

# Slim I/O Relays G2RV-SR/G3RV-SR

## Global standard size, low profile slim (6.2 mm width) I/O relays

- 25% lower profile than conventional products, contributing to a smaller control panel.
- Push-In Plus terminal blocks reduce wiring work by 60%\* compared to conventional screw terminals.
- ‘Hand-free’ structure that holds an inserted flat-blade screwdriver to achieve easier wiring work for stranded wires.
- Electromechanical relays (G2RV-SR) and solid state relays (G3RV-SR) are available.
- Screw terminal terminal block models are available.
- Plug-in terminal has strong mechanical pins that do not bend.

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

G2RV-SR:   

G3RV-SR:   



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

 Refer to *Safety Precautions* on page 20.

## Slim I/O Relay Types

G2RV-SR series mounted relay: electromagnetic relay ..... from page 2

G3RV-SR series mounted relay: solid state relay ..... from page 10

## Common matter

Common precautions ..... from page 20

Common accessories (order separately)..... page 24

# Slim Electromechanical I/O Relay

# G2RV-SR

## Global standard size, low profile, slim (6.2 mm width) I/O relay



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

Refer to *Safety Precautions* on page 20.

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

## Features

### Standard model/Micro load

- Terminal x 5
- Push-in
- Screw
- Release lever
- Operation display LED (Socket section)
- Mechanical indicator
- Operation verification which is linked to the contact



### With latching lever (Test switch)

- Protective cover (Locked condition)
- Latching lever (Test switch)
- Circuit check operation Confirmation, reducing the inspection effort
- Protective cover (Released state)
- Latching lever (Test switch)

**PAT**

"Foreign matter intrusion prevention structure"  
"Malfunction prevention stopper"

### Push-In Plus Terminal Block



### Transparent case

Relay contact  
Easy confirmation of the situation

Release lever  
Relay easily fixed/removed



**Plug-in terminal**  
Terminal has strong mechanical pins that do not bend.

# Model Number Structure

## Model Number Legend

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

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

**(2) Sub type**

SR: 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/VC  
 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-SR500 DC12       |                    |
|                            |                     |                              |                         | 24                  | G2RV-SR500 DC24       |                    |
|                            |                     |                              | AC/DC                   | 24                  | G2RV-SR500 AC/DC24    |                    |
|                            |                     |                              |                         | 48                  | G2RV-SR500 AC/DC48    |                    |
|                            |                     |                              |                         | 100                 | G2RV-SR500 AC100      |                    |
|                            |                     |                              | AC                      | 110                 | G2RV-SR500 AC110      |                    |
|                            |                     |                              |                         | 200                 | G2RV-SR500 AC200      |                    |
|                            | 230                 | G2RV-SR500 AC230             |                         |                     |                       |                    |
|                            | Yes                 | DC                           | 24                      | G2RV-SR501 DC24     |                       |                    |
|                            |                     |                              | AC/DC                   | 24                  | G2RV-SR501 AC/DC24    |                    |
|                            | Microloads          | No                           | DC                      | 12                  | G2RV-SR500-AP DC12    |                    |
|                            |                     |                              |                         | 24                  | G2RV-SR500-AP DC24    |                    |
|                            |                     |                              | AC/DC                   | 24                  | G2RV-SR500-AP AC/DC24 |                    |
|                            |                     |                              |                         | 48                  | G2RV-SR500-AP AC/DC48 |                    |
| 100                        |                     |                              |                         | G2RV-SR500-AP AC100 |                       |                    |
| AC                         |                     |                              | 110                     | G2RV-SR500-AP AC110 |                       |                    |
|                            |                     |                              | 200                     | G2RV-SR500-AP AC200 |                       |                    |
| 230                        |                     | G2RV-SR500-AP AC230          |                         |                     |                       |                    |
| Screw terminal             |                     | Standard                     | No                      | DC                  | 12                    | G2RV-SR700 DC12    |
|                            |                     |                              |                         |                     | 24                    | G2RV-SR700 DC24    |
|                            | AC/DC               |                              |                         | 24                  | G2RV-SR700 AC/DC24    |                    |
|                            |                     |                              |                         | 48                  | G2RV-SR700 AC/DC48    |                    |
|                            |                     |                              |                         | 100                 | G2RV-SR700 AC100      |                    |
|                            | AC                  |                              |                         | 110                 | G2RV-SR700 AC110      |                    |
|                            |                     |                              |                         | 200                 | G2RV-SR700 AC200      |                    |
|                            | 230                 | G2RV-SR700 AC230             |                         |                     |                       |                    |
|                            | Yes                 | DC                           | 24                      | G2RV-SR701 DC24     |                       |                    |
|                            |                     |                              | AC/DC                   | 24                  | G2RV-SR701 AC/DC24    |                    |
| Microloads                 |                     |                              | No                      | DC                  | 12                    | G2RV-SR700-AP DC12 |
|                            | 24                  | G2RV-SR700-AP DC24           |                         |                     |                       |                    |
|                            | AC/DC               | 24                           | G2RV-SR700-AP AC/DC24   |                     |                       |                    |
|                            |                     | 48                           | G2RV-SR700-AP AC/DC48   |                     |                       |                    |
|                            |                     | 100                          | G2RV-SR700-AP AC100     |                     |                       |                    |
|                            | AC                  | 110                          | G2RV-SR700-AP AC110     |                     |                       |                    |
|                            |                     | 200                          | G2RV-SR700-AP AC200     |                     |                       |                    |
| 230                        | G2RV-SR700-AP AC230 |                              |                         |                     |                       |                    |

Note: Solid wire cannot be used for Push-In Plus terminal type. Make sure to use stranded wire or stranded wire with ferrules.

