

Relay Sockets with Push-In Plus technology

PYF-PU (Sockets for MY Relays) G6D-F4PU/G3DZ-F4PU (Terminal Relays)

PTF-PU (Sockets for LY Relays) G70V (I/O Relay Terminals)

P2RF-PU (Sockets for G2R-S Relays)

P7SA-PU (Sockets for G7SA Relays with Forcibly Guided Contacts)

G2RV-ST/G3RV-ST (Slim I/O Relays)



- · Sockets with Push-In Plus technology for easy wiring
- A compact design and unique structure help reduce work from designing to maintenance

For building green control panels

Natural disasters caused by global warming and climate change are became global social issue, that drives over 150 countries and regions worldwide to take action toward decarbonization. Our goal is to reduce greenhouse gas (GHG) emissions toward half by through new ways of building control panels, that key figure of the manufacturing site.



Innovation for design, building Process

Further Evolution for Panels

Panel

Realize compact & highly reliable control panels

Building sustainable control panels

Creating green control panels

Simple & Easy People

People

Provide reliable and comfortable manufacturing for all people who deal with control panels

Green

Reducing GHG emission of control panels to achieve carbon neutrality





Integrating green perspectives into Value Design

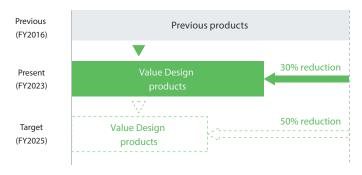
Value Design for Panel (Value Design) is the common concept shared across OMRON's in-panel product specifications to deliver new value to your control panels.

This Value Design also integrate environment consideration concept that enable earth and user-friendly control panel building.



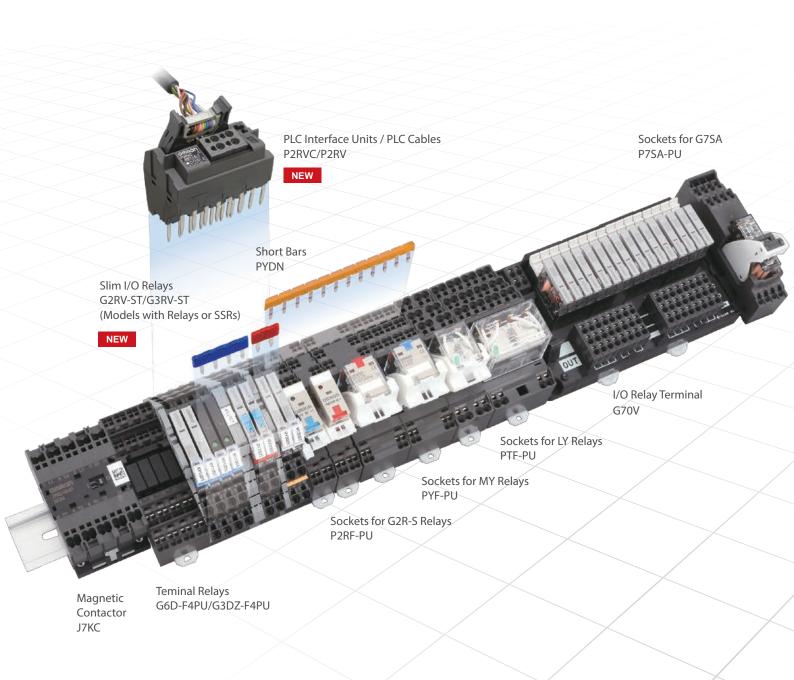
- 1 Unified height & slim size*1
- 2 Side-by-side mounting at (55°C) ambient temperature*2
- 3 Unique Push-In Plus technology*1
- 4 Front-in and front-release wiring
- 5 ——eCAD library
- 6 ---- Certification for CE, UL, and CSA
- 7 Green features that save energy and resources*3

CFP of control panel (total GHG emissions)*4



- *1. Expect for some products
- *2. Side-by-side mounting is possible in the same series
- *3. Greener design compared to previous (2016) products
- *4. CFP (carbon footprint) of control panel is a calculation result of refering the life cycle assessment method that based on international standards ISO14067 which define CO2 quantitative conversion of the environmental burden at every stage, from manufacturing, transportation, use, and disposal of the control panel (product). According to OMRON investigation in May 2023.

