OMRON

Relay, Sockets with Push-In Plus technology

PYF-PU (Sockets for MY Relays)

PTF-PU (Sockets for LY Relays)

P2RF-PU (Sockets for G2R-S Relays)

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

G6D-F4PU/G3DZ-F4PU (Terminal Relays)

G70V (I/O Relay Terminals)

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



- 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.

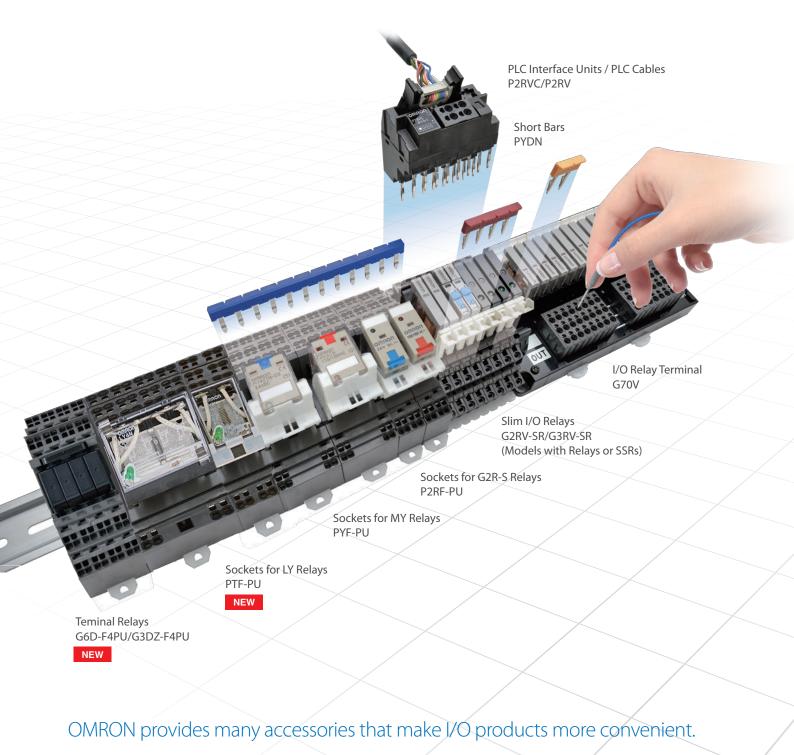


A New Standard for Reducing Work in Control Panel

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

OMRON

3



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.

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.



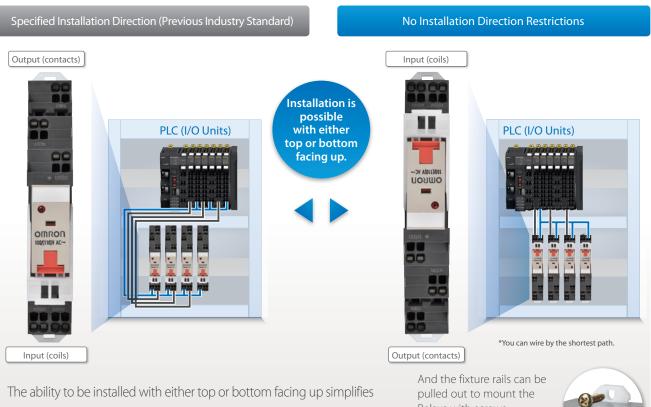


Installation with Either Top or Bottom Facing Up for More Flexible In-panel Designing



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, PTF-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.

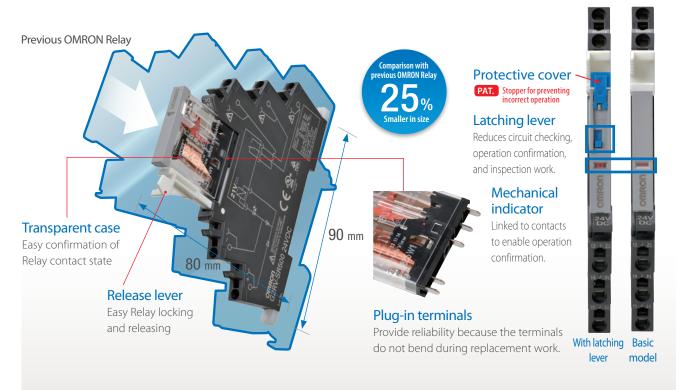


Slim I/O Relays G2RV-SR/G3RV-SR

Compact Design and Unique Structure Help Save Space

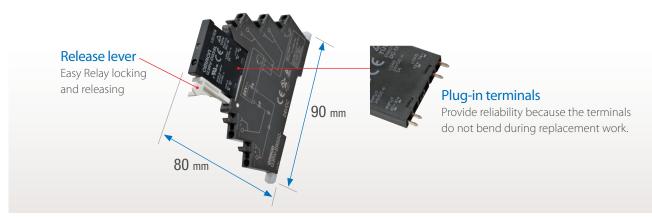
G2RV-SR

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



G3RV-SR

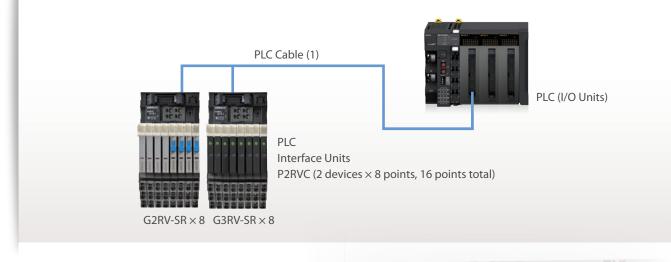
Optimal SSR (Solid State Relay) with high-frequency, high-speed switching in the same slim shape and size as the G2RV-SR