# G2RV-SR

## 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: Silver alloy

AP: Silver alloy + gold plate

**(5) Types of relay for exchange**

G: G2RV-SR series equipped

Relay

**(6) Rated coil voltage**

Number: 11, 21, 48 VDC

**G2RV-1-SI-G**



**G2RV-1-S-G(-AP)**



### List of Models

| Type      | Latching Lever (Test switch) | Rated coil voltage (V) | Model | Applicable model           |                            |
|-----------|------------------------------|------------------------|-------|----------------------------|----------------------------|
| Standard  | No                           | DC                     | 11    | <b>G2RV-1-S-G DC11</b>     | G2RV-SR700/500 DC12V       |
|           |                              |                        | 21    | <b>G2RV-1-S-G DC21</b>     | G2RV-SR700/500 DC24V       |
|           |                              |                        | 48    | <b>G2RV-1-S-G DC48</b>     | G2RV-SR700/500 AC/DC24V    |
|           |                              |                        |       |                            | G2RV-SR700/500 AC/DC48V    |
|           |                              |                        |       |                            | G2RV-SR700/500 AC100V      |
|           |                              |                        |       |                            | G2RV-SR700/500 AC110V      |
|           | Yes                          | DC                     | 21    | <b>G2RV-1-SI-G DC21</b>    | G2RV-SR700/500 AC200V      |
|           |                              |                        | 48    | <b>G2RV-1-S-G DC48</b>     | G2RV-SR700/500 AC230V      |
|           |                              |                        |       |                            | G2RV-SR701/501 DC24V       |
|           |                              |                        |       |                            | G2RV-SR701/501 AC/DC24V    |
| Microload | No                           | DC                     | 11    | <b>G2RV-1-S-AP-G DC11</b>  | G2RV-SR700/500-AP DC12V    |
|           |                              |                        | 21    | <b>G2RV-1-S-AP-G DC21</b>  | G2RV-SR700/500-AP DC24V    |
|           |                              |                        | 48    | <b>G2RV-1-S-AP-G DC48</b>  | G2RV-SR700/500-AP AC/DC24V |
|           |                              |                        |       |                            | G2RV-SR700/500-AP AC/DC48V |
|           |                              |                        |       |                            | G2RV-SR700/500-AP AC100V   |
|           |                              |                        |       |                            | G2RV-SR700/500-AP AC110V   |
|           | Yes                          | DC                     | 21    | <b>G2RV-1-SI-AP-G DC21</b> | G2RV-SR700/500-AP AC200V   |
|           |                              |                        | 48    | <b>G2RV-1-S-AP-G DC48</b>  | G2RV-SR700/500-AP AC230V   |
|           |                              |                        |       |                            | G2RV-SR701/501 DC24V       |
|           |                              |                        |       |                            | G2RV-SR701/501 AC/DC24V    |

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

## Specifications

### Ratings

#### Coil ratings

| Rated input voltage | Rated current |         |         | Operation voltage               | 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              | –             | –       | 27.2 mA | 80% max.*                       | 10% min.        | –                               | Approx. 300 mW | 110%                      |
| 24 VDC              | –             | –       | 13.3 mA |                                 |                 | –                               | Approx. 300 mW |                           |
| 24 VAC/VDC          | 21.1 mA       | 22.5 mA | 13.0 mA |                                 |                 | Approx. 0.5 VA                  | Approx. 300 mW |                           |
| 48 VAC/VDC          | 8.5 mA        | 9.0 mA  | 5.2 mA  |                                 |                 | Approx. 0.4 VA                  | Approx. 250 mW |                           |
| 100 VAC             | 7.1 mA        | 7.5 mA  | –       |                                 |                 | Approx. 0.8 VA                  | –              |                           |
| 110 VAC             | 7.1 mA        | 7.5 mA  | –       |                                 |                 | Approx. 0.8 VA                  | –              |                           |
| 200 VAC             | 7.2 mA        | 7.9 mA  | –       |                                 |                 | Approx. 1.7 VA                  | –              |                           |
| 230 VAC             | 7.3 mA        | 7.9 mA  | –       |                                 |                 | Approx. 1.7 VA                  | –              |                           |

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

\* Operating voltage will be 85% max. for upside down mounting.

#### Contact ratings

| Item                                      | Standard (G2RV-SR700, 500, 701, 501) |                                    | For microloads (G2RV-SR700-AP, 500-AP) *2 |
|---|--------------------------------------|------------------------------------|---|
| Contact configuration                     | SPDT                                 |                                    |   |
| Load                                      | Resistive load (cosφ=1)              | Inductive load (cosφ=0.4, L/R=7ms) | Resistive load (cosφ=1)                   |
| Rated load                                | 6 A at 250 VAC<br>6 A at 30 VDC      | 2.5 A at 250 VAC<br>2 A at 30 VDC  | 50 mA at 30 VAC<br>50 mA at 36 VDC        |
| Rated carry current                       | 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<br>180 W                    | 500 VA<br>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 gold plating layer is destroyed, the number will be the same as the standard type.

#### Characteristics

| Item                          | Standard (G2RV-SR700, 500, 701, 501)   |  | For microloads (G2RV-SR700-AP, 500-AP) |
|-------------------------------|--|--|--|
| Contact resistance *          | 100 mΩ max.  |  |  |
| Operate (Set) time *          | 20 ms max.   |  |  |
| Release time *                | AC, AC/DC: 40 ms max.<br>DC: 20 ms max.  |  |  |
| Maximum operating frequency   | Mechanical: 18,000 operations/h<br>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<br>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)<br>Malfunction: 10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm) |  |  |
| Shock resistance              | Destruction: 1,000 m/s <sup>2</sup><br>Malfunction: Energized 200m/s <sup>2</sup> , Non-energized 100m/s <sup>2</sup>  |  |  |
| Endurance *                   | Mechanical   | 5,000,000 operations min.  |  |
|                               | Electrical   | NO contact: 70,000 operations min.<br>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   |  |  |
| Contact material              | Ag alloy   |  | Ag alloy + Au plating                  |

**Note:** Above values are initial values.

\* Value is at ambient temperature of 23°C.

# G2RV-SR

G2RV-SR

## Approved standards

UL508 (file No.E41643)

| Model          | No. of poles | Operation coil ratings        | Contact ratings   | Operations |
|----------------|--------------|-------------------------------|---|------------|
| G2RV-SR series | SPDT         | 12 to 48 VDC<br>24 to 230 VAC | 6 A at 250 VAC (Resistive load)<br>6 A at 30 VDC (Resistive load)<br>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).



G3RV-SR

## VDE (EN 61810-1)

| Model          | No. of poles | Operation coil ratings                                 | Contact ratings   | Operations                |
|----------------|--------------|--|---|---------------------------|
| G2RV-SR series | SPDT         | 12, 24 VDC<br>24, 48 VAC/VDC<br>100, 110, 200, 230 VAC | 6 A at 250 VAC (Resistive load)<br>6 A at 30 VDC (Resistive load)<br>2 A at 400 VAC (Resistive load)* | 50,000<br>50,000<br>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).



Common Precautions

## Engineering Data

Endurance curve (N.O. side)



Switching capacity of DC resistive load



Common Accessories

# Dimensions

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

**Models without latching lever (without test switch)**

**G2RV-SR500**  
**G2RV-SR500-AP**



**Terminal Arrangement/Internal Connection Diagram (TOP VIEW)**



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

**G2RV-SR501**



**Terminal Arrangement/Internal Connection Diagram (TOP VIEW)**



G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

# G2RV-SR

## Screw terminal

### Models without latching lever (without test switch)

G2RV-SR700  
G2RV-SR700-AP

### Terminal Arrangement/Internal Connection Diagram (TOP VIEW)



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

G2RV-SR701

### Terminal Arrangement/Internal Connection Diagram (TOP VIEW)



G2RV-SR

G3RV-SR

Common Precautions

Common Accessories



Relay for maintenance

Models without latching lever

G2RV-1-S-G

G2RV-1-S-AP-G



Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

(Input circuit)



Models with latching lever (test switch)

G2RV-1-SI-G



Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

(Input circuit)



# Slim I/O Solid State Relay G3RV-SR

Global standard size, low profile, slim (6.2 mm width) I/O solid state relay.



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

Refer to *Safety Precautions* on page 20.

## Features

- 25% lower profile than conventional products, contributing to a smaller control panel.
- Optimal slim, high frequency, high-speed opening and closing SSR (solid state relay).
- Slim shape with a switching capacity up to 3 A (DC), and 2 A (AC).
- Because MOSFET is used for the outlet element for the DC load, opening and closing load of 100  $\mu$ A to 3 A is possible.
- Check operating status at a glance with the operating display LED.
- Mounted I/O SSR (solid-state relay) uses plug-in terminals with strong mechanical pins that do not bend.

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories



## Model Number Structure

### Model Number Legend

**G3RV-SR** □ □ □ - □ □  
 (1) (2) (3) (4) (5)

**(1) Basic model name**

G3RV: Slim I/O Solid State Relay

**(2) Sub type**

SR: Slim solid relay + integrated low profile socket

**(3) Terminal (wire connection)**

500: Push-In Plus Terminal

700: Screw terminal

**(4) Output voltage specification**

A : AC output (triac) zero cross function available

AL : AC output (triac) zero cross function not available

D : DC output (MOS FET)

