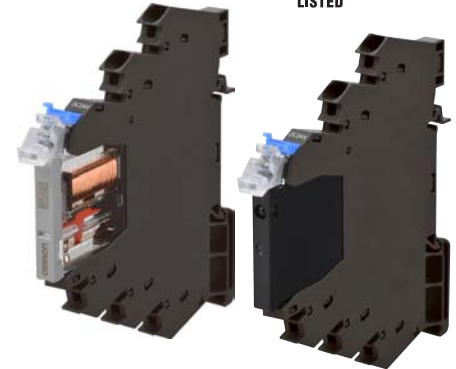


# Slim I/O Relay/Slim I/O Solid State Relay G2RV-ST/G3RV-ST

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



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.

- 60% space saving from G2R series with 6.2 mm width.
- 60%\* reduction in wiring time and user-friendly with a low insertion force thanks to Push-In Plus Technology.
- Larger hole and angled structure contribute to efficient wiring and standardization of wires up to AWG14, 2.5 mm<sup>2</sup>.
- Easy maintenance with improved LED visibility and color stopper voltage line identification.
- Low cutting force of short bars contribute to reducing health issues such as Tenosynovitis.

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

## Slim I/O Relay Types

**G2RV-ST series** mounted relay: electromagnetic relay..... from page 2

**G3RV-ST series** mounted relay: solid state relay..... from page 12

## Common matter

**Common precautions** ..... from page 22

**Common accessories (order separately)**..... from page 29

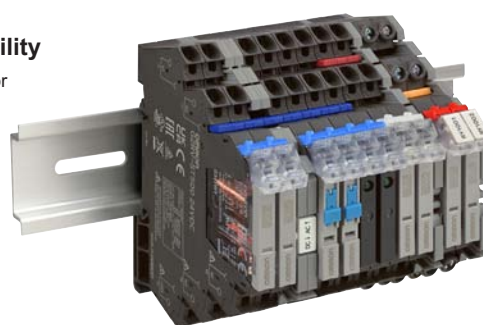
## Common features of G2RV-ST/G3RV-ST

### Wiring standardization is also supported by 2.5 mm<sup>2</sup> compatibility

DC common wiring also provides support for 2.5 mm<sup>2</sup> dia./AWG14 (2.0 mm<sup>2</sup>) needs

### Wiring work efficiency improvement

Easy to see and easy insertion thanks to large-diameter wiring holes and tilted structure.



### Work judgment support is provided through mounting feeling enhancement.

Work efficiency is enhanced by DIN rail sliding performance and short bar improvements.



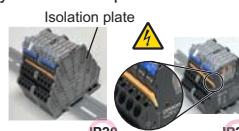
DIN rail tolerance is also supported through elasticity.



Insertion feeling to let you know when mounting is complete.

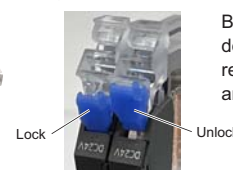
### Easy and safe

Short bar cutting force has been decreased to reduce the burden during assembly. Electrification of the short bar fracture plane is prevented by an isolation plate.



Note. Cutting force of 25 kg, so easily cut by needle-nose pliers

### Maintainability is enhanced by color stoppers



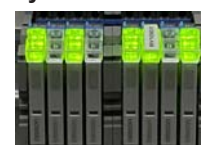
Both easy replacement and detachment prevention of relays are achieved by locking and unlocking of stopper.

Designed so that wires are hard come out even if release levers are touched unintentionally.



Coil voltage line identification  
Red: AC  
Blue: DC  
White: Multi (e.g. 24 VAC/VDC)

### Visibility is enhanced by release lever LED



Visibility from the front is improved by a structure where the actual release lever lights and by expanding the light emission area.

Note. The third relay from the right is equipped with a label.

