Do not use cutting nippers to operate the stopper. Doing so may damage the stopper.



- If the stopper is operated with an exceedingly strong force, the stopper protruding part may be damaged and the stopper may drop out. Since the function of the stopper is to fix the ejector lever, use as a product is possible even in the event that the stopper is damaged or drops out because the functionality is satisfied even without a stopper in respect to vibrations and impacts.

Usage

- Please select the load within the rated range. Doing so may result in damage, malfunction, or failure.
- Please use the power of the rated frequency. It may cause malfunction, failure, or risk of burnout.

<G3RV>

- Install G3RV according to instructions *Mounting* on page 28. If you install in the wrong direction, abnormal heat is generated, and may lead to short-circuiting or burning the output element.
- G3RV is an SSR that generates heat. Please observe the ambient temperature setting range of G3RV. If installing in an enclosed space, set a fan, and ventilate.
- When mounting G3RV to DIN rail, firmly fits into the groove. If it is not properly installed, there is a risk of it falling.

Wiring

- For the current to be applied, make sure a wire size with margin is used. Otherwise, excessive heat generated by the wires may cause burning.
- Do not attempt to use the wire if the coat is torn. Not doing so may result in electric shock.
- Always turn OFF the power supply before performing wiring. Not doing so may cause electrical shock.

<G3RV>

- The wires of the socket for G3RV socket should not be passed through the same duct as that being connected to the high-voltage power supply. Otherwise, inductive noise may damage the G3RV or cause it to malfunction.

Push-In Plus Terminal Block

- 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 the 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, confirm wire ratings and use the wiring materials given in the following table. *

Recommended Wire (UL and EN standard certification)	Stripping length
0.5 to 2.5 mm ² / AWG20 to AWG14 stranded wire, 0.5 to 2.5 mm ² / AWG20 to AWG14 solid wire	8 to 10 mm

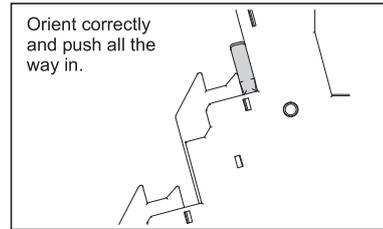
* The recommended wire gauge and stripping length values are for stranded wire or solid wire. When using ferrules, refer to the table of recommended ferrules in Precautions for Correct Use.

Disposal

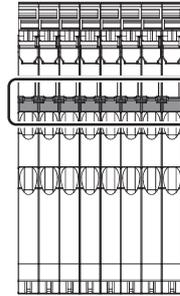
- When disposing of the product, do not put into the fire.

Precautions for Correct Use

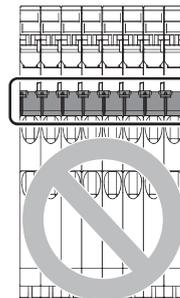
- Do not use or store the product in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
 - Where vibration or shock is directly transmitted to the body
 - Where the socket could come into contact with a solvent or alkaline agent
- When installing the short bar, insert it into the insertion hole, and insert until all terminals are all the way in.



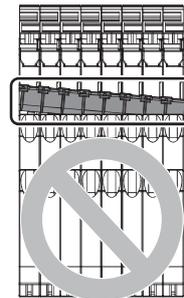
Completely inserted
All terminals are inserted all the way in.
Correct



Incomplete insertion
All terminals are not inserted all the way in.
Incorrect



Incorrect installation
Some terminals not inserted completely.
Incorrect



- To remove the short bar, insert a screwdriver beneath the hole on top of the short bar and lift up. Start lifting up from either end, lift up all screwdriver in order, and then remove the short bar.
- When removing the short bar while the product is mounted in a control panel or on equipment, make sure there is enough space to use the screwdriver.
- Remove the short bar with the wiring disconnected.



- If using a short bar, install the short bar before performing wiring work.
- A push-in Plus terminal block type and a screw terminal type have different insertion positions, so a mixed installation using the same short bar is not possible.
- Do not insert short bar in the hole for wire or screw driver, it may cause the result of failure of pull out.
If insert short bar in the hole for wire or screw driver and try to pull out, it may cause damage for short bar or socket and failure in electric conductivity.
- Please insert P2RVC terminal into the short bar insertion hole of G2RV-ST/G3RV-ST. If insert P2RVC into the release hole or terminal (insertion) hole wrongly, P2RVC may stuck and can not remove and it may cause result of damage on P2RVC and G2RV-ST/G3RV-ST.
Please turn off the power of input and output side and remove PLC interface unit when replacing mounting relays and SSRs for maintenance.
- When replacing relays, there is a possibility the relay will pop out and fall. Take care to prevent the relay from falling during replacement.
- When replacing a relay, remove it by tilting it to the left as shown in the figure below because the protrusion to prevent pop-out relay will get in the way.