**(5) Rated voltage input**

12, 24 VDC

24, 48 VAC/VDC

100, 110, 200, 230 VAC

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

# G3RV-SR

## Ordering Information

| Terminal (wire connection) | Applicable output load | Zero cross function  | Rated input voltage (V) |                     | Model                 |    |                      |
|----------------------------|------------------------|----------------------|-------------------------|---------------------|-----------------------|----|----------------------|
| Push-In Plus Terminal      | DC load                | —                    | DC                      | 12                  | G3RV-SR500-D DC12     |    |                      |
|                            |                        |                      |                         | 24                  | G3RV-SR500-D DC24     |    |                      |
|                            |                        |                      | AC/DC                   | 24                  | G3RV-SR500-D AC/DC24  |    |                      |
|                            |                        |                      |                         | 48                  | G3RV-SR500-D AC/DC48  |    |                      |
|                            |                        |                      | AC                      | 100                 | G3RV-SR500-D AC100    |    |                      |
|                            |                        |                      |                         | 110                 | G3RV-SR500-D AC110    |    |                      |
|                            |                        |                      |                         | 200                 | G3RV-SR500-D AC200    |    |                      |
|                            |                        |                      |                         | 230                 | G3RV-SR500-D AC230    |    |                      |
|                            |                        |                      |                         |                     |                       |    |                      |
|                            |                        |                      | AC load                 | Yes                 | DC                    | 12 | G3RV-SR500-A DC12    |
|                            |                        |                      |                         |                     |                       | 24 | G3RV-SR500-A DC24    |
|                            |                        |                      |                         |                     | AC/DC                 | 24 | G3RV-SR500-A AC/DC24 |
|                            | 48                     | G3RV-SR500-A AC/DC48 |                         |                     |                       |    |                      |
|                            | AC                     | 100                  |                         |                     | G3RV-SR500-A AC100    |    |                      |
|                            |                        | 110                  |                         |                     | G3RV-SR500-A AC110    |    |                      |
|                            |                        | 200                  |                         | G3RV-SR500-A AC200  |                       |    |                      |
|                            | No                     | DC                   |                         | 12                  | G3RV-SR500-AL DC12    |    |                      |
|                            |                        |                      |                         | 24                  | G3RV-SR500-AL DC24    |    |                      |
|                            |                        | AC/DC                |                         | 24                  | G3RV-SR500-AL AC/DC24 |    |                      |
|                            |                        |                      |                         | 48                  | G3RV-SR500-AL AC/DC48 |    |                      |
|                            |                        | AC                   |                         | 100                 | G3RV-SR500-AL AC100   |    |                      |
|                            |                        |                      | 110                     | G3RV-SR500-AL AC110 |                       |    |                      |
|                            | 200                    |                      | G3RV-SR500-AL AC200     |                     |                       |    |                      |
|                            |                        |                      | 230                     | G3RV-SR500-AL AC230 |                       |    |                      |
| Screw terminal             | DC load                | —                    | DC                      | 12                  | G3RV-SR700-D DC12     |    |                      |
|                            |                        |                      |                         | 24                  | G3RV-SR700-D DC24     |    |                      |
|                            |                        |                      | AC/DC                   | 24                  | G3RV-SR700-D AC/DC24  |    |                      |
|                            |                        |                      |                         | 48                  | G3RV-SR700-D AC/DC48  |    |                      |
|                            |                        |                      | AC                      | 100                 | G3RV-SR700-D AC100    |    |                      |
|                            |                        |                      |                         | 110                 | G3RV-SR700-D AC110    |    |                      |
|                            |                        |                      |                         | 200                 | G3RV-SR700-D AC200    |    |                      |
|                            |                        |                      |                         | 230                 | G3RV-SR700-D AC230    |    |                      |
|                            |                        |                      |                         |                     |                       |    |                      |
|                            |                        |                      | AC load                 | Yes                 | DC                    | 12 | G3RV-SR700-A DC12    |
|                            |                        |                      |                         |                     |                       | 24 | G3RV-SR700-A DC24    |
|                            |                        |                      |                         |                     | AC/DC                 | 24 | G3RV-SR700-A AC/DC24 |
|                            | 48                     | G3RV-SR700-A AC/DC48 |                         |                     |                       |    |                      |
|                            | AC                     | 100                  |                         |                     | G3RV-SR700-A AC100    |    |                      |
|                            |                        | 110                  |                         |                     | G3RV-SR700-A AC110    |    |                      |
|                            |                        | 200                  |                         | G3RV-SR700-A AC200  |                       |    |                      |
|                            | No                     | DC                   |                         | 12                  | G3RV-SR700-AL DC12    |    |                      |
|                            |                        |                      |                         | 24                  | G3RV-SR700-AL DC24    |    |                      |
|                            |                        | AC/DC                |                         | 24                  | G3RV-SR700-AL AC/DC24 |    |                      |
|                            |                        |                      |                         | 48                  | G3RV-SR700-AL AC/DC48 |    |                      |
|                            |                        | AC                   |                         | 100                 | G3RV-SR700-AL AC100   |    |                      |
|                            |                        |                      | 110                     | G3RV-SR700-AL AC110 |                       |    |                      |
|                            | 200                    |                      | G3RV-SR700-AL AC200     |                     |                       |    |                      |
|                            |                        |                      | 230                     | G3RV-SR700-AL AC230 |                       |    |                      |

Note: Solid wire cannot be used for Push-In Plus terminal type. Make sure to use stranded wire or stranded wire with ferrules.

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

## Solid state relay for maintenance

### Model Number Legend

G3RV-□□S□□  
 (1) (2) (3) (4) (5)

**(1) Output voltage specification**  
 D: DC output  
 2: AC output

**(2) Rated current**  
 02: AC output 2 A  
 03: DC output 3 A

**(3) Terminal**  
 S: Plug-in type

**(4) Zero cross functions**  
 Blank: Zero cross function available  
 L: Zero cross function not available

**(5) Rated input voltage**  
 Number: 12, 24, 48 VDC



### List of Models

| Insulation method | Operation Display         | Output (SSR)          | Zero cross Function      | Rated output Load *     | Rated input voltage (socket) | Model                      | Applicable model          |                 |                        |
|-------------------|---------------------------|-----------------------|--------------------------|-------------------------|------------------------------|----------------------------|---------------------------|-----------------|------------------------|
| Photo-triac       | Yes (green)               | AC                    | Yes                      | 2 A (at 100 to 240 VAC) | 12 VDC                       | G3RV-202S DC12             | G3RV-SR700/500-A DC12V    |                 |                        |
|                   |                           |                       |                          |                         | 24 VDC                       | G3RV-202S DC24             | G3RV-SR700/500-A DC24V    |                 |                        |
|                   |                           |                       |                          |                         | 24 VAC/VDC                   |                            | G3RV-SR700/500-A AC/DC24V |                 |                        |
|                   |                           |                       |                          |                         | 48 VAC/VDC                   | G3RV-202S DC48             | G3RV-SR700/500-A AC/DC48V |                 |                        |
|                   |                           |                       |                          |                         | 100 VAC                      |                            | G3RV-SR700/500-A AC100V   |                 |                        |
|                   |                           |                       |                          |                         | 110 VAC                      |                            | G3RV-SR700/500-A AC110V   |                 |                        |
|                   |                           |                       | 200 VAC                  |                         | G3RV-SR700/500-A AC200V      |                            |                           |                 |                        |
|                   |                           |                       | 230 VAC                  |                         | G3RV-SR700/500-A AC230V      |                            |                           |                 |                        |
|                   |                           |                       | 12 VDC                   |                         | G3RV-202SL DC12              | G3RV-SR700/500-AL DC12V    |                           |                 |                        |
|                   |                           |                       | 24 VDC                   |                         | G3RV-202SL DC24              | G3RV-SR700/500-AL DC24V    |                           |                 |                        |
|                   |                           |                       | 24 VAC/VDC               |                         |                              | G3RV-SR700/500-AL AC/DC24V |                           |                 |                        |
|                   |                           |                       | 48 VAC/VDC               |                         | G3RV-202SL DC48              | G3RV-SR700/500-AL AC/DC48V |                           |                 |                        |
|                   |                           | 100 VAC               | G3RV-SR700/500-AL AC100V |                         |                              |                            |                           |                 |                        |
|                   |                           | 110 VAC               | G3RV-SR700/500-AL AC110V |                         |                              |                            |                           |                 |                        |
|                   |                           | 200 VAC               | G3RV-SR700/500-AL AC200V |                         |                              |                            |                           |                 |                        |
|                   |                           | 230 VAC               | G3RV-SR700/500-AL AC230V |                         |                              |                            |                           |                 |                        |
|                   |                           | Photo-voltage coupler |                          | DC                      | -                            | 3 A (at 5 to 24 VDC)       | 12 VDC                    | G3RV-D03SL DC12 | G3RV-SR700/500-D DC12V |
|                   |                           |                       |                          |                         |                              |                            | 24 VDC                    | G3RV-D03SL DC24 | G3RV-SR700/500-D DC24V |
| 24 VAC/VDC        | G3RV-SR700/500-D AC/DC24V |                       |                          |                         |                              |                            |                           |                 |                        |
| 48 VAC/VDC        | G3RV-D03SL DC48           |                       |                          |                         |                              |                            | G3RV-SR700/500-D AC/DC48V |                 |                        |
| 100 VAC           |                           |                       |                          |                         |                              |                            | G3RV-SR700/500-D AC100V   |                 |                        |
| 110 VAC           |                           |                       |                          |                         |                              |                            | G3RV-SR700/500-D AC110V   |                 |                        |
| 200 VAC           |                           |                       |                          |                         |                              |                            | G3RV-SR700/500-D AC200V   |                 |                        |
| 230 VAC           | G3RV-SR700/500-D AC230V   |                       |                          |                         |                              |                            |                           |                 |                        |

