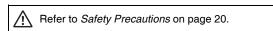
G2RV-SR/G3RV-SR

Global standard size, low profile slim I/O relay with width 6.2 mm, slim I/O solid state relay

- Realized about 25% lower profile than conventional products, contributing to further miniaturization of the control panel.
- Push-In Plus technology are used to save wiring work in comparison with conventional screw terminals.
 (Wiring time is reduced by 60%* in comparison with traditional screw terminals.)
- No screw loosening means maintenance-free application, realizing high reliability
- 'Hand-free' structure that holds an inserted flat-blade screwdriver to achieve easier wiring work for stranded wires
- Screw terminal is also stocