OMRON

Sockets, Slim I/O Relays, I/O Relay Terminals with Push-In Plus technology

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



Sockets for G7SA Relays Series added Oct. 2016

- Sockets with Push-In Plus technology 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
 *Excluding G70V and P7SA-PU

New Value For Control Panels

Control Panels: The Heart of Manufacturing Sites.

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

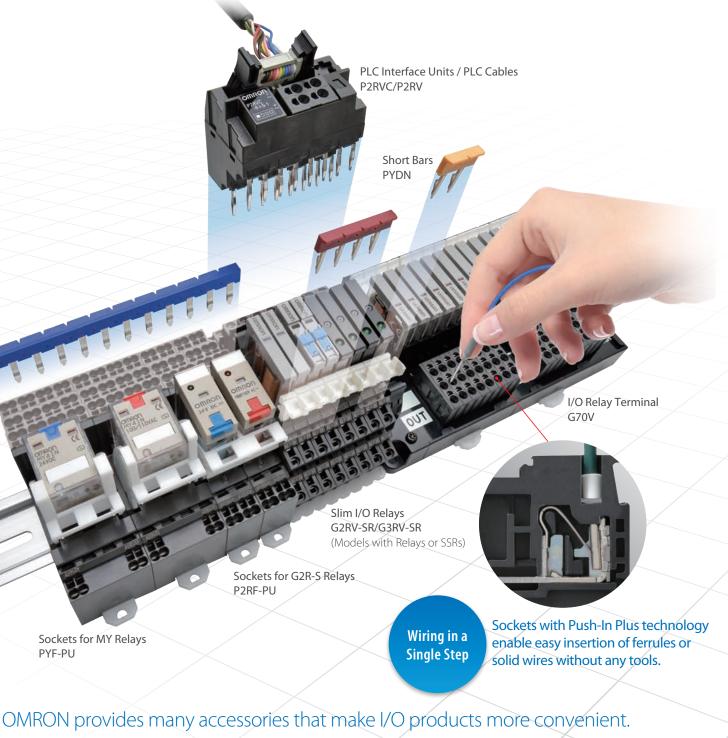
And if control panel design, control panel manufacturing processes, and human interaction with them are innovated, control panel manufacturing becomes simpler and takes a leap forward.

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

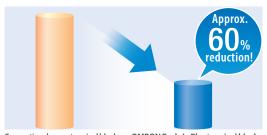
Combining a Wide Selection of Relays with the Easy-to-use Sockets with Push-In Plus technology Series Reduces Wiring and Workload



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



Conventional screw terminal blocks OMRON 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 technology 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 technology, there is

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

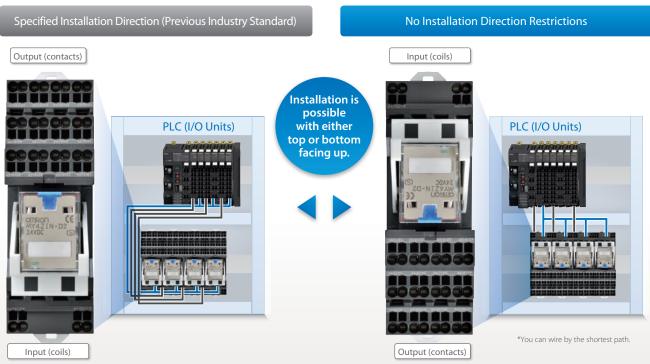


PYF-PU, P2RF-PU, G2RV-SR/G3RV-SR Installation with Either Top or Bottom Facing Up for More Flexible In-panel Designing



Back of Sockets with

Push-In Plus technology 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)



Sockets with Push-In Plus technology Features

Standard-feature Release Levers

All Sockets with Push-In Plus technology 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.



Note: Refer to individual datasheets for details.

