New Value For Control Panels

### OMRON

# 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.

Evolution in control panels results in large evolution in production facilities.

And if control panel design, control panel manufacturing processes, and human interaction with them are innovated, control panel manufacturing becomes simpler and takes a leap forward.

OMRON will continue to achieve a control panel evolution and process innovation through many undertakings starting with the shared Value Design for Panel \*1 concept for the specifications of products used in control panels.



A New Standard for Reducing Work in Control Panels

Less Wiring and Less Work by Uniting a Wealth of Relay Models with the New Easy-to-use Push-In Plus Terminal Block Relay Series

> I/O Relay Terminal G70V

3

Slim I/O Relays G2RV-SR/G3RV-SR (Models with Relays or SSRs)

Wiring in a

**Single Step** 



Sockets for G2R-S Relays P2RF-PU

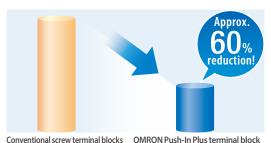
Sockets for MY Relays PYF-PU Push-In Plus terminal blocks enable easy insertion of ferrules or solid wires without any tools.

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



Conventional screw terminal blocks OMIKON Push-In Plus terminal block \*Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.



#### Screwdriver Held in Place to Free Both Your Hands

Optimized shape to hold the screwdriver was created by the resin parts and the spring. Work goes smoothly when connecting stranded wires directly to the terminal because it's easier to aim at the desired terminal.



#### Easy to Insert

OMRON's Push-In Plus terminal blocks are as easy as inserting to an earphone jack. They help reduce the work load and improve wiring quality.

#### Held Firmly in Place

Even though less insertion force is required, the wires are held firmly in place. The advanced mechanism design technology and manufacturing technology produced a spring that ensures better workability and reliability. The same strength as screw terminal blocks is provided.

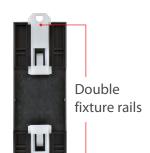
#### No Retightening Required

Tightening screws is necessary for screw terminal blocks, but with Push-In Plus terminal blocks, there is no need for retightening for inspections, delivery (shipping), or maintenance.



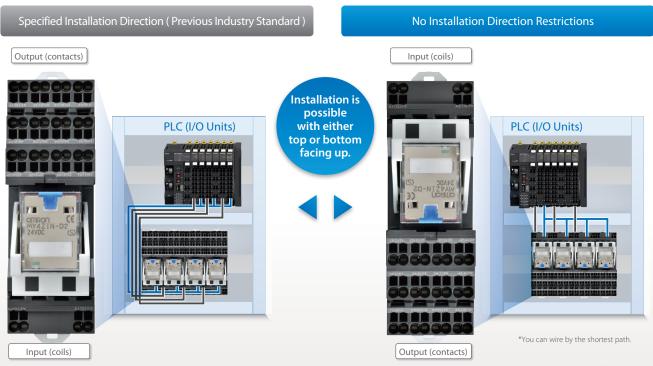
#### 

### PYF-PU, P2RF-PU, G2RV-SR/G3RV-SR Installation with Either Top or Bottom Facing Up for More Flexible In-panel Designing



Back of Push-In Plus Terminal Block Socket

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



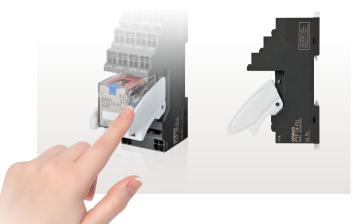
The ability to be installed with either top or bottom facing up simplifies designing and reduces wiring. A unified height of 90 mm enables sharing short bars, reduces work in managing stocks, and reduces design work.

And the fixture rails can be pulled out to mount the Relays with screws. (Applicable models: PYF-PU and P2RF-PU)



#### 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 Main Safety Standards

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



#### G2RV-SR

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

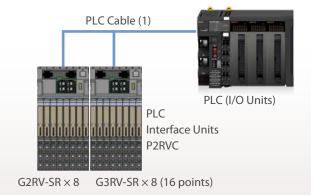
G2RV Relays, which were optimally designed for in-panel applications, can be mounted to downsize panels by 25% over previous OMRON Relays.