\* Different depending on the ambient temperature.  
 For more details, refer to *Load current vs. ambient rated temperature* on page 16.

# G3RV-SR

## Specifications

### Rating (ambient temperature 25°C)

#### Input

##### G3RV-SR700/500-A series

| Rated input voltage | Rated current |        |       | Operation voltage | Release voltage | Input voltage                   |
|---------------------|---------------|--------|-------|-------------------|-----------------|---------------------------------|
|                     | AC            |        | DC    |                   |                 | Percentage of the rated voltage |
|                     | 50 Hz         | 60 Hz  |       |                   |                 |                                 |
| 12 VDC              | –             | –      | 15 mA | 10.8 V max.       | 1 V min.        | ±10%                            |
| 24 VDC              | –             | –      | 12 mA | 21.6 V max.       |                 |                                 |
| 24 VAC/VDC          | 20 mA         | 21 mA  | 11 mA | 21.6 V max.       |                 |                                 |
| 48 VAC/VDC          | 10 mA         | 11 mA  | 6 mA  | 43.2 V max.       |                 |                                 |
| 100 VAC             | 7.5 mA        | 7.5 mA | –     | 90 V max.         |                 |                                 |
| 110 VAC             | 7.5 mA        | 7.7 mA | –     | 99 V max.         |                 |                                 |
| 200 VAC             | 7.3 mA        | 8.6 mA | –     | 180 V max.        |                 |                                 |
| 230 VAC             | 7.3 mA        | 8.6 mA | –     | 207 V max.        |                 |                                 |

##### G3RV-SR700/500-AL series

| Rated input voltage | Rated current |        |       | Operation voltage | Release voltage | Input voltage                   |
|---------------------|---------------|--------|-------|-------------------|-----------------|---------------------------------|
|                     | AC            |        | DC    |                   |                 | Percentage of the rated voltage |
|                     | 50 Hz         | 60 Hz  |       |                   |                 |                                 |
| 12 VDC              | –             | –      | 15 mA | 10.8 V max.       | 1 V min.        | ±10%                            |
| 24 VDC              | –             | –      | 12 mA | 21.6 V max.       |                 |                                 |
| 24 VAC/VDC          | 20 mA         | 21 mA  | 11 mA | 21.6 V max.       |                 |                                 |
| 48 VAC/VDC          | 10 mA         | 11 mA  | 6 mA  | 43.2 V max.       |                 |                                 |
| 100 VAC             | 7.5 mA        | 7.7 mA | –     | 90 V max.         |                 |                                 |
| 110 VAC             | 7.5 mA        | 7.7 mA | –     | 99 V max.         |                 |                                 |
| 200 VAC             | 7.3 mA        | 8.6 mA | –     | 180 V max.        |                 |                                 |
| 230 VAC             | 7.3 mA        | 8.6 mA | –     | 207 V max.        |                 |                                 |

##### G3RV-SR700/500-D series

| Rated input voltage | Rated current |         |        | Operation voltage | Release voltage | Input voltage                   |
|---------------------|---------------|---------|--------|-------------------|-----------------|---------------------------------|
|                     | AC            |         | DC     |                   |                 | Percentage of the rated voltage |
|                     | 50 Hz         | 60 Hz   |        |                   |                 |                                 |
| 12 VDC              | –             | –       | 8 mA   | 10.8 V max.       | 1 V min.        | ±10%                            |
| 24 VDC              | –             | –       | 4.5 mA | 21.6 V max.       |                 |                                 |
| 24 VAC/VDC          | 10.7 mA       | 11.1 mA | 4.3 mA | 21.6 V max.       |                 |                                 |
| 48 VAC/VDC          | 9.6 mA        | 10.2 mA | 6 mA   | 43.2 V max.       |                 |                                 |
| 100 VAC             | 6.8 mA        | 7.2 mA  | –      | 90 V max.         |                 |                                 |
| 110 VAC             | 6.8 mA        | 7.2 mA  | –      | 99 V max.         |                 |                                 |
| 200 VAC             | 6.8 mA        | 8.1 mA  | –      | 180 V max.        |                 |                                 |
| 230 VAC             | 6.8 mA        | 8.1 mA  | –      | 207 V max.        |                 |                                 |

