

Relay series with push-in plus technology

PYF-PU, P2RF-PU, G2RV-SR/ G3RV-SR, G70V

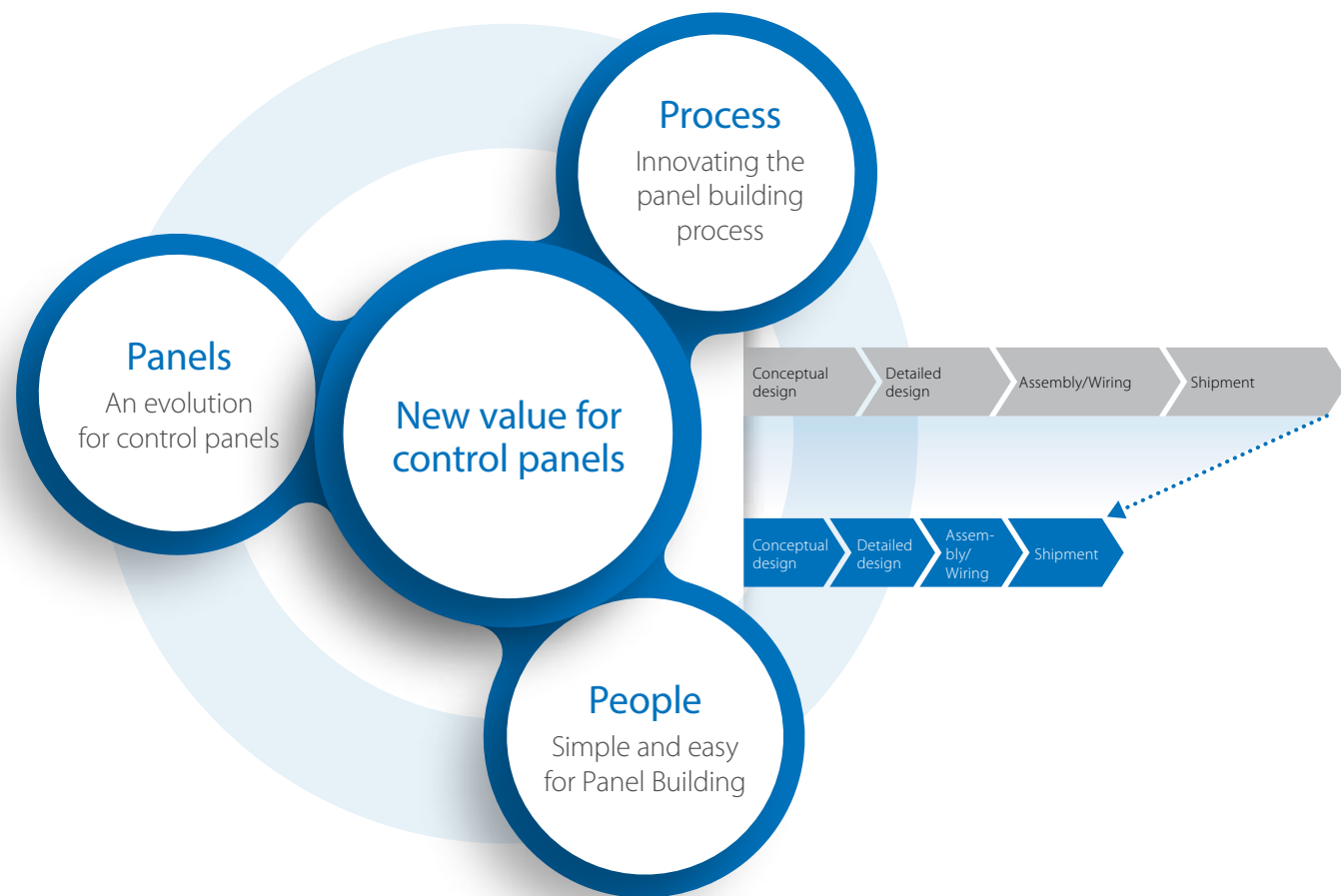


- Push-in plus technology for easy wiring
- More flexible in-panel wiring
- Compact design and unique structure