### g2RV-SR/G3RV-SR, G70V PLC Cables Reduce Wiring Even Further

#### 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.



G70V I/O Relay Terminal (One Block, 16 points)



#### Product Lineup

#### Sockets for Relays

	MY Series		G2R-S Series	
Model	PYF-08-PU	PYF-14-PU	P2RF-05-PU	P2RF-08-PU
No. of poles	2 poles	4 poles	1 pole	2 poles
Appearance		Panel		Pane

#### Slim I/O Relays

	Basic model	With latching lever	For microloads (gold-plated contacts)	Solid State Relays (SSRs)
Model	G2RV-SR500*	G2RV-SR501*	G2RV-SR500-AP*	G3RV-SR500*
AC load	6 A at 250 VAC	6 A at 250 VAC	50 mA at 30 VAC	2 A at 100 to 250 VAC
DC load	6 A at 30 VDC	6 A at 30 VDC	50 mA at 36 VDC	3 A at 5 to 24 VDC
Appearance	Pane	Pane	Pare	Panel

\*Relays are also available with screw terminals.

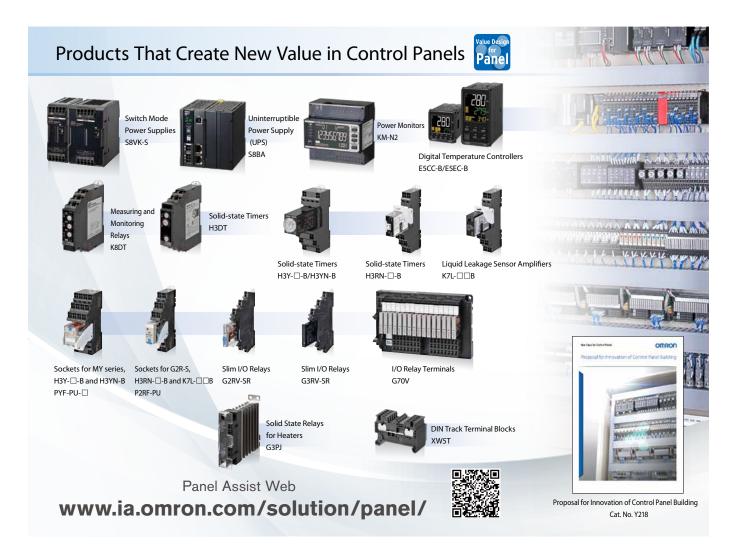
#### I/O Relay Terminals

	For inputs		For outputs	
Model	G70V-SID16P-1	G70V-SID16P	G70V-SOC16P-1	G70V-SOC16P
Transistor output	PNP	NPN	PNP	NPN
Appearance				Panel

#### Replacement Parts and Accessories Available for Different Applications

Accessories Accessories that make I/O products more convenient

	Short Bars	Separator Plate	PLC Interface Units / PLC Cables	Cables for I/O Relay Terminal
Model	PYDN-□-□	XW5Z-EP12	P2RVC / P2RV	XW2Z
Application	Reducing wiring and device connections	Insulation	Reducing wiring	Reducing wiring
Applicable models	PYF-PU P2RF-PU G2RV-SR G3RV-SR	G2RV-SR G3RV-SR	G2RV-SR G3RV-SR	G70V



Refer to the PYF- D-PU/P2RF- D-PU Push-In Plus Terminal Block Sockets Datasheet (Cat. No. J212), the G2RV-SR/G3RV-SR Slim I/O Relays Datasheet (Cat. No. J214), and the G70V I/O Relay Terminal Datasheet (Cat. No. J215) for details.

Before you place an order, please read and understand "Agreement for Using the Product" available on Omron's latest "Best control devices Omron", "General Brochure" or Omron's website.

#### **OMRON** Corporation **Industrial Automation Company** Authorized Distributor: Kyoto, JAPAN Contact: www.ia.omron.com **Regional Headquarters OMRON ELECTRONICS LLC** OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands

Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200 © OMRON Corporation 2016 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice.

CSM\_1\_2\_0416 Cat. No. J213-E1-01

0316 (0316)