- Dedicated accessories for G2RV-SR/G3RV-SR are not compatible and cannot be used.

Short Bars

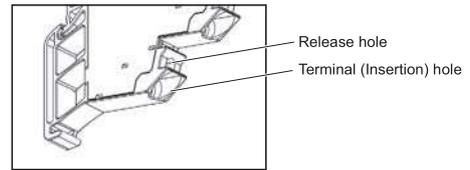
- PYDN-6.2-020□
- PYDN-6.2-030□
- PYDN-6.2-040□
- PYDN-6.2-100□
- PYDN-6.2-200□

PLC interface unit

- P2RVC-8-I-5-1
- P2RVC-8-I-5
- P2RVC-8-I-7-1
- P2RVC-8-O-5-1
- P2RVC-8-O-5
- P2RVC-8-O-7-1

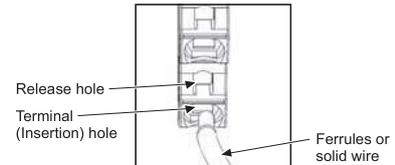
Push-In Plus Terminal Block

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.

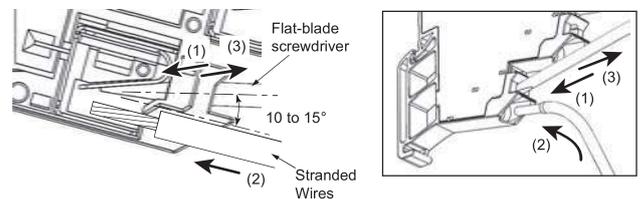


- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

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.



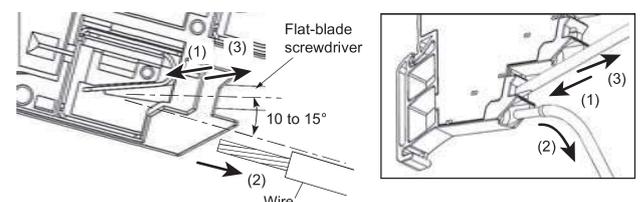
Checking Connections

- 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.

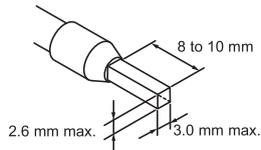


3. Recommended ferrules and Crimp Tools

Recommended ferrules

Applicable wire		Ferrules Conduct length (mm)	Stripping length (mm) (Ferrules used)	Recommended ferrules		
(mm ²)	(AWG)			Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	10	AI 0,25-8	H0.25/12	216-301
		10	12	AI 0,25-10	---	---
0.34	22	8	10	AI 0,34-8	H0.34/12	216-302
		10	12	AI 0,34-10	---	---
0.5	20	8	10	AI 0,5-8	H0.5/14	216-201
		10	12	AI 0,5-10	H0.5/16	216-241
0.75	18	8	10	AI 0,75-8	H0.75/14	216-202
		10	12	AI 0,75-10	H0.75/16	216-242
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203
		10	12	AI 1-10	H1.0/16	216-243
1.25/1.5	17/16	8	10	AI 1,5-8	H1.5/14	216-204
		10	12	AI 1,5-10	H1.5/16	216-244
2.0/2.5	14	10	12	AI 2,5-10	H2.5/16DS	
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

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

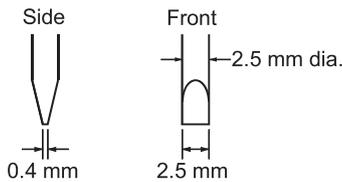


3. If you use AWG24 to AWG22 (0.25 to 0.34 mm²) wires, UL and TÜV certification will not apply.

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).

Screw Terminal

• Screw terminal

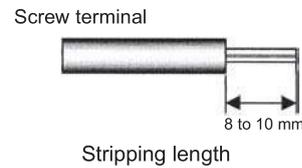
Wired type	Applicable wire size	Stripping length
Stranded wires, without ferrule	0.5 to 2.5 mm ²	8 to 10 mm
Stranded wires, with ferrule and plastic collar		
Stranded wires with ferrule, without plastic collar		
Single wire		

• Tightening Torque

0.36 to 0.46 N • m

• Electric wiring

Use the electric wire of specified size as shown above. The length of the that is not covered is 8 to 10 mm.

