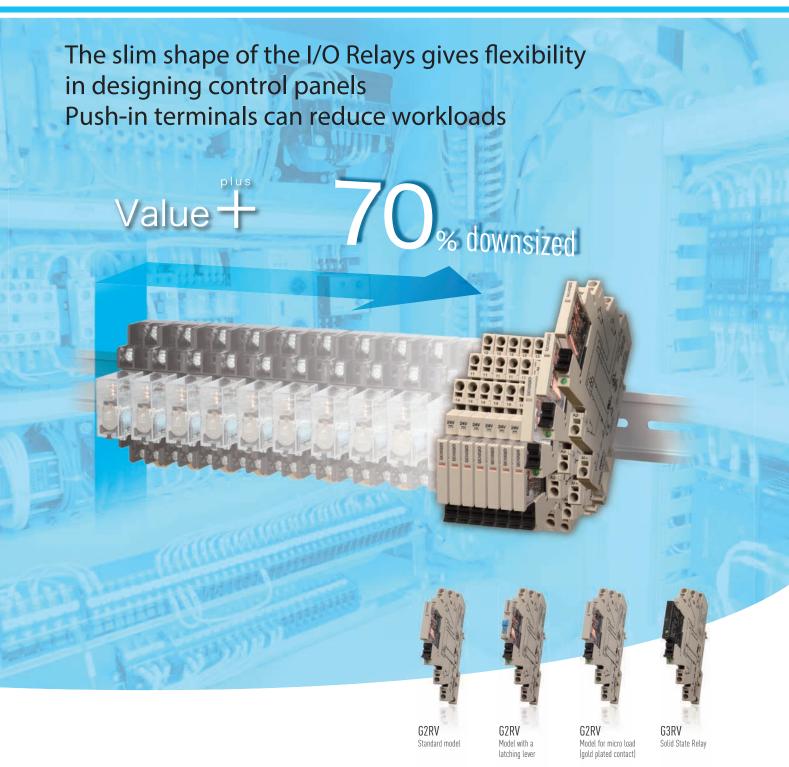


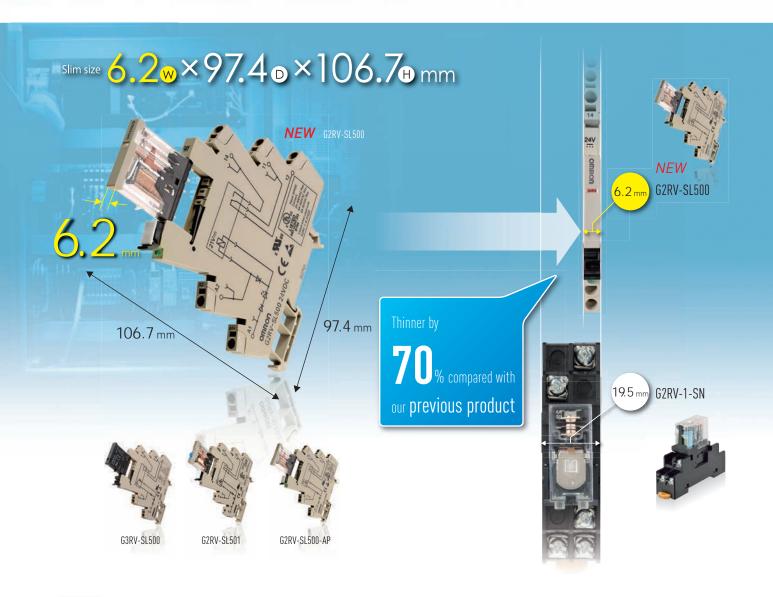
NEW

Slim I/O Relays G2RV/G3RV Series



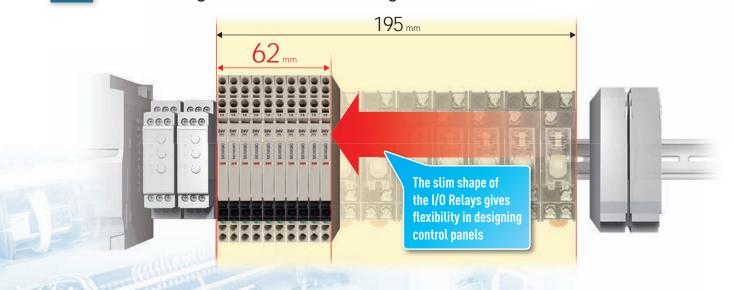


The slim shape of the I/O Relays gives flexibility in designing control panels



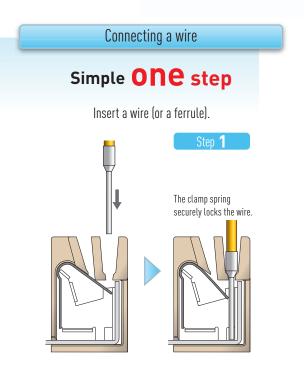
Advantages of Downsizing

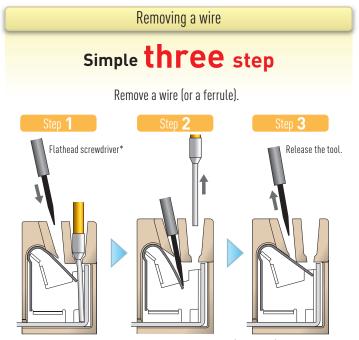
AMU





With push-in terminals, you can reduce wiring efforts and work processes *When you use ferrules or solid wires





*Use a flat-bladed screwdriver with parallel-tips of 2.5 mm diameter (3.0 mm max.).



Improving Work Efficiency

With a push-in terminal, you can finish wiring in

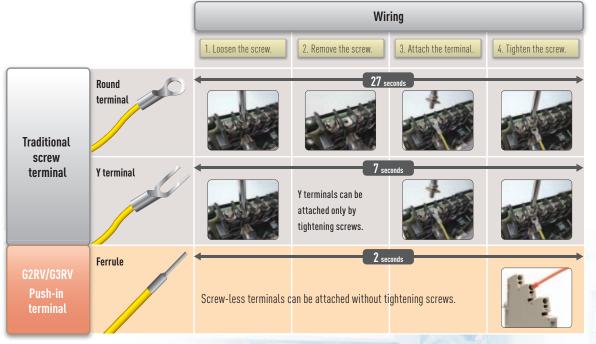
2 seconds by inserting a wire.

It is **25** seconds shorter

than with a round terminal.