#### Output

| Item   | G3RV-SR700/500-A(L)                   | G3RV-SR700/500-D                         |
|--|---------------------------------------|--|
| Rated load voltage   | 100 to 240 VAC (50/60 Hz)             | 5 to 24 VDC                              |
| Load voltage range   | 75 to 264 VAC (50/60 Hz)              | 3 to 26.4 VDC                            |
| Load current   | 0.1 to 2 A (Ambient temperature=25°C) | 100 µA to 3 A (Ambient temperature=25°C) |
| Inrush current resistance  | 30 A (60 Hz, 1 cycle)                 | 30 A (60 Hz, 1 cycle)                    |
| Permissible I <sup>2</sup> t; Joule integral value (reference value) | 15A <sup>2</sup> s                    | 9 A <sup>2</sup> s                       |
| Applied load capacity  | 400 W<br>(Output voltage: 200 VAC)    | 72 W<br>(Output voltage: 24 VDC)         |

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

## Characteristics

| Item                                 | G3RV-SR700/500-A  | G3RV-SR700/500-AL | G3RV-SR700/500-D       |
|--------------------------------------|---|-------------------|------------------------|
| Operate time                         | 1/2 cycle of load power supply<br>+1 ms max.  | 3 ms max.         | 6 ms max.              |
| Release time                         | 60 ms max.  | 60 ms max.        | 60 ms max.             |
| Output ON voltage drop               | 1.6 V (RMS) max.  |                   | –                      |
| Output ON resistance                 | –   |                   | 0.3 Ω max. (at 24 VDC) |
| Leakage current                      | 5 mA max. (at 200 VAC, 50/60 Hz)  |                   | 10 μA max. (at 24 VDC) |
| Insulation resistance                | 100 MΩ min. (at 500 VDC)  |                   |                        |
| Dielectric strength                  | Between input and output 2,500 VAC 50/60 Hz 1 min   |                   |                        |
| Vibration resistance                 | Malfunction: 10 to 55 to 10 Hz double amplitude 0.70 mm   |                   |                        |
| Shock resistance                     | 300m/s <sup>2</sup>   |                   |                        |
| Ambient operating temperature        | Storage: –30 to +100°C (with no icing or no condensation)<br>Operating: –30 to +55°C (with no icing or no condensation) |                   |                        |
| Ambient operating humidity           | 45 to 85% RH  |                   |                        |
| Weight                               | Approx. 38 g  |                   |                        |
| Pollution degree                     | 2   |                   |                        |
| The degree of protection by IEC60529 | IP20  |                   |                        |
| Rated impulse dielectric strength    | 4.0 kV/III  |                   |                        |
| Load category                        | LC-A  |                   | DC-12                  |
| Overload current profile             | 1.5Ie 1.1Ie<br>5s ON, 10s OFF, 10 cycles  |                   |                        |
| Rated insulation voltage             | 240 V   |                   |                        |

## Approved standards

### UL 508 (file No.E64562)

| Model                      | Input ratings  | Contact ratings                      |
|----------------------------|--|--------------------------------------|
| G3RV-SR700/500-D series    | 12, 24 VDC<br>24, 48 VAC/VDC<br>100, 110, 200, 230 VAC | 24 VDC 3 A (resistive load) at 25°C  |
| G3RV-SR700/500-A(L) series | 12, 24 VDC<br>24, 48 VAC/DC<br>100, 110, 200, 230 VAC  | 240 VAC 2 A (resistive load) at 25°C |

### TÜV 62314

| Model                      | Input ratings  | Contact ratings              |
|----------------------------|--|------------------------------|
| G3RV-SR700/500-D series    | 12, 24 VDC<br>24, 48 VAC/VDC<br>100, 110, 200, 230 VAC | 24 VDC 3 A (resistive load)  |
| G3RV-SR700/500-A(L) series | 12, 24 VDC<br>24, 48 VAC/VDC<br>100, 110, 200, 230 VAC | 240 VAC 2 A (resistive load) |

Engineering Data

Load current vs. ambient rated temperature

G3RV-SR700/500-A(L) series

Product mounting spacing 10 mm (Separate Mounting)



Close mounting (up to 5 units \*)



G3RV-SR700/500-D series

Product mounting spacing 10 mm (Separate Mounting)



Close mounting (up to 5 units \*)



\* When five or more are installed, install with 10 mm space between each.  
For details, please refer to *Mounting* on page 23.

Inrush Current Resistance: Non-repetitive

Keep the inrush current to below the inrush current resistance value (i.e., below the broken line) if it occurs repetitively.

G3RV-SR700/500-A(L) series



G3RV-SR700/500-D series





# Dimensions

**Solid state relay + socket**  
**Push-In Plus Terminal Block**  
**G3RV-SR500**



**Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)**

**12 VDC**



**24 VDC**



**Other voltage**



\* : Diode bridge

: Light emitting diode

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

Screw terminal  
G3RV-SR700

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories



Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

12 VDC



24 VDC



Other voltage



- \* : Diode bridge
- : Light emitting diode

Solid state relay for maintenance

G3RV-D03SL  
G3RV-202S(L)



Terminal Arrangement/  
Internal Connection Diagram  
(TOP VIEW)

G3RV-D03SL (input circuit)



G3RV-202S(L) (input circuit)



G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

Safety Precautions

Be sure to read the *Safety Precautions for All Relays* in the website at the following URL:  
[www.omron247.com](http://www.omron247.com).

Format of Warning Indications

|  |   |
|--|---|
|  <b>WARNING</b> | 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. |
|  <b>CAUTION</b> | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.  |
| <b>Precautions for Safe Use</b>  | Indicates supplementary comments on what to do or avoid doing, to use the product safely.   |
| <b>Precautions for Correct Use</b>   | 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-SR 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-SR500/700-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 between the G2RV-SR and ground. Not doing so may result in a ground fault.