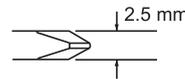


Recommended Flat-blade Screwdriver/ Phillips Screwdriver

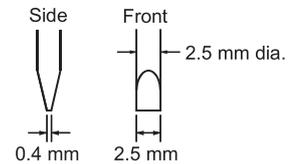
Use a Phillips screwdriver or flat-blade screwdriver to remove the product from a DIN rail and connect and remove the electric wires. Use a Phillips screwdriver with the shape specified below and a flat-blade screwdriver in the table below.

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

Recommended Phillips Screwdriver



Recommended Flat-blade Screwdriver

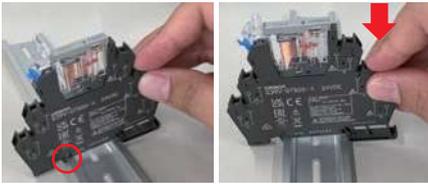


Model	Manufacturer
ESD 0,40×2,5	Wera
SZS 0,4×2,5 SZF 0-0,4×2,5 *	Phoenix Contact
0,4×2,5×75 302	Wiha
AEF.2,5×75	Facom
210-719	Wago
SDI 0,4×2,5×75	Weidmuller

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

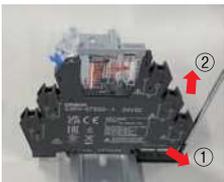
Mounting Method

To mount the product to a DIN rail, hook one side of the socket and then press the socket onto the DIN rail.



Removal Method

To remove the product from the DIN rail, catch the tip of a screwdriver in the hook and then move the screwdriver so that the tip moves in the directions indicated by the arrows.



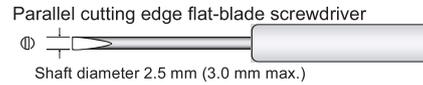
<G2RV>

Operating latching lever (test switch)

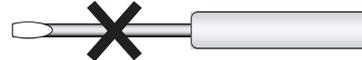
When operating the latching lever for G2RV-ST701/501 series, use a 2.5 mm width flat-blade screwdriver.

- **Applicable flat-blade screwdriver**

Flat-blade screwdriver with parallel cutting edge: shaft diameter 2.5 mm (3.0 mm max.)



Wide flat-blade screwdriver



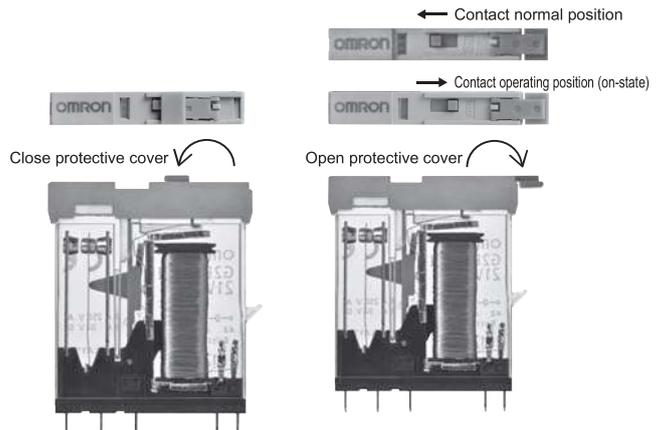
Driver with a thick shaft cannot be used.

- Always turn OFF the power supply before operating latching lever.
- Return to its original state after using the latching lever.
- Do not use the latching lever as a switch.
- Operation durability of the latching lever is 100 times or more.
- Do not keep the latching lever ON for a long period of time (24 hours or more) in order to maintain the operation check function.

Method of operation of the latching lever (test switch)

<Protective cover: locked>

<Protective cover: disengage>



Keep the protective cover open when using the latching lever. Move until the latching lever clicks to the ON position (ON state). After use latching lever, in order to prevent malfunction, return the switch to contact normal position (OFF state), and make sure the protective cover is firmly closed.

Using the latching lever

Example: check the operation of the relay and the sequence circuit

Input ratings

Smoothing capacitors are used in the internal circuits of AC/DC-type G2RV-ST devices. AC/DC-type G2RV-ST devices driven by the sensor may not operate normally due to the characteristics of the smoothing capacitor. When driving such devices by the sensor, use the DC specification settings.

G2RV-ST/G3RV-ST

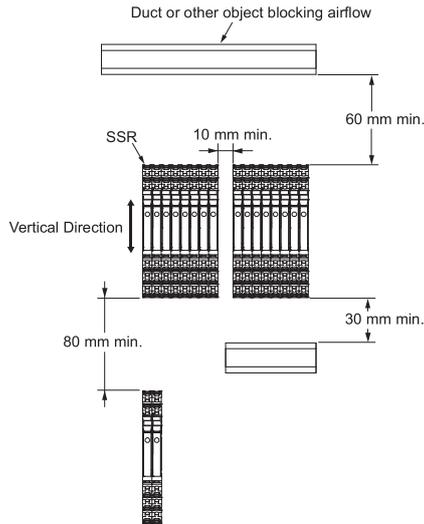
G2RV-ST

<G3RV>

- Since the G3RV uses electronic components, do not allow it to fall, vibrate, or apply shock that exceeds the criteria. Doing so may result in failure, malfunction, or deterioration of performance.
- Tighten screw terminal for G3RV at torque 0.36 to 0.46 N · m. It may cause short-circuit failure or burning.
- Please use the voltage and current suitable for the input and output terminal portion of G3RV. It may cause short-circuit failure or burning.