It is **5** seconds shorter

than with a Y terminal.



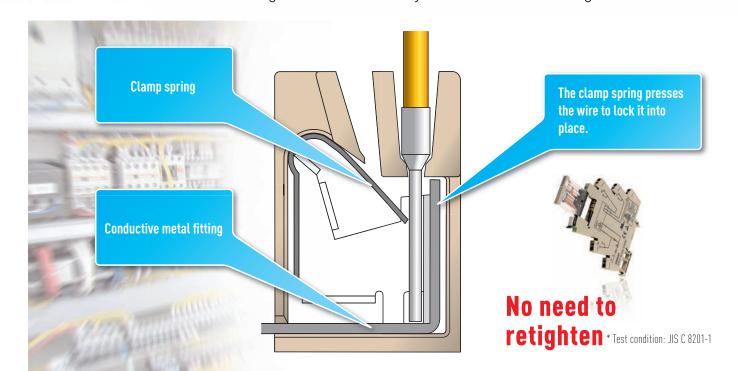
*Based on our validation test results.



OMRON's push-in terminal blocks have

spring structures which prevent contacts from becoming loose.

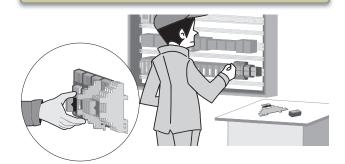
The screws do not get loosened, and you don't have to retighten them.



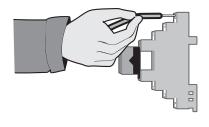


Improving Work Efficiency (Compared with Screw Terminals)

1. No need to retighten terminals after assembly.



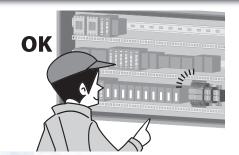
3. No need to retighten terminals after installing the control panel on the shop floor.



2. The terminals won't become loose due to vibration and shock during transportation and delivery. Therefore retightening is not necessary.