Push-In Plus technology Reduces Wiring and Workload



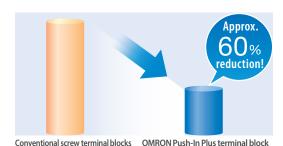
OMRON provides many accessories that make I/O products more convenient.

Push-In Plus technology for Easy Wiring

Just Insert Wires: No Tools Required

Now you can use Push-In Plus technology to reduce the time and work involved in wiring.

Greatly Reduce Wiring Work with Push-In Plus technology

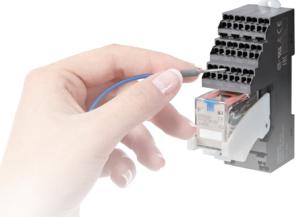


*Information for Push-In Plus and screw terminal blocks is based on

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 technology are as easy as inserting to an earphone jack. They help reduce the work load and improve wiring quality.

Wiring

Just Insert Wires: No Tools Required. Now you can use Push-In Plus terminal blocks. (solid wires, or ferrules)



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 technology, there is no need for retightening. This reduces works for wirings, inspections, delivery (shipping), or maintenance.

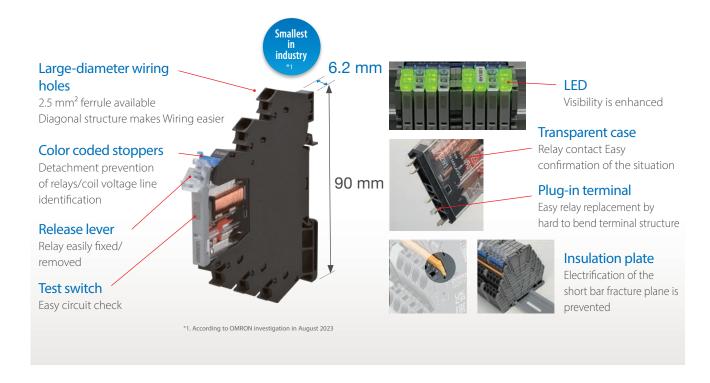


Slim I/O Relays G2RV-ST/G3RV-ST

Compatible Space Saving and Usability with Slim Structure

G2RV-ST NEW

G2RV Relays, which were optimally designed for in-panel applications, width 6.2mm for miniaturization. Improved usability including Wiring, visibility and handling.



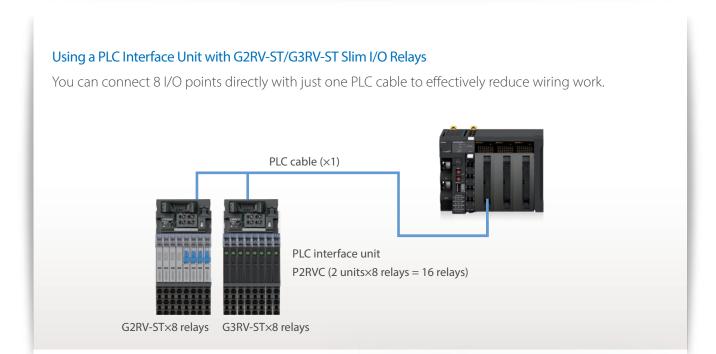
G3RV-ST NEW

SSR(Solid state Relay) type with the same slim shape and size as G2RV-ST. In addition to the lineup of high-speed type (-H), this product is also capable of high-speed opening and closing.



