G2RV/G3RV Series Relays
The world’s most reliable slim general purpose and solid state relays

- LED indicator makes it easy to check operation & condition
- Ultra-slim 6mm design save space
- Large contact area & non-bendable pins guarantee secure & reliable connections

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Industrial Switching made easy

OMRON offers an industrial Switching solution that makes the installation and replacement of relays easy. OMRON’s slim (6mm) industrial relay series, takes just a few steps to interface connectors securely and reliably to any PLC.

G2RV Slim (6mm) Plug-in General Purpose Relay

The only truly industrial 6 mm plug-in relay on the market. Offering significant space and time savings without compromising on reliability.

• SPDT type 6A@250VAC
• Longer life versus average 6 mm relays
• Large surface contact area and non-bendable pins guarantee secure and reliable connections
• LED indicator and mechanical flag indicator makes it easy to check operating condition

G3RV Slim (6mm) Plug-in Solid State Relay

A strong, space-saving relay offering quick and easy connection to a PLC.

• 2A@264VAC and 3A@26.4VDC output
• Large surface contact area and non-bendable pins guarantee secure and reliable connections
• Zero cross switching models
• LED indicator on relay and socket makes it easy to check operating condition

2 Socket Connection Types

• Push-in type (500 series) for reduced wiring time

Quick Link
R425

Quick Link
R226

SL 500 series socket
Push-in terminal

SL 700 series socket
Screw terminal
Features
- Interface block (P2RVC-8-O-F) connects 8 relays to your PLC (SL700 series only)
- Spring terminal of P2RVC-8-O-F provide secure connection and has better vibration resistance
- Quick easy connection resulting in wiring time saving.
- Selectable cable length (1.0m to 5.0m)

Robust & Wide Terminals
- No bending during maintenance
- Large plug-in terminals for reliable connection

Transparent Housing (G2RV)
- Visual inspection of the contacts

Contact status is visible

Industrial (solid state) relays are commonly used in industries like Food & Beverage, for switching the various actuators on a bottling line.

Mechanical Flag and LED Indication
- Socket LED indicator confirms input voltage condition
- Mechanical flag (G2RV) indicates actual movement of the contacts
- LED indicator (G3RV) on the relay indicates status of output condition

All terminals : 0.5 x 1.8 mm
## Ordering Information

### RELAY / SOCKET COMBINATION

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>Contact Output</th>
<th>Solid State Output</th>
<th>Push-in terminals</th>
<th>Screw terminals</th>
<th>Push-in terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>G2RV-SL700</td>
<td>G3RV-SL700-D</td>
<td>G2RV-SL500</td>
<td>DC12</td>
<td>G3RV-SL500-D</td>
</tr>
<tr>
<td></td>
<td>DC12(DC11)</td>
<td>DC12</td>
<td>DC12(DC11)</td>
<td>DC12</td>
<td>DC12</td>
</tr>
<tr>
<td>24VDC</td>
<td>G2RV-SL700</td>
<td>G3RV-SL700-D</td>
<td>G2RV-SL500</td>
<td>DC24</td>
<td>G3RV-SL500-D</td>
</tr>
<tr>
<td></td>
<td>DC24(DC21)</td>
<td>DC24</td>
<td>DC24(DC21)</td>
<td>DC24</td>
<td>DC24</td>
</tr>
<tr>
<td>24VAC/DC</td>
<td>G2RV-SL700</td>
<td>G3RV-SL700-D</td>
<td>G2RV-SL500</td>
<td>AC/DC24</td>
<td>G3RV-SL500-D</td>
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<tr>
<td></td>
<td>AC/DC24</td>
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<td>AC/DC24</td>
<td>AC/DC24</td>
<td>AC/DC24</td>
</tr>
<tr>
<td>48VAC/DC</td>
<td>G2RV-SL700</td>
<td>G3RV-SL700-D</td>
<td>G2RV-SL500</td>
<td>AC/DC48</td>
<td>G3RV-SL500-D</td>
</tr>
<tr>
<td></td>
<td>AC/DC48</td>
<td>AC/DC48</td>
<td>AC/DC48</td>
<td>AC/DC48</td>
<td>AC/DC48</td>
</tr>
<tr>
<td>110VAC</td>
<td>G2RV-SL700</td>
<td>G3RV-SL700-D</td>
<td>G2RV-SL500</td>
<td>AC110</td>
<td>G3RV-SL500-D</td>
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<tr>
<td></td>
<td>AC110</td>
<td>AC110</td>
<td>AC110</td>
<td>AC110</td>
<td>AC110</td>
</tr>
<tr>
<td>230VAC</td>
<td>G2RV-SL700</td>
<td>G3RV-SL700-D</td>
<td>G2RV-SL500</td>
<td>AC230</td>
<td>G3RV-SL500-D</td>
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<tr>
<td></td>
<td>AC230</td>
<td>AC230</td>
<td>AC230</td>
<td>AC230</td>
<td>AC230</td>
</tr>
</tbody>
</table>

* G3RV AC Output A: with Zero cross function, AL: without Zero cross function

### ACCESSORIES

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Ordering Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross bar</td>
<td>2, 3, 4, 10, 20 poles, 3 color (Red, Blue, Black)</td>
<td>P2RVM-□□□□</td>
</tr>
<tr>
<td>PLC interface</td>
<td>Connect 8 relays and PLC output</td>
<td>P2RVC-8-O-F</td>
</tr>
<tr>
<td>Cable for P2RVC-8-O-F</td>
<td>Single sided 10 pole IDC connector, 1, 2, 3, 5 m</td>
<td>P2RVA□□□□□</td>
</tr>
<tr>
<td>Plastic Label</td>
<td>120 labels / 1 sheet, Mounting on socket</td>
<td>R99-15 for G2RV</td>
</tr>
<tr>
<td>Label (Stickers)</td>
<td>484 labels / 1 sheet</td>
<td>R99-16 for G2RV</td>
</tr>
</tbody>
</table>

### G2RV Series Specifications

- **Contact Form**: SPDT
- **Rate Load (resistive)**: 6A/250VAC, 6A/30VDC
- **Max. Switching Voltage**: 400VAC, 125VDC
- **Max. Switching Current**: 6A
- **Max. Switching Power**: 1,500WA / 180W
- **Min. Permissible Load**: 10mA/5VDC
- **Mechanical Life**: 5 Million Operations
- **Electric Life (Rated Load)**: 100k operations typical
- **Ambient Temperature**: -40 to 55°C
- **Approved Standards**: cULus, VDE, CE

### G3RV Series Specifications

- **Load Voltage Range**: 75 to 264VAC (50/60 Hz) 3 to 264VDC
- **Load Current**: 0.1A to 2A 100μA to 3A
- **Load Capacity**: 400W (at 200VAC) 72W (at 24VDC)
- **Output ON voltage drop**: 1.6 V rms max. 0.9V max
- **Leakage Current**: 5 mA max. 10μA max.
- **Ambient Temperature**: <30 to 55°C
- **Approved Standards**: cULus, TUV, CE

Relay and Socket combinations are cULus listed