**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.
  - Do not store in locations subject to ambient storage temperatures outside the range -40 to 70°C (for G2RV) and outside the range -30 to 100°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
- Do not use or store Sockets in environments that contain silicone gas, sulfidizing gas (e.g., SO<sub>2</sub> or H<sub>2</sub>S), 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 with a 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.

**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 23. 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 fit it 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, use the wiring materials given in the following table.

| Recommended Wire                           | Stripping length             |                                  |
|--|------------------------------|----------------------------------|
|  | Ferrules When using terminal | Ferrules When not using terminal |
| 0.5 to 1.5 mm <sup>2</sup> /AWG20 to AWG16 | 10 mm                        | 8 mm                             |

**Note:** Use Ferrules with UL certification (R/C).

**Disposal**

- Do not dispose of the product by burning.

**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
  - Do not use the product where the socket could touch a solvent or alkaline agent.
- 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.

**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**

Insert the ferrule straight into the terminal block until the end strikes the terminal block.



**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 respond.
- (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 insertion, pull gently on the wire to make sure that it will not come out (i.e., to confirm that it is held by the terminal block).
- To prevent short circuits, insert the stripped part of a stranded wire or the conductive part of a ferrule until it is hidden inside the terminal insertion hole. (See following diagram.)



# G2RV-SR/G3RV-SR

G2RV-SR

## 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 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.



G3RV-SR

## 3. Recommended ferrules and tools

| Applicable wire        |       | Ferrules Conduct length (mm) | Recommended ferrules                     |                    |               |
|------------------------|-------|------------------------------|--|--------------------|---------------|
| (mm <sup>2</sup> )     | (AWG) |                              | Phoenix Contact product                  | Weidmuller product | Wago product  |
| 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<br>CRIMPFOX6T-F<br>CRIMPFOX10S | PZ6 roto           | Variocrimp4   |

- \*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.



### Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires. Use the following table is the manufacturer and format at the time in December 2015.



| 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      |

## Screw Terminal

### • Screw terminal

| Wired type  | Applicable wire size       | Stripping length |
|---|----------------------------|------------------|
| Stranded wires, without ferrule                     | 0.5 to 1.5 mm <sup>2</sup> | 8 mm             |
| Stranded wires, with ferrule and plastic collar     | 0.5 to 1.5 mm <sup>2</sup> | 8 mm             |
| Stranded wires with ferrule, without plastic collar | 0.5 to 1.5 mm <sup>2</sup> | 8 mm             |

### • Tightening Torque

0.4 N · m

### • Electric wiring

Use the electric wire of specified size as shown above. The stripped wire length is 8 mm.



## <G2RV>

### Operating latching lever

When operating the latching lever for G2RV-SR701/501 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.)



- 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.

Common Precautions

Common Accessories

### Method of operation of the latching lever



Keep the protective cover open when using the latching lever. Move until the latching lever clicks to the ON position (ON state). After using the 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

### <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 with a torque of 0.4 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 five or more are installed, install with 10 mm space between each.

### <Relationship of SSR and duct (duct depth)>



Do not enclose the SSR in a duct of the same height. It will interfere with the heat dissipation of SSR.

Use ducts that have a shallow depth, to provide a sufficient ventilation area.

If the ducts cannot be made lower, place the SSR on a metal base so that it is not surrounded by the ducts.

### <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.

# G2RV-SR/G3RV-SR

G2RV-SR

For G2RV-SR/G3RV-SR  
Common Accessories (order separately)

## Ordering Information

### Short Bars

| Appearance  | Pitch  | No. of poles | Colors                              | Model *       | Minimum order (Quantity) | Maximum energizing current |
|---|--------|--------------|-------------------------------------|---------------|--------------------------|----------------------------|
|  | 6.2 mm | 2            | Red (R),<br>Blue (S),<br>Yellow (Y) | PYDN-6.2-020□ | 10                       | 32 A                       |
|   |        | 3            |                                     | PYDN-6.2-030□ |                          |                            |
|   |        | 4            |                                     | PYDN-6.2-040□ |                          |                            |
|   |        | 10           |                                     | PYDN-6.2-100□ |                          |                            |
|   |        | 20           |                                     | PYDN-6.2-200□ |                          |                            |

**Note:** Use for wiring to the adjacent socket.

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

### Labels

| Appearance  | Model        | Minimum order                   |
|---|--------------|---------------------------------|
|  | XW5Z-P2.5LB2 | 5 sheets<br>(1 sheet/72 pieces) |

### Separate Plate

| Appearance  | Model     |
|---|-----------|
|  | XW5Z-EP12 |

### PLC interface unit

| Appearance  | I/O classification | Common process | Connection method | Model         |
|---|--------------------|----------------|-------------------|---------------|
|  | For input          | PNP            | Push-In           | P2RVC-8-I-5-1 |
|   |                    |                | Screw             | P2RVC-8-I-7-1 |
|   |                    | NPN            | Push-In           | P2RVC-8-I-5   |
|   | For output         | PNP            | Push-In           | P2RVC-8-O-5-1 |
|   |                    |                | Screw             | P2RVC-8-O-7-1 |
|   |                    | NPN            | Push-In           | P2RVC-8-O-5   |

### Parts for DIN Track Mounting

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

\* When mounting components to DIN rail, prevent sliding using end plates (Model PFP-M).

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

G3RV-SR

Common Precautions

Common Accessories



• Applicable Cables

| Name  | Appearance | Cable length L (mm) | Connecting Cables    | Applicable Connectors  |
|---|------------|---------------------|----------------------|--|
| Cables with Loose Wires<br>P2RV-A□C               |            | 1,000               | P2RV-A100C           | Various devices  |
|   |            | 2,000               | P2RV-A200C           |  |
|   |            | 3,000               | P2RV-A300C           |  |
|   |            | 5,000               | P2RV-A500C           |  |
| Cables with Connectors (1:4)<br>P2RV-4-□C         |            | 1,000               | P2RV-4-100C          | PLC I/O Units with MIL connectors (1:4)<br>CJ1W-OD232/OD262, etc.                          |
|   |            | 2,000               | P2RV-4-200C          |  |
|   |            | 3,000               | P2RV-4-300C          |  |
|   |            | 5,000               | P2RV-4-500C          |  |
| Cables with Connectors (1:4)<br>P2RV-4-□IMC       |            | 1,000               | P2RV-4-100IMC        | PLC I/O Units with MIL connectors (1:4)<br>CJ1W-ID232/ID262, etc.                          |
|   |            | 2,000               | P2RV-4-200IMC        |  |
|   |            | 3,000               | P2RV-4-300IMC        |  |
|   |            | 5,000               | P2RV-4-500IMC        |  |
| Cables with Connectors (1:4)<br>P2RV-4-□IFC       |            | 1,000               | P2RV-4-100IFC        | PLC I/O Units with Fujitsu connectors (1:4)<br>CJ1W-ID231/ID261, etc.                      |
|   |            | 2,000               | P2RV-4-200IFC        |  |
|   |            | 3,000               | P2RV-4-300IFC        |  |
|   |            | 5,000               | P2RV-4-500IFC        |  |
| Cables with Connectors (1:1)<br>P2RV-A□C-OMR GRT1 |            | 500                 | P2RV-A050C-OMR GRT1  | Slice I/O Units (1:1)<br>For inputs: GRT1-ID8-1<br>For outputs: GRT1-OD8-1                 |
|   |            | 1,000               | P2RV-A100C-OMR GRT1  |  |
|   |            | 1,000               | P2RV-A100IC-OMR GRT1 |  |
| Cables with Connectors (1:1)<br>P2RV-A□C-OMR NX   |            | 500                 | P2RV-A050C-OMR NX    | PLC I/O Units with MIL connectors (1:1)<br>For inputs: NX-ID4442<br>For outputs: NX-OD4256 |
|   |            | 1,000               | P2RV-A100C-OMR NX    |  |
|   |            | 500                 | P2RV-A050IC-OMR NX   |  |
|   |            | 1,000               | P2RV-A100IC-OMR NX   |  |

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

# G2RV-SR/G3RV-SR

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

| Name  |  | Appearance | Cable length L (mm) | Connecting Cables   | Applicable Connectors   |                 |  |
|---|--|------------|---------------------|---|---|-----------------|--|
| Schneider Electric PLC Connecting Cables<br>P2RV-□C-SCH-□   | 32 input points  |            | 500                 | P2RV-050C-SCH-A   | Schneider Electric PLCs with 32-point connectors (1:4)<br>For inputs: 140 DDI 353 00<br>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   |   |                 |  |
| Schneider Electric PLCs with 16-point connectors (1:2)<br>For inputs: BMX DDI 1602<br>For outputs: BMX DDO 1602 | 16 input points  | 500        | P2RV-050C-SCH-C     | Schneider Electric PLCs with 16-point connectors (1:2)<br>For inputs: BMX DDI 1602<br>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<br>P2RV-□C-SIM-□  | 32 input points  |            | 500                 | P2RV-050C-SIM-A   | Siemens PLCs with 32-point connectors (1:4)<br>For inputs: 6ES7 321-1BL00-0AA0<br>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)<br>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   |   |                 |  |
|   | Siemens PLCs with 32-point connectors (1:4)<br>For inputs: 6ES7 421-1BL-0AA0<br>For outputs: 6ES7 422-1BL-0AA0 |            | 32 input points     | 500   |   | P2RV-050C-SIM-D | Siemens PLCs with 32-point connectors (1:4)<br>For inputs: 6ES7 421-1BL-0AA0<br>For outputs: 6ES7 422-1BL-0AA0 |
|   |  |            |                     | 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     |   |   |                 |  |

**PLC interface unit**

**Ratings / characteristics**

|                               |                       |
|-------------------------------|-----------------------|
| Rated voltage                 | 30 VAC/DC             |
| Rated current                 | 0.5 A/poles, 2 A/unit |
| Ambient operating temperature | -40 to 55°C           |

**Electrical schematic**

**Input**

**P2RVC-8-I-□-1 (PNP)**



**P2RVC-8-I-5 (NPN)**



**Output**

**P2RVC-8-O-□-1 (PNP)**



**P2RVC-8-O-5 (NPN)**



G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

# G2RV-SR/G3RV-SR

## Dimensions

(unit: mm)

### PLC interface unit

Push-IN  
P2RVC-8-I-5(-1)  
P2RVC-8-O-5(-1)

G2RV-SR



G3RV-SR

Screw  
P2RVC-8-I-7-1  
P2RVC-8-O-7-1

Common Precautions



Common Accessories

(Except for PLC interface unit)  
**Common Accessories**

**Dimensions**

(unit: mm)

**Short Bars**

PYDN-6.2-□□ (6.2 mm)



| Pitch  | No. of poles | L (Length) | Colors                            | Model *       | Maximum carry current |
|--------|--------------|------------|-----------------------------------|---------------|-----------------------|
| 6.2 mm | 2            | 12.4       | Red (R)<br>Blue (S)<br>Yellow (Y) | PYDN-6.2-020□ | 32 A                  |
|        | 3            | 18.6       |                                   | PYDN-6.2-030□ |                       |
|        | 4            | 24.8       |                                   | PYDN-6.2-040□ |                       |
|        | 10           | 62         |                                   | PYDN-6.2-100□ |                       |
|        | 20           | 124        |                                   | PYDN-6.2-200□ |                       |

**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.

**Separate Plate**

XW5Z-EP12



**Parts for DIN Track Mounting**

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

G2RV-SR

G3RV-SR

Common Precautions

Common Accessories

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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