New value for control panels

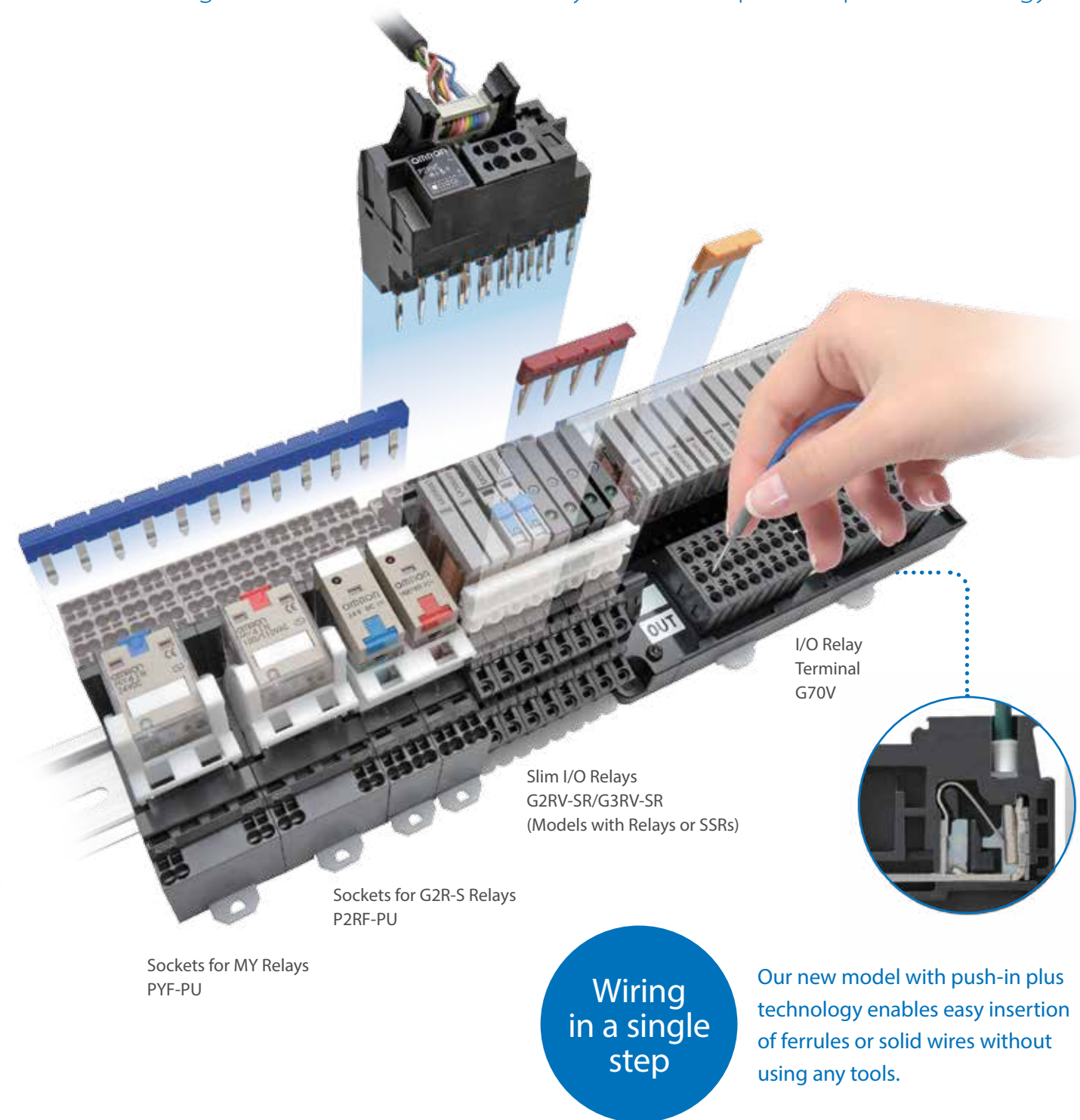
Control panels: The heart of manufacturing sites

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. We 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.



Value Design for Panel
 *1 Value Design for Panel
 Our shared Value Design for Panel (herein after referred to as Value Design) concept for the specifications of products used within control panels will create new value for our control panel customers. Combining multiple products that share the Value Design concept will further increase the value provided.

Less wiring and work with the new relay series with push-in plus technology



Wiring in a single step

Our new model with push-in plus technology enables easy insertion of ferrules or solid wires without using any tools.

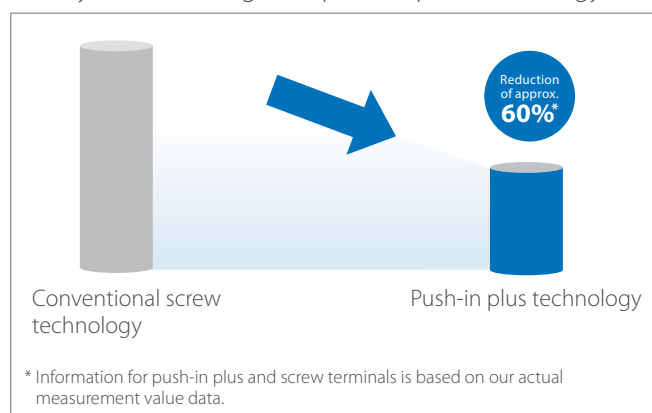
We provide many accessories that make I/O products more convenient.