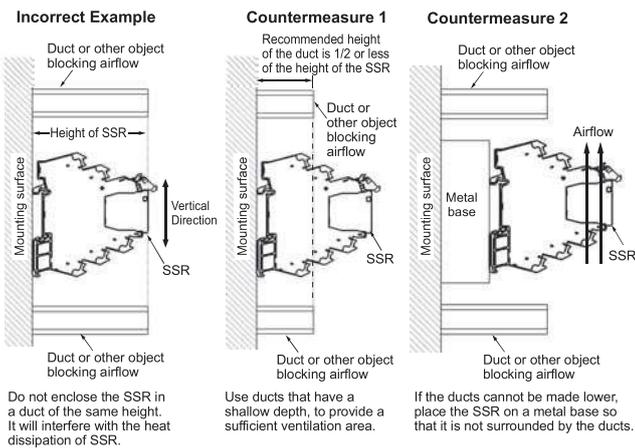
Mounting

<The SSR Mounting Pitch (Panel Mounting)>



- * When over eight are installed, install with 10 mm space between each.
- * Please ask distributor or sales when need assistance in detail of mounting pitch.

<Relationship of SSR and duct (duct depth)>

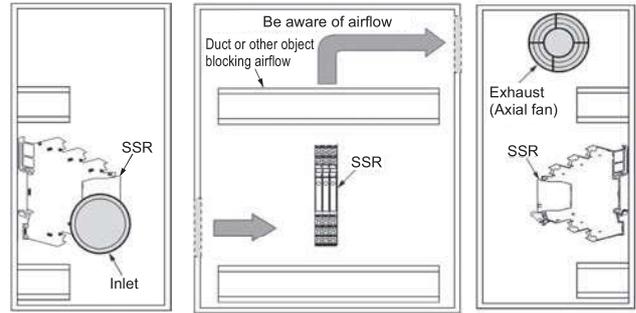


G3RV-ST

Common Precautions

Common Accessories

<Ventilation Outside the Control Panel>



- If the air inlet or air outlet has a filter, clean the filter regularly to prevent it from clogging to ensure an efficient flow of air.
- Do not place objects that may obstruct the proper ventilation for outside or inside the inlet or exhaust port, and in the outside vicinity.
- A heat exchanger, if used, should be located in front of the G3RV to ensure the efficiency of the heat exchanger.
- Please observe the ambient temperature of G3RV. The rated current of the G3RV is measured at an ambient temperature of 25°C.
- The G3RV uses a semiconductor in the output element. This causes the temperature inside the control panel to increase due to heating resulting from the flow of electrical current through the load. The G3RV reliability can be increased by adding a ventilation fan to the control panel to dispel this heat, thus lowering the ambient temperature of the G3RV. (It suggests that life expectancy is doubled by each 10°C reduction in ambient temperature.)

EMI

The G3RV is a Class A product (for industrial environments). When used in a residential environment, it may cause radio interference. In such case, the user may be required to take appropriate measures.

**For G2RV-ST/G3RV-ST
Common Accessories (order separately)**

Ordering Information

Short Bars

Appearance	Pitch	No. of poles	Colors	Model #1	Minimum order (Quantity)	Maximum energizing current
	6.2 mm	20	Red (R), Blue (S), Yellow (Y)	PYDN-6.2ST-200□	10 *2	32 A

Note: Use for wiring to the adjacent socket.

*1. Replace the box (□) in the model number with the code for the covering color. □ color selection: R = red, S = blue, Y = yellow

*2. Short bars come in bags of 10.

Label

Model	Manufacturer	Minimum order (Box) (quantity per box)
MG-CPM-04 41390N	Cembre	Box 1,680 pieces (35 sheet / 48 pieces)
XW5Z-P2.5LB1	Omron	Sheet 360 pieces (5 sheet / 72 pieces)

Note: PRINTER: MARKINGENIUS MG3 (Ask to your Omron contact for more details on printers)

Separate Plate

Appearance	Model
	XW5Z-EP12

Isolation plate

Appearance	Model
	P2RV-P3.1ST

PLC interface unit

Appearance	I/O classification	Connection method	Common process	Applicable Models *1	Model
	For input	Push-In	PNP	G2RV-ST500-AP *2	P2RVC-8ST-I-5-1
			NPN		P2RVC-8ST-I-5
		Screw	PNP	G2RV-ST700-AP *2	P2RVC-8ST-I-7-1
			NPN		
	For output	Push-In	PNP	G3RV-ST500(-D)/(-D-H)/ (-A)/(-AL) or G3RV-ST500 series *3	P2RVC-8ST-O-5-1
			NPN		P2RVC-8ST-O-5
	Screw	PNP	G3RV-ST700(-D)/(-D-H)/ (-A)/(-AL) or G3RV-ST500 series *3	P2RVC-8ST-O-7-1	

*1. Please make sure applicable models, P2RVC can not be used other combination than the above table.

*2. The maximum contact voltage is 30 VAC/DC.

*3. Operating coils are only available in 12 and 24 VDC and 24 VAC/DC.

Parts for DIN Track Mounting

Appearance	Type	Model	Minimum order (Quantity)
	DIN Tracks	1 m	1
		0.5 m	
	End Plate *	PFP-M	10
	Spacer	PFP-S	

* When mounting DIN Track, please use End Plate (PFP-M).

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

G2RV-ST/G3RV-ST

Applicable Cables

Name		Appearance	Cable length L (mm)	Connecting Cables	Applicable Connectors
G2RV-ST Cables with Loose Wires P2RV-A□C	8 I/O points		1,000	P2RV-A100C	Various devices
			2,000	P2RV-A200C	
			3,000	P2RV-A300C	
			5,000	P2RV-A500C	
G3RV-ST OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□C	32 output points		1,000	P2RV-4-100C	PLC I/O Units with MIL connectors (1:4) CJ1W-OD232/OD262, etc.
			2,000	P2RV-4-200C	
			3,000	P2RV-4-300C	
			5,000	P2RV-4-500C	
G3RV-ST OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IMC	32 input points		1,000	P2RV-4-100IMC	PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. *1
			2,000	P2RV-4-200IMC	
			3,000	P2RV-4-300IMC	
			5,000	P2RV-4-500IMC	
Common Precautions OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC	32 input points		1,000	P2RV-4-100IFC	PLC I/O Units with Fujitsu/Otax connectors (1:4) CJ1W-ID231/ID261, etc. *2
			2,000	P2RV-4-200IFC	
			3,000	P2RV-4-300IFC	
			5,000	P2RV-4-500IFC	
Common Precautions OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR NX	8 output points		500	P2RV-A050C-OMR NX	PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-OD4256
	8 input points		1,000	P2RV-A100C-OMR NX	
			500	P2RV-A050IC-OMR NX	
			1,000	P2RV-A100IC-OMR NX	

*1. Use the P2RVC-8ST-I□-1(PNP) as the PLC interface unit when connecting to the CJ1W-ID232/ID262 (or a unit with an equivalent terminal arrangement).

*2. Use the P2RVC-8ST-I□-1(PNP) as the PLC interface unit when connecting to the CJ1W-ID231/ID261 (or a unit with an equivalent terminal arrangement).

G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

Name	Appearance	Cable length L (mm)	Connecting Cables	Applicable Connectors	
Schneider Electric PLC Connecting Cables P2RV-□C-SCH-□		500	P2RV-050C-SCH-A	Schneider Electric PLCs with 32-point connectors (1:4) For inputs: 140 DDI 353 00 For outputs: 140 DDO 353 00	
		1,000	P2RV-100C-SCH-A		
		2,000	P2RV-200C-SCH-A		
		3,000	P2RV-300C-SCH-A		
		5,000	P2RV-500C-SCH-A		
		32 output points	500		P2RV-050C-SCH-B
			1,000		P2RV-100C-SCH-B
			2,000		P2RV-200C-SCH-B
			3,000		P2RV-300C-SCH-B
			5,000		P2RV-500C-SCH-B
	16 input points		500	P2RV-050C-SCH-C	Schneider Electric PLCs with 16-point connectors (1:2) For inputs: BMX DDI 1602 For outputs: BMX DDO 1602
		1,000	P2RV-100C-SCH-C		
		2,000	P2RV-200C-SCH-C		
		3,000	P2RV-300C-SCH-C		
		5,000	P2RV-500C-SCH-C		
		16 output points	500	P2RV-050C-SCH-D	
1,000			P2RV-100C-SCH-D		
2,000			P2RV-200C-SCH-D		
3,000			P2RV-300C-SCH-D		
5,000			P2RV-500C-SCH-D		
Siemens PLC Connecting Cables P2RV-□C-SIM-□			500	P2RV-050C-SIM-A	Siemens PLCs with 32-point connectors (1:4) For inputs: 6ES7 321-1BL00-0AA0 For outputs: 6ES7 322-1BL00-0AA0
		1,000	P2RV-100C-SIM-A		
		2,000	P2RV-200C-SIM-A		
		3,000	P2RV-300C-SIM-A		
		5,000	P2RV-500C-SIM-A		
		32 output points	500	P2RV-050C-SIM-B	
			1,000	P2RV-100C-SIM-B	
			2,000	P2RV-200C-SIM-B	
			3,000	P2RV-300C-SIM-B	
			5,000	P2RV-500C-SIM-B	
	16 input points		500	P2RV-050C-SIM-C	Siemens PLCs with 16-point connectors (1:2) For inputs: 6ES7 321-1BH02-0AA0
		1,000	P2RV-100C-SIM-C		
		2,000	P2RV-200C-SIM-C		
		3,000	P2RV-300C-SIM-C		
		5,000	P2RV-500C-SIM-C		
		32 input points	500	P2RV-050C-SIM-D	
1,000	P2RV-100C-SIM-D				
2,000	P2RV-200C-SIM-D				
3,000	P2RV-300C-SIM-D				
5,000	P2RV-500C-SIM-D				
32 output points	500		P2RV-050C-SIM-E		
	1,000		P2RV-100C-SIM-E		
	2,000		P2RV-200C-SIM-E		
	3,000		P2RV-300C-SIM-E		
	5,000		P2RV-500C-SIM-E		

G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST/G3RV-ST

PLC interface unit

Ratings / characteristics

Rated insulation voltage		30 VAC/DC *
Rated current		0.5 A/poles, 2 A/unit
Ambient operating temperature		-40 to 55°C
Vibration resistance	Destruction	10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm)
	Malfunction	10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm)
Shock resistance	Destruction	300 m/s ²
	Malfunction	100 m/s ²

* DC voltage is limited to 30 V.

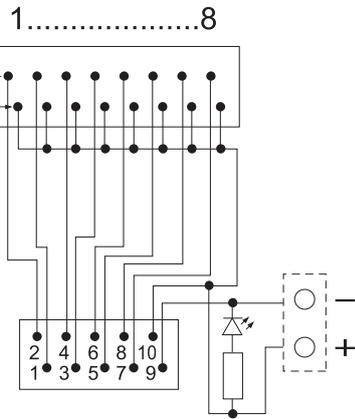
Electrical schematic

Input

P2RVC-8ST-I-□-1 (PNP)

Number on P2RVC

Terminal layout
(viewed from top of product)

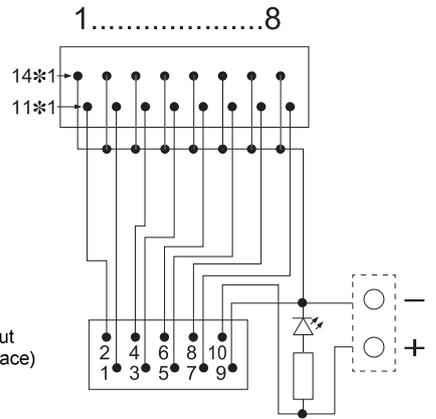


Connector pin (male) layout
(viewed from gripping surface)

P2RVC-8ST-I-5 (NPN)

Number on P2RVC

Terminal layout
(viewed from top of product)



Connector pin (male) layout
(viewed from gripping surface)

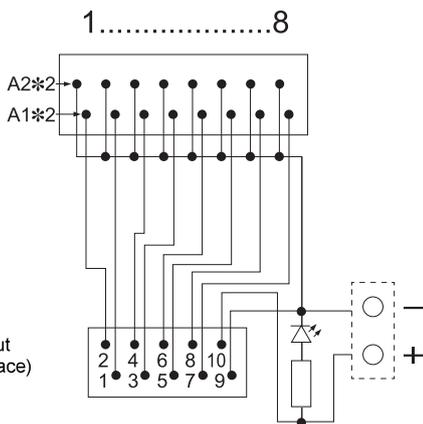
*1. Terminal numbers on G2RV-ST

Output

P2RVC-8ST-O-□-1 (PNP)

Number on P2RVC

Terminal layout
(viewed from top of product)