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

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

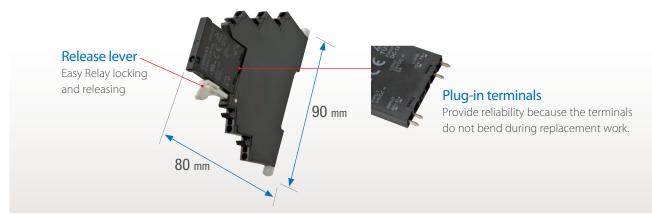
G2RV-SR

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

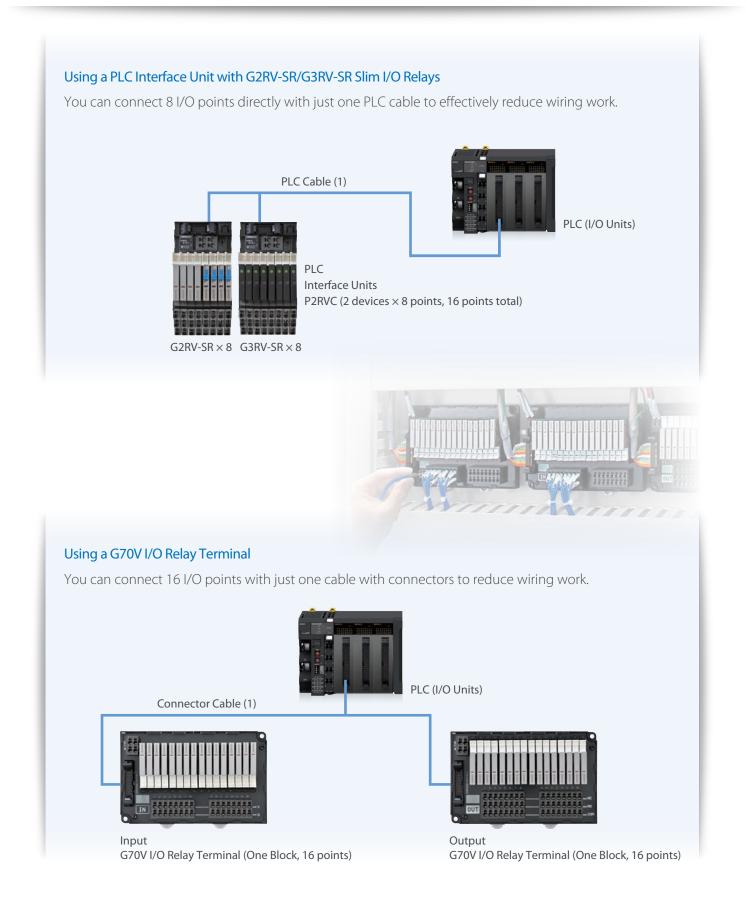


G3RV-SR

Optimal SSR (Solid State Relay) with high-frequency, high-speed switching in the same slim shape and size as the G2RV-SR

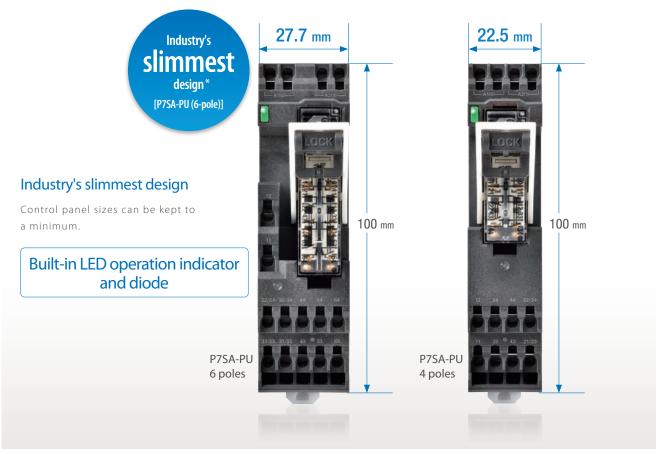


Slim I/O Relays, I/O Relay Terminals G2RV-SR/G3RV-SR, G70V PLC Cables Reduce Wiring Even Further



Sockets for Relays with Forcibly Guided Contacts P7SA-PU Reduced Control Panel Size and Less Wiring Work

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



*Six-pole Sockets for Relays with Forcibly Guided Contacts. According to OMRON investigation in July 2016.

Double-wire Terminals on the Coil Side and Short Bars on the Contact Side Reduce Crossover Wiring Time

Coil side

The wiring can be crossed-over if crossover wiring of the coil terminals is necessary.



Contact side

The short bars can be crossed-over on the contact side if necessary.







The G7SA is a compact, slim Relay with Forcibly Guided Contacts that meets EN standard requirements (EN 50250 / Class A VDE certification).

By using a forcibly guided contact mechanism, this Relay can detect the occurrence of contact welding via the control circuit.

With a lineup that includes slim Sockets with Push-In Plus technology, control panel sizes can be kept to a minimum, and wiring time can be reduced.



Automobile production line

Product Lineup

Sockets with Push-In Plus technology

PYF-PU-Applicable Models

Applicable	General-purpose Relays		SSRs	Timers	
models	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			Pane	Panel	Panel

*A release lever is not included.

P2RF-PU-Applicable Models

Applicable	General-purpose Relays		SSRs	Timers		Liquid Leakage Sensor Amplifiers
models	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	Panel		Panel	Panel	Pane	Panel

P7SA-PU-Applicable Models (Released in October 2016)

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



Slim I/O Relays and I/O Relay Terminals with Push-In Plus technology

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		Panel	Panel	Panel

*Relays are also available with screw terminals.

I/O Relay Terminals On Sale from April 2017: Four New Models

These new models provide internal connections between I/O terminals to greatly reduce wiring work and maximize space efficiency (input models: 16 point/common, output models: 4 points/common).

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

*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

	Shor	t Bars	Separator Plate	PLC Interface Units / PLC Cables	Connector Cables for I/O Relay Terminal
Model	PYDN	XW5S-P2.5	XW5Z-EP12	P2RVC / P2RV	XW2Z-R
Application	-	ing and device	Insulation	Reducing wiring	Reducing wiring
Applicable models	PYF-PU P2RF-PU G2RV-SR G3RV-SR	P7SA-PU	G2RV-SR G3RV-SR	G2RV-SR G3RV-SR	G70V
Appearance		e PYDN-7.75 model.			



Refer to the PYF-D-PU/P2RF-D-PU Sockets with Push-In Plus technology Datasheet (Cat. No. J212), the G2RV-SR/G3RV-SR Slim I/O Relays Datasheet (Cat. No. J214), the G70V I/O Relay Terminal Datasheet (Cat. No. J215), and the G7SA Relays with Forcibly Guided Contacts Datasheet (Cat. No. J120) 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 Industri Kyoto, JAPAN Contact: www.ia.ou	al Automation Company nron.com	Authorized Distributor:
Regional Headquarters OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388	OMRON ELECTRONICS LLC 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787	
OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2) Alexandra Technopark	OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road.	© OMRON Corporation 2016-2017 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice.

PuDong New Area, Shanghai, 200120, China

Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711 CSM_1_6_0917 Cat. No. J213-E1-04