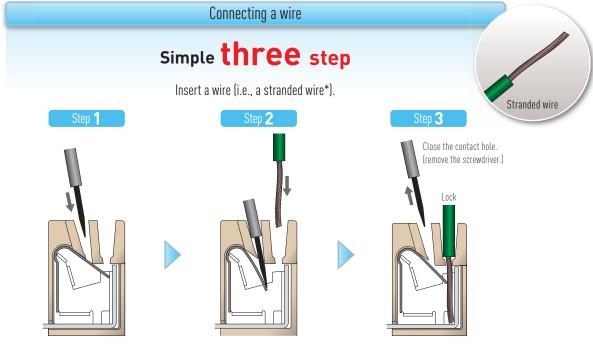


4. The terminals won't become loose due to vibration and shock during operation.





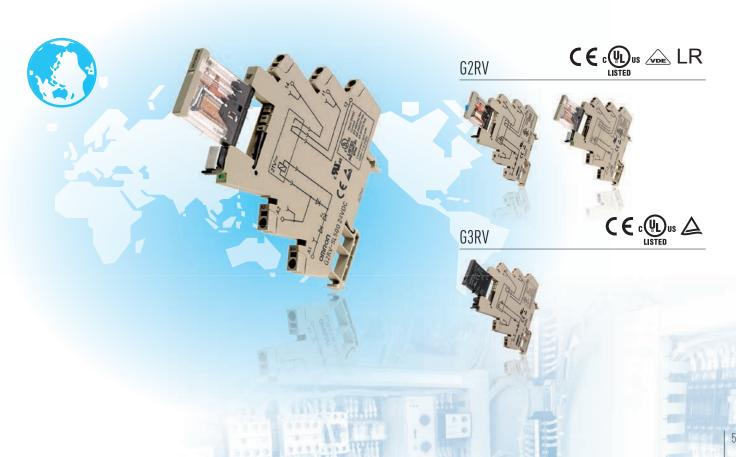
You can connect stranded wires easily without using crimp terminals.



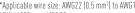
*Applicable wire size: AWG22 (0.5 mm²) to AWG14 (2.5 mm²)



Reliable design standard that is acceptable around the world

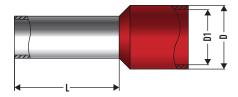






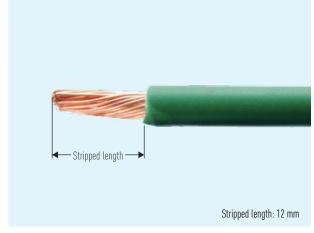
*Applicable wire size: AWG22 (0.5 mm²) to AWG14 (2.5 mm²) *DIN46228, part4/09.90

Ferrule Shape



L: 12 mm, Related standard: DIN46228

Wire Stripped View



When using a stranded wire (or when a crimp terminal is not used) *Applicable wire size: AWG22 (0.5 mm²) to AWG14 (2.5 mm²)

<Note> Minus Screw Terminals

For G2RV-SL700 and G3RV-SL700 Series, different stripped lengths apply to ferrules or stranded wires. Refer to the catalog for details.

Precautions for Selecting Ferrules

- Select a ferrule that is applicable to the wire size being used. Also the L length must match the wire stripped size for the terminal block.
- Ensure that the D diameter is smaller than the maximum wire sheathed diameter for the terminal block.
- Ensure that the D1 diameter is larger than the wire sheathed diameter.

Accessories



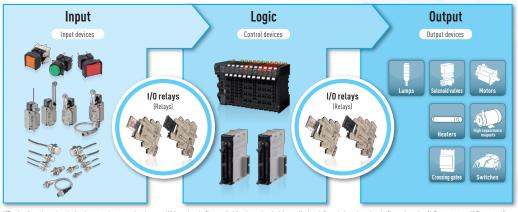




Accessory	Type and box quantity	Model	Color		Model number
			Red	R	P2RVM-020R
	Bar with 2 poles (10 bars/box)	P2RVM-020	Blue	S	P2RVM-020S
			Black	В	P2RVM-020B
			Red	R	P2RVM-030R
	Bar with 3 poles (10 bars/box) P2RVM-030 Bar with 4 poles (10 bars/box) P2RVM-040 Bar with 10 poles (10 bars/box) P2RVM-100	Blue	S	P2RVM-030S	
			Black	В	P2RVM-030B
			Red	R	P2RVM-040R
Crossbar	Bar with 4 poles (10 bars/box)	P2RVM-040	Blue	S	P2RVM-040S
			Black	В	P2RVM-040B
			Red	R	P2RVM-100R
	Bar with 10 poles (10 bars/box)	P2RVM-100	Blue	S	P2RVM-100S
			Black	В	P2RVM-100B
			Red	R	P2RVM-200R
	Bar with 20 poles (10 bars/box)		Blue	S	P2RVM-200S
			Black	В	P2RVM-200B
Label -	Plastic labels (5 sheets (600 labels)/box (1 sheet = 120 labels))	R99-15 for G2RV			R99-15 for G2RV
Lauel	Stickers (10 sheets (4.840 lahels)/han (1 sheet = 484 lahels))	R99-16 for G2RV			R99-16 for G2RV

Applications

This product is an I/O relay used in a control circuit. It can be used for inputting data to control devices and for activating output devices.