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

Using a PLC Interface Unit with G2RV-SR/G3RV-SR Slim I/O Relays

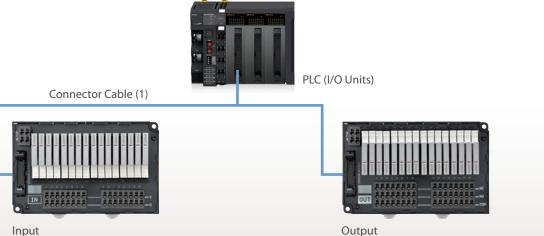
You can connect 8 I/O points directly with just one PLC cable to effectively reduce wiring work.





Using a G70V I/O Relay Terminal

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



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

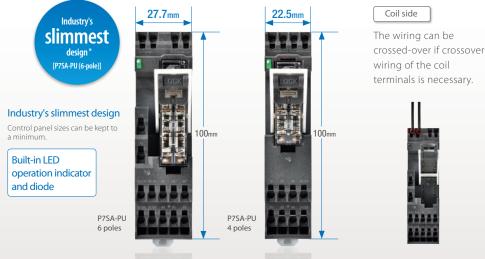
Output G70V I/O Relay Terminal (One Block, 16 points) Relay sockets, Sockets for Relays with Forcibly Guided Contacts PYF-PU/PTF-PU/P2RF-PU, P7SA-PU Contributed to reduction of wiring man-hours and maintenance man-hours on the control panel



P7SA-PU

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

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



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

Contact side



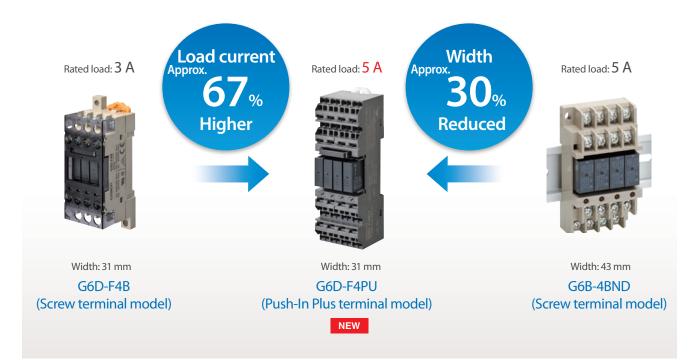


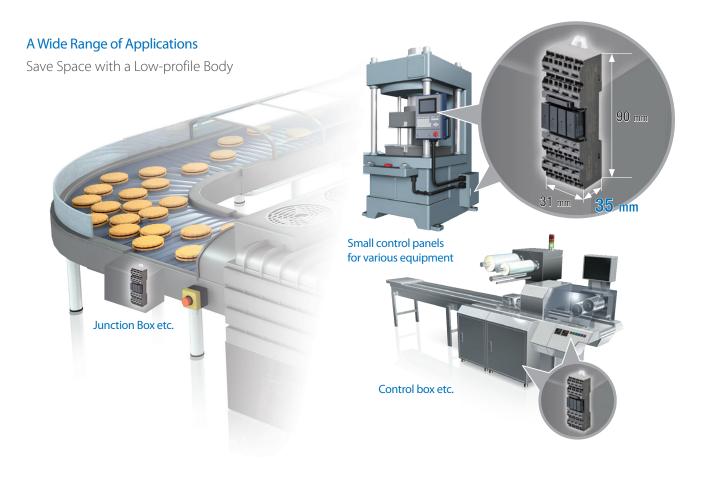
*Six-pole Sockets for Relays with Forcibly Guided Contacts. According to OMRON investigation in July 2016

OMRON 9

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					

*A release lever is not included.

PTF-PU-Applicable Models

Applicable models	General-purpose Relays			SSRs	Temperature 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						

*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		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						

P7SA-PU-Applicable Models

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

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-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				

*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	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	PLC Interface Units / PLC Cables	Connector Cables for I/O Relay Terminal
Model	PYDN	XW5S-P2.5	XW5Z-EP12	P2RVC / P2RV	XW2Z-R
Application	Reducing wiring and device connections		Insulation	Reducing wiring	Reducing wiring
Applicable models	PYF-PU P2RF-PU G2RV-SR G3RV-SR G6D-F4PU G3DZ-F4PU	P7SA-PU	G2RV-SR G3RV-SR	G2RV-SR G3RV-SR	G70V
Appearance	Product color • • •				

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.

Refer to the PYF- D-PU/PTF- - PU/P2RF- - PU/P2RF- - 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), the G6D-F4PU/G3DZ4-F4PU, G6D-F4B/G3DZ-F4B Teminal Relays Datasheet (Cat. No. J228), and the G7SA Relays with Forcibly Guided Contacts Datasheet (Cat. No. J120) for details.

OMRON Corporation Industrial Automation Company Kyoto, JAPAN

Contact: www.ia.omron.com

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 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 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 (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 Authorized Distributor:

© OMRON Corporation 2016-2019 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice.

CSM 1_11_1019 Cat. No. J213-E1-07