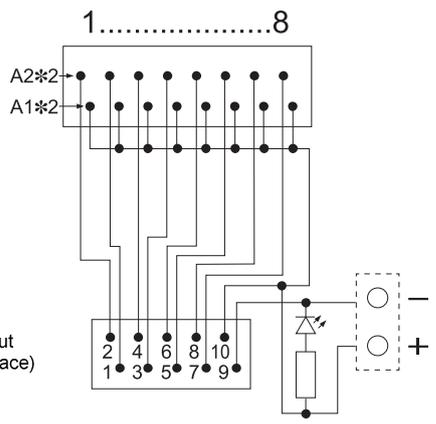


Connector pin (male) layout
(viewed from gripping surface)

P2RVC-8ST-O-5 (NPN)

Number on P2RVC

Terminal layout
(viewed from top of product)



Connector pin (male) layout
(viewed from gripping surface)

*2. Terminal numbers on G2RV-ST/G3RV-ST

G2RV-ST

G3RV-ST

Common Precautions

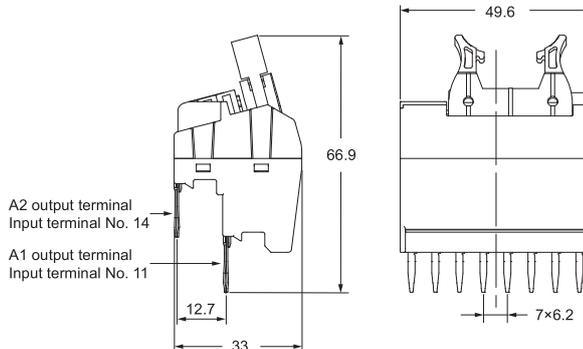
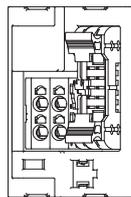
Common Accessories

Dimensions

PLC interface unit

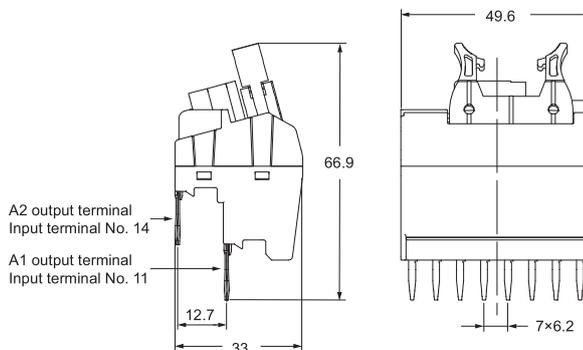
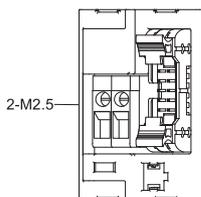
Push-IN

P2RVC-8ST-I-5(-1)
P2RVC-8ST-O-5(-1)



Screw

P2RVC-8ST-I-7-1
P2RVC-8ST-O-7-1



G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST/G3RV-ST

(Except for PLC interface unit)
Common Accessories (order separately)

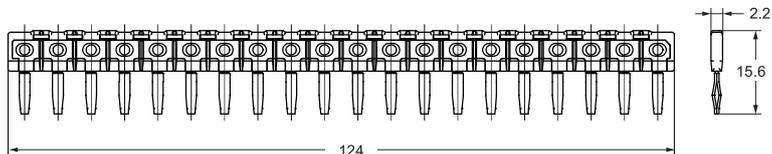
G2RV-ST

Dimensions

(unit: mm)

Short Bars

PYDN-6.2ST-200□



Pitch	No. of poles	L (Length)	Colors	Model *	Maximum carry current
6.2 mm	20	124	Red (R) Blue (S) Yellow (Y)	PYDN-6.2ST-200□	32 A

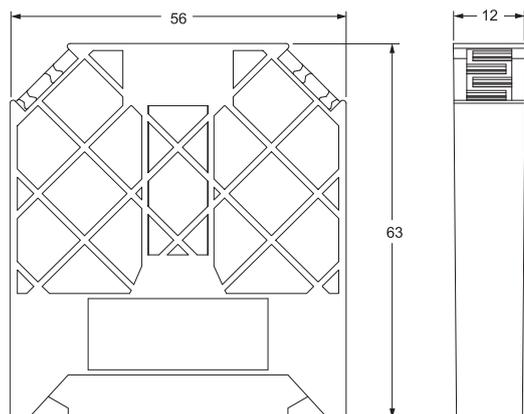
Note: Use the Short Bars for crossover wiring within one Socket or between Sockets.

* Replace the box (□) in the model number with the code for the covering color.