Slim I/O Relays, I/O Relay Terminals G2RV-ST/G3RV-ST, G70V

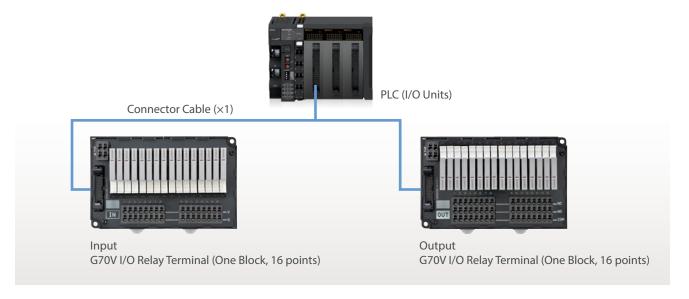
Compatible with PLC Cabling for Further Wiring Savings





Using a G70V I/O Relay Terminal

You can connect 16 I/O points with just one cable with connectors to reduce wiring work.



Relay sockets, Sockets for Relays with Forcibly Guided Contacts PYF-PU/PTF-PU/P2RF-PU, P7SA-PU Contributed to reduction of wiring man-hours and maintenance man-hours on the control panel

By unifying into Push-In Plus, unification of tools

Double-wire Terminals on the Coil Side and

Short Bars on the Contact Side Reduce Crossover Wiring Time

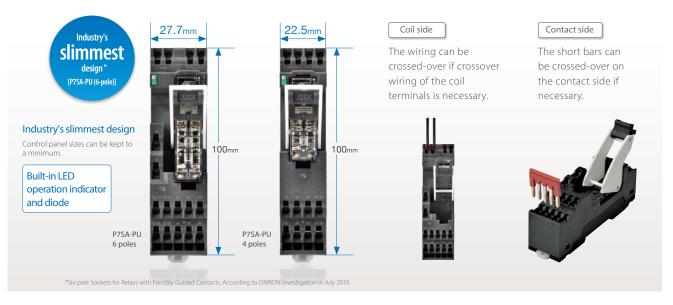
PYF-PU/PTF-PU/P2RF-PU

Complete lineup of Push-In Plus relay sockets



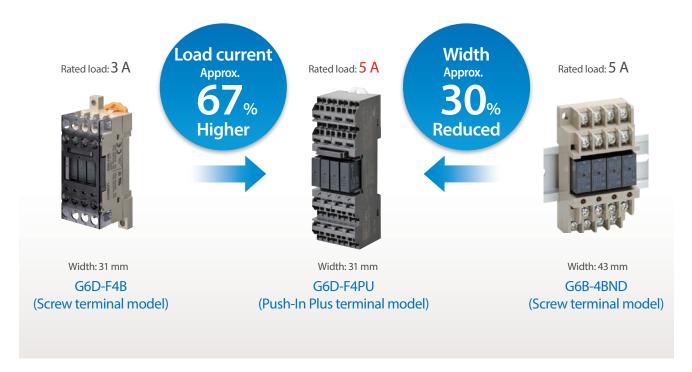
P7SA-PU

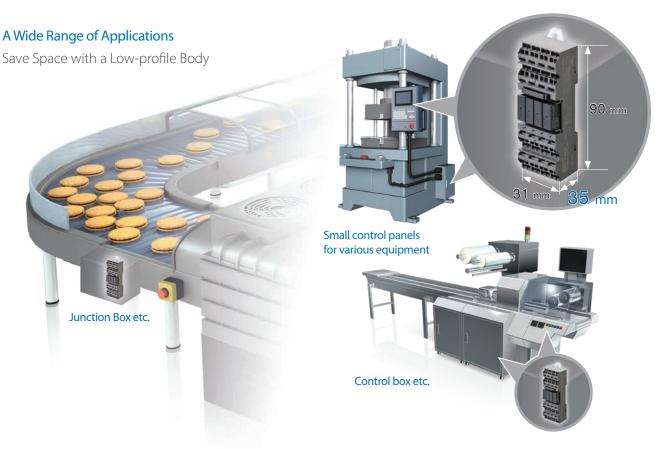
Featuring Sockets with Push-In Plus technology on Sockets for G7SA Relays with Forcibly Guided Contacts



Teminal Relays G6D-F4PU/G3DZ-F4PU Save Space with a Compact Body

High-capacity Load and Slim Body





Product Lineup

PYF-PU-Applicable Models

Applicable models	General-purpose Relays		SSRs	Timers	
	MY2	MY4	G3F / G3FD	H3Y(N)-2-B	H3Y(N)-4-B
No. of poles	2	4	1	2	4
Socket model	PYF-08-PU	PYF-14-PU	PYF-08-PU	PYF-08-PU-L*	PYF-14-PU-L*
Appearance	1 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Marin	The state of the s	and the state of t	The state of the s

^{*}A release lever is not included.

PTF-PU-Applicable Models

Applicable models	General-purpose Relays			SSRs	Temperatur	e Controllers
	LY2□	LY2□-CR	LY4□	G3H/G3HD /G9H	E5L-A □	E5L-C □
No. of poles	2	2	4	1	-	-
Socket model	PTF-08-PU	PTF-08-PU-L*	PTF-14-PU-L*	PTF-08-PU	PTF-14-PU-L*	PTF-14-PU-L*
Appearance					The same of the sa	

^{*}A release lever is not included.

P2RF-PU-Applicable Models

Applicable models	General-purpose Relays		SSRs	Timers		Liquid Leakage Sensor Amplifiers
	G2R-1-S	G2R-2-S	G3R-I/O / G3RZ	H3RN-1-B	H3RN-2-B	K7L-□-B
No. of poles	1	2	1	1	2	-
Socket model	P2RF-05-PU	P2RF-08-PU	P2RF-05-PU	P2RF-05-PU	P2RF-08-PU	P2RF-08-PU
Appearance				III and		

P7SA-PU-Applicable Models

Applicable models	Relays with Forcibly Guided Contacts G7SA			
No. of poles	4	6		
Socket model	P7SA-10F-ND-PU DC24	P7SA-14F-ND-PU DC24		
Appearance	33			

Teminal Relays

	Relay output	Power MOS FET Relay output
Model	G6D-F4PU*	G3DZ-F4PU*
AC load	5 A at 250 VAC	0.3 A at 3 to 264 VAC
DC load	5 A at 30 VDC	0.3 A at 3 to 125 VDC
Appearance		

^{*}Relays are also available with screw terminals.

Slim I/O Relays

	Basic model	With latching lever	For microloads (gold-plated contacts)	Solid State Relays (SSRs)
Model	G2RV-ST500*	G2RV-ST501*	G2RV-ST500-AP*	G3RV-ST500*
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				

^{*}Relays are also available with screw terminals.

I/O Relay Terminals

		For ir	nputs	For outputs		
Model	No internal connections	G70V-SID16P-1*	G70V-SID16P*	G70V-SOC16P-1*	G70V-SOC16P*	
	Internal connections	G70V-SID16P-1-C16*	G70V-SID16P-C16*	G70V-SOC16P-1-C4*	G70V-SOC16P-C4*	
Trans	istor output	PNP	PNP NPN PNP		NPN	
Appearance						

^{*}Models with Sockets (nine models total) are also available.

Replacement Parts and Accessories Available for Different Applications

Accessories Accessories that make I/O products more convenient

	Short Bars		Separator Plate	Isolation plate	PLC Interface Units / PLC Cables	Connector Cables for I/O Relay Terminal
Model	PYDN	XW5S-P2.5	XW5Z-EP12	P2RV-P3.1ST	P2RVC / P2RV	XW2Z-R
Application	Reducing wiring and device connections		Insulation	Insulation / Partition	Reducing wiring	Reducing wiring
Applicable models	PYF-PU P2RF-PU G2RV-ST G3RV-ST G6D-F4PU G3DZ-F4PU	P7SA-PU	G2RV-ST G3RV-ST	G2RV-ST G3RV-ST	G2RV-ST G3RV-ST	G70V
Appearance	Product color • • • • • • • • • • • • • • • • • • •					

Note: Do not use this document to operate the Unit.

Forcibly Guided Contacts Datasheet (Cat. No. J120) for details.

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