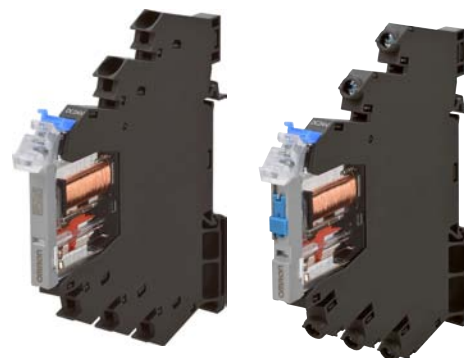
# Slim I/O Relay G2RV-ST

**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

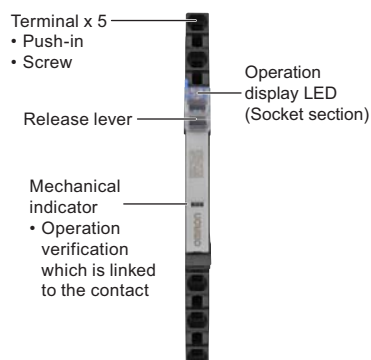


For the recent information on models that have been certified for safety standards, refer to your OMRON website.

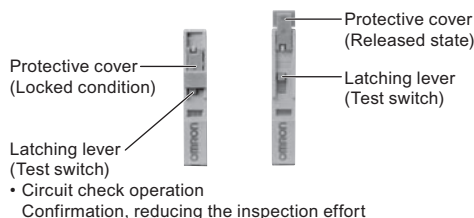
Refer to *Safety Precautions* on page 22.

## Features

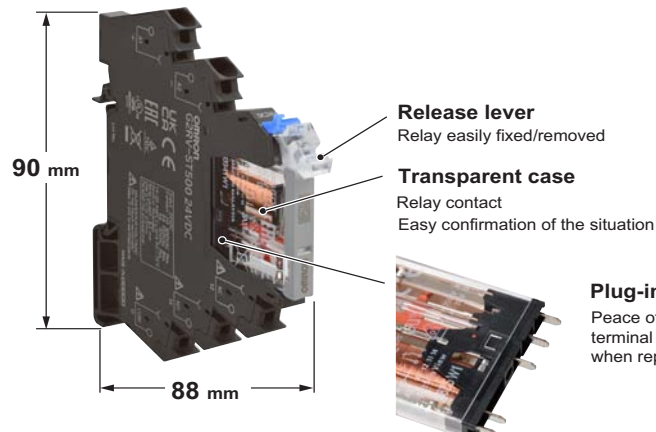
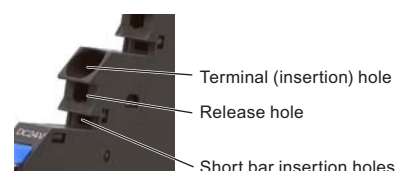
### Standard model/Micro load



### With latching lever (Test switch)



### Push-In Plus technology



## 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
				230	G2RV-ST500 230 VAC
	Microloads	No	DC	24	G2RV-ST501 24 VDC
				24	G2RV-ST501 24 VAC/VDC
			AC/DC	24	G2RV-ST500-AP 12 VDC
				24	G2RV-ST500-AP 24 VDC
			AC	24	G2RV-ST500-AP 24 VAC/VDC
				48	G2RV-ST500-AP 48 VAC/VDC
				100	G2RV-ST500-AP 100 VAC
				110	G2RV-ST500-AP 110 VAC
				200	G2RV-ST500-AP 200 VAC
				230	G2RV-ST500-AP 230 VAC
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
				230	G2RV-ST700 230 VAC
	Microloads	No	DC	24	G2RV-ST701 24 VDC
				24	G2RV-ST701 24 VAC/VDC
			AC/DC	24	G2RV-ST700-AP 12 VDC
				24	G2RV-ST700-AP 24 VDC
			AC	24	G2RV-ST700-AP 24 VAC/VDC
				48	G2RV-ST700-AP 48 VAC/VDC
				100	G2RV-ST700-AP 100 VAC
				110	G2RV-ST700-AP 110 VAC
				200	G2RV-ST700-AP 200 VAC
				230	G2RV-ST700-AP 230 VAC

**Note:** Sockets are not sold individually.