G3RV-ST

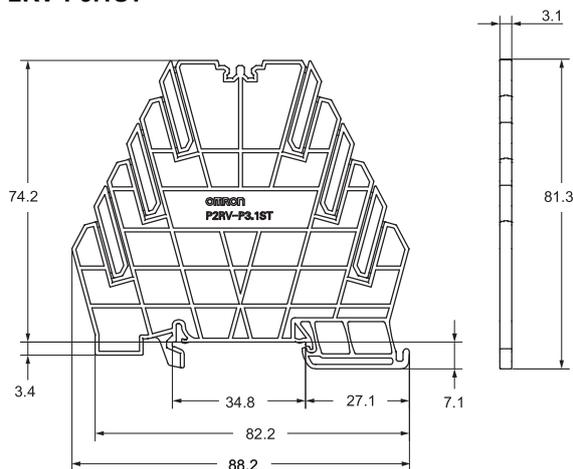
Separate Plate

XW5Z-EP12



Isolation plate

P2RV-P3.1ST



Common Precautions

Parts for DIN Track Mounting

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

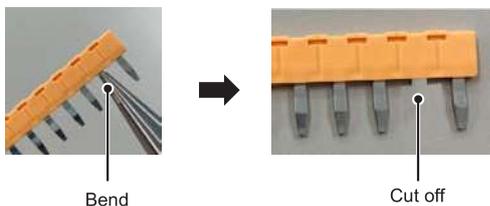
Common Accessories

Safety Precautions

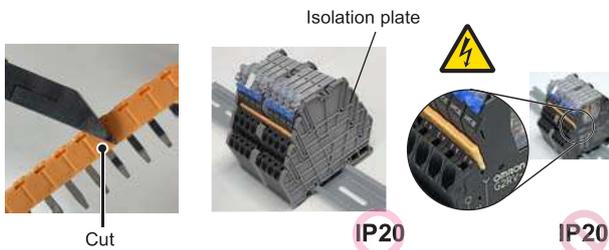
Precautions for Correct Use

When mounting a short bar

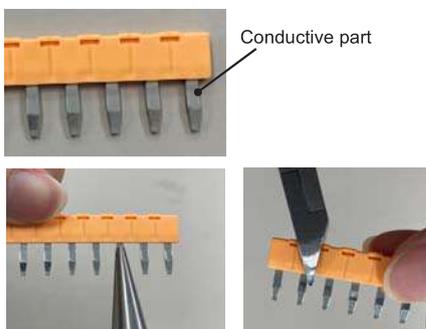
- Intermediate pins can be bent by a tool and cut off for use.



- The short bar can be cut to as many poles as needed. Insert the tool from the plastic part side, and cut along the groove in the plastic part between the terminals. When cutting, take care not to break or deform the terminals. However, since the metal on the cut surface will be exposed, human safety and insulation countermeasures between adjacent products must be ensured. Such countermeasures include using insulating plate model P2RV-P3.1-ST or taking an equivalent insulation countermeasure.



- When cutting the short bar or its pins, do not touch the conductive part. If the conductive part is deformed, contact failure may result.
- When cutting the product, check that there is no person nearby and take care that a cut off piece does not fly off.



Using an isolation plate and short bar together

- Using two isolation plates makes it possible to configure the same 6.2 mm pitch used by slim relays and short bars.
- When using a short bar with two isolation plates, cutting the joining parts of the isolation plate make it possible to use the short bar without cutting the conductive part.
- The joining parts of the isolation plate can be easily cut using needle-nose pliers.
- Cut the joining parts for a single isolation plate at a time.

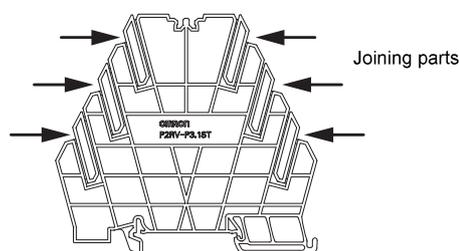
Connecting two isolation plates with a short bar



Isolation plate



- After mounting to a DIN rail, check that the product is correctly held in place.



G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST

Removing the PLC interface

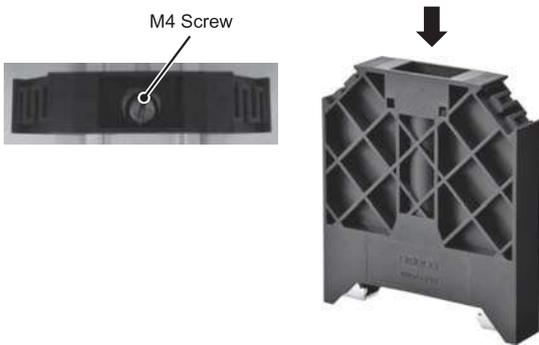
- To remove the PLC interface, place a finger at the location indicated below and pull out the interface.



G3RV-ST

Mounting a separate plate

- Use a flat-blade screwdriver to tighten the center top screw and secure the plate. Loosen the screw to remove the plate from the DIN rail.



Common Precautions

Common Accessories

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