1/0 relay functions: insulating input and output circuits, amplifying signals (i.e., switching large load with small signals), and changing signals (i.e., changing N.O. contact to N.C. contact)

List of Models

G2RV Slim I/O Relay

Wire connection	Туре	Latching lever	Coil specification		Model number	
		No	DC	12	G2RV-SL500	
				24	G2RV-SL500	
	Standard model		AC/DC	24	G2RV-SL500	
				48	G2RV-SL500	
			AC	110	G2RV-SL500	
				230	G2RV-SL500	
Push-in		Yes	DC	24	G2RV-SL501	
terminal			AC/DC	24	G2RV-SL501	
		No	DC	12	G2RV-SL500-AP	
	Model for micro load		DC	24	G2RV-SL500-AP	
			AC/DC	24	G2RV-SL500-AP	
				48	G2RV-SL500-AP	
			AC	110	G2RV-SL500-AP	
			AL	230	G2RV-SL500-AP	
	Standard model	No	DC	12	G2RV-SL700	
				24	G2RV-SL700	
			AC/DC	24	G2RV-SL700	
				48	G2RV-SL700	
			AC	110	G2RV-SL700	
				230	G2RV-SL700	
Ainus screw		Yes	DC	24	G2RV-SL701	
terminal			AC/DC	24	G2RV-SL701	
			DC.	12	G2RV-SL700-AP	
			DC	24	G2RV-SL700-AP	
	Model for micro load	No	AC/DC	24	G2RV-SL700-AP	
		INU	MU/ DC	48	G2RV-SL700-AP	
			AC	110	G2RV-SL700-AP	
				230	G2RV-SL700-AP	

Relays for Replacement

Туре	Latching lever	Model	Coil specification		Model number
	No	G2RV-1-S	DC	11	G2RV-1-S
Standard				21	G2RV-1-S
model				48	G2RV-1-S
	Yes	G2RV-1-SI	DC	21	G2RV-1-SI
Model	No	G2RV-1-S-AP	DC	11	G2RV-1-S-AP
for micro load				21	G2RV-1-S-AP
				48	G2RV-1-S-AP

When ordering, designate the coil specification or the input specification.

G3RV Slim I/O Solid State Relay

Wire connection	Applied output load	Zero cross function	Input specifi	cation	Model number
		-	DC	12	G3RV-SL500-D
				24	G3RV-SL500-D
	for DC load		- AC/DC	24	G3RV-SL500-D
	IOI DC MAN			48	G3RV-SL500-D
				110	G3RV-SL500-D
				230	G3RV-SL500-D
			DC	12	G3RV-SL500-A
				24	G3RV-SL500-A
Push-in		Yes	AC/DC	24	G3RV-SL500-A
terminal		162	AC/DC	48	G3RV-SL500-A
			AC	110	G3RV-SL500-A
			ML	230	G3RV-SL500-A
	for AC load		DC	12	G3RV-SL500-AL
			DU	24	G3RV-SL500-AL
		No .	AC/DC	24	G3RV-SL500-AL
			AL/UL	48	G3RV-SL500-AL
			AC	110	G3RV-SL500-AL
			AL	230	G3RV-SL500-AL
	for DC load	-	DC	12	G3RV-SL700-D
				24	G3RV-SL700-D
			AC/DC	24	G3RV-SL700-D
				48	G3RV-SL700-D
			AC	110	G3RV-SL700-D
				230	G3RV-SL700-D
	for AC load —	Yes	DC	12	G3RV-SL700-A
				24	G3RV-SL700-A
linus screw			AC/DC	24	G3RV-SL700-A
terminal				48	G3RV-SL700-A
			AC	110	G3RV-SL700-A
			AL	230	G3RV-SL700-A
			DC	12	G3RV-SL700-AL
		No	DC	24	G3RV-SL700-AL
			AC/DC	24	G3RV-SL700-AL
				48	G3RV-SL700-AL
			AC	110	G3RV-SL700-AL
			AL	230	G3RV-SL700-AL

Sold State Relays for Replacement

Output load	Zero cross function	Input specification		Model number
		DC 24 G3RV-D03SL	12	G3RV-D03SL
for DC load	-		G3RV-D03SL	
			48	G3RV-D03SL
		12 G3RV-202S DC 24 G3RV-202S	12	G3RV-202S
	Yes		G3RV-202S	
for AC load			48	G3RV-202S
IUI AC LUdu			12	G3RV-202SL
	No	DC	24	G3RV-202SL
			48	G3RV-202SL



	First choice	Speedy, simple operation checks with latching levers	Higher reliability with gold plated contacts	High speed, frequent switching with semi-conductors
	Standard model G2RV-SL500/700	Model with a latching lever	Model for micro load (gold plated contact) G2RV-SL500-AP/700-AP	Solid State Relay (SSR) G3RV-SL500/700
AC load	6 A at 250 VAC	6 A at 250 VAC	50 mA at 30 VAC	2 A at 100 to 240 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

New Value for Control Panels

OMRON offers products and services to solve your diverse control panel challenges and contributes to growing your business.



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