Push-in plus technology for easy wiring

Fast wiring via push-in plus technology

Just insert the wires – no tools required. Do all your wiring in less than half the time needed with screw type terminals.

Greatly reduce wiring with push-in plus technology.



Screwdriver held in place to free both of 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

Our push-in plus technology is as easy as inserting to an earphone jack – reducing your work load while improving wiring quality at the same time.

Held firmly in place

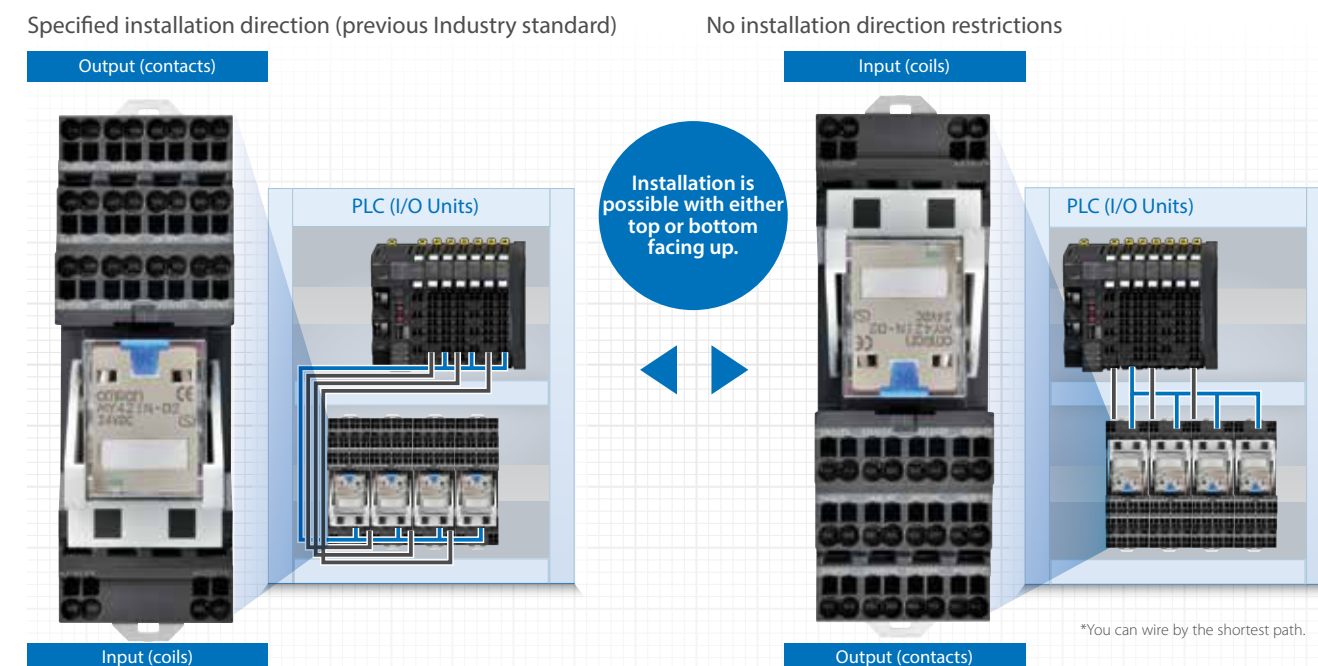
Even though less insertion force is required than other relays series with push-in technology, the wires are held firmly in place – thanks to the advanced mechanism design and manufacturing technology.

No retightening required

Retightening screws is often necessary for screw terminals, but with push-in plus, there is no (re) tightening.



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 Relays series 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.



Relay series with push-in plus technology

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 used to downsize panels by 25% over our previous Relays.

Comparison with previous Omron Relay
25% Smaller in size

Transparent case
Easy confirmation of Relay contact state

Release lever
Easy Relay locking and releasing

Plug-in terminals
Provide reliability because the terminals don't bend during replacement work.

Mechanical indicator
Linked to contacts to enable operation confirmation.

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

PAT. Stopper for preventing incorrect operation
Protective cover

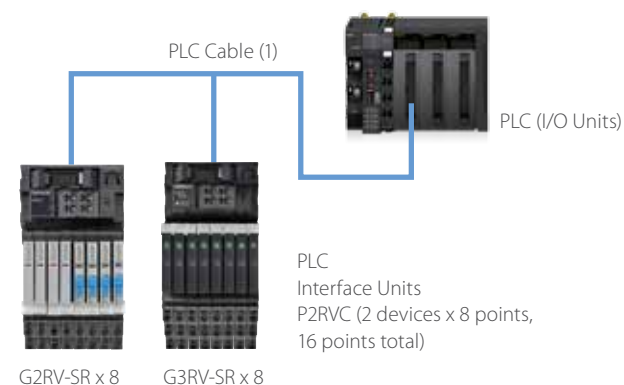
80 mm
90 mm

With latching lever Basic model

G2RV-SR/G3RV-SR, G70V - PLC cables reduce wiring even further.

