Push-In Plus Terminal Block Relay Series

PYF-PU (Sockets for MY Relays)
P2RF-PU (Sockets for G2R-S Relays)
G2RV-SR/G3RV-SR (Slim I/O Relays)
G70V (I/O Relay Terminals)

- Push-In Plus terminal blocks for easy wiring
- Installation with either top or bottom facing up for more flexible in-panel wiring
- A compact design and unique structure help reduce work from designing to maintenance
New Value for Control Panels

Control Panels: The Heart of Manufacturing Sites
Recent evolution in control panel design and manufacturing are benefitting panel builders as well as end users and machine builders, resulting in an evolution within production facilities that reduces total cost of ownership. With the goal of making panel manufacturing simpler and more efficient, we have developed new techniques and technologies for panel design, panel manufacturing and wiring. Our Value Design for Panel concept guides the development of control panel products that reduce time and labor costs, power consumption, and control cabinet size.

Value Design for Panel Concept Advantages
Specifications for Value Design products focus on uniform mounting height and depth, reduced overall volume and side-by-side mounting to make room for more components. Wiring capabilities without tools using front access Push-In Plus wiring terminals decreases installation time.

A panel built around Value Design Concept products provides competitive advantages for panel builders, machine builders and end users. Combining multiple products that share the Value Design Concept increases the value to all stakeholders involved with control panel design and use.
A New Standard for Reducing Work in Control Panels

Less wiring and less work by combining a wide range of relay models with the new easy-to-use Push-In Plus terminal block relay series.

OMRON provides many accessories that make I/O products more convenient.
Push-In Plus Terminal Blocks for Easy Wiring

**Just Insert Wires: No Tools Required**
Now you can use Push-In Plus terminal blocks to reduce the time and work involved in wiring.

**Greatly Reduce Wiring Work with Push-In Plus Terminal Blocks**

![Image of comparison between conventional screw terminal blocks and OMRON Push-In Plus terminal block]

*Based on actual measurement data.

**Screwdriver Held in Place to Free Both Your Hands**
Optimized to hold a screwdriver while connecting stranded wires directly to the terminal.

**Easy to Insert**
OMRON’s Push-In Plus terminal blocks are easy to insert. They help reduce wiring time and improve quality.

**Same Strength as Screw Terminals**
The advanced Push-In Plus terminal design and manufacturing technology produce a spring that provides better workability and reliability. Wires are held firmly in place with the same strength as screw terminal blocks.

**No Retightening Required**
Unlike screw terminal blocks, Push-In Plus terminals, require no retightening for inspections, shipping, or maintenance.
PYF-PU, P2RF-PU, G2RV-SR/G3RV-SR

Installation with Either End Up for More Flexible In-panel Design

There are no installation direction restrictions, which enables flexible, efficient wiring inside panels.

Specified Installation Direction (Previous Industry Standard)

No Installation Direction Restrictions

The ability to be installed with either top or bottom facing up simplifies designing and reduces wiring. A unified height of 90 mm enables sharing short bars, reduces work in managing stocks, and reduces design work.

Standard-feature Release Levers

All Relays in the Push-In Plus Terminal Block Relay Series come with release levers as standard for easy Relay locking and releasing.

Certified for Global Safety Standards

Globally applicable design for reliable use in most countries around the world.

Fixture rails can be pulled out for screw mounting. (Applicable models: PYF-PU and P2RF-PU)

*You can wire by the shortest path.

Note: Refer to individual datasheets for details.
**G2RV-SR**

Compact Design and Unique Structure Help Reduce Work from Design to Maintenance

G2RV Relays were optimized for in-panel applications and can reduce panel size by 25%.

- **Transparent case**
  Easy confirmation of Relay contact state

- **Release lever**
  Easy Relay locking and releasing

- **Protective cover**
  Stopper for preventing incorrect operation

- **Latching lever**
  Reduces circuit checking, operation confirmation, and inspection work.

- **Plug-in terminals**
  Provide reliability because the terminals do not bend during replacement work.

**G2RV-SR/G3RV-SR, G70V**

Reduce Wiring with PLC Cables

**Using a PLC Interface Unit with G2RV-SR/G3RV-SR Slim I/O Relays**
You can connect 8 I/O points directly with just one PLC cable to effectively reduce wiring work.

**Using a G70V I/O Relay Terminal**
You can connect 16 I/O points with just one PLC cable to reduce wiring work.
Product Lineup

Sockets for Relays

<table>
<thead>
<tr>
<th>MY Series</th>
<th>G2R-S Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>PYF-08-PU</td>
</tr>
<tr>
<td>No. of poles</td>
<td>2 poles</td>
</tr>
<tr>
<td>Appearance</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

Slim I/O Relays

<table>
<thead>
<tr>
<th>Basic model</th>
<th>With latching lever</th>
<th>For microloads (gold-plated contacts)</th>
<th>Solid State Relays (SSRs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>G2RV-SR500*</td>
<td>G2RV-SR501*</td>
<td>G3RV-SR500*</td>
</tr>
<tr>
<td>AC load</td>
<td>6 A at 250 VAC</td>
<td>6 A at 250 VAC</td>
<td>2 A at 100 to 250 VAC</td>
</tr>
<tr>
<td>DC load</td>
<td>6 A at 30 VDC</td>
<td>6 A at 30 VDC</td>
<td>3 A at 5 to 24 VDC</td>
</tr>
<tr>
<td>Appearance</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

I/O Relay Terminals

<table>
<thead>
<tr>
<th>For inputs</th>
<th>For outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>G70V-SID16P-1</td>
</tr>
<tr>
<td>Transistor output</td>
<td>PNP</td>
</tr>
<tr>
<td>Appearance</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

Replacement Parts and Accessories Available for Different Applications

Accessories that make I/O products more convenient

<table>
<thead>
<tr>
<th>Short Bars</th>
<th>Separator Plate</th>
<th>PLC Interface Units / PLC Cables</th>
<th>Cables for I/O Relay Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>PYDN-9</td>
<td>XWSZ-EP12</td>
<td>P2RVC / P2RV</td>
</tr>
<tr>
<td>Transistor output</td>
<td>Reducing wiring and device connections</td>
<td>Insulation</td>
<td>Reducing wiring</td>
</tr>
<tr>
<td>Applicable models</td>
<td>PYF-PU</td>
<td>P2RF-PU</td>
<td>G2RV-SR</td>
</tr>
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