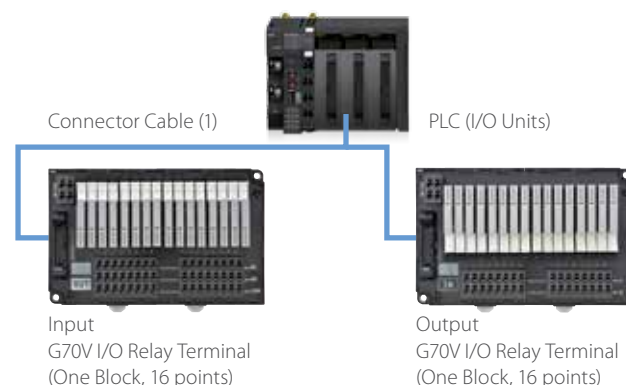
Using a PLC interface with G2RV-SR/ G3RV-SR slim I/O relays

Thanks to P2RVC it is possible to connect 8 I/O points directly with just one PLC cable.



Using a G70V I/O Relay Terminal

G70V is the perfect Relay terminal to connect 16 I/O points reducing wiring work and maximize space efficiency. From 2017 the G70V will also be available with internal connection (input models: 16 point/common, output models: 4 points/common).



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				

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.

Slim I/O Relays

		For inputs		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*
Transistor output		PNP	NPN	PNP	NPN
Appearance					

Replacement Parts and Accessories Available for Different Applications

Accessories that make I/O products more convenient

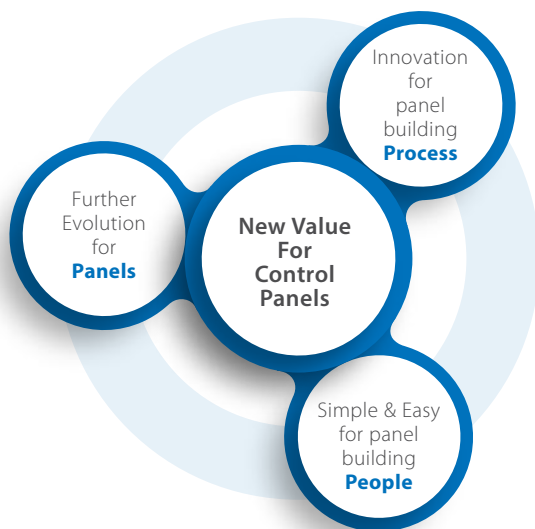
	Short Bars		Separator Plate	PLC Interface Units / PLC Cables	Connector Cables for I/O Relay Terminal
Model	PYDN	XW5S-P2.5	XW5Z-EP12	P2RVC / P2RV	XW2Z-R
Application	Reducing wiring and device connections		Insulation	Reducing wiring	Reducing wiring
Applicable models	PYF-PU P2RF-PU G2RV-SR G3RV-SR	P7SA-PU	G2RV-SR G3RV-SR	G2RV-SR G3RV-SR	G70V
Appearance	 Product color ● ● ● The photo shows the PYDN-7.75 model.				

Would you like to know more?

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Panels

- Space saving
- Vibration resistance
- Improve airflow

Process

- Designing with CAD & Eplan Library
- Swift customisation
- Express delivery within Europe

People

- Front-in and front-release Easy wiring

Our Panelbuilding portfolio

NEW 2017 Released in April



Switch Mode Power Supplies (30W)



DIN Track Terminal Blocks (5.2 mm/6.2 mm)



I/O Relay Terminal models with internal terminal connection

2016 Released In October



Switch Mode Power Supplies (240W/480W)



Sockets for Safety Relays



Push-In Plus Series Pushbutton Switches



Power Monitors (Mounted On-Panel)



Machine Automation Controller

2016 Released In April



Switch Mode Power Supplies (60/120W)



Solid-state Timers



Measuring and Monitoring Relays



Power Monitors (DIN Track mounting)



Common Sockets (for MY/H3Y(N)-B)



Common Sockets (for G2R-S/H3RN-B/K7L-B)



Slim I/O Relays



Solid-state Timers



Solid-state Timers



Liquid Leakage Sensor Amplifiers



I/O Relay Terminals



DIN Track Terminal Blocks

2015 Released



Digital Temperature Controllers



Solid State Relays for Heaters



EtherCAT Slave Terminals



Uninterruptible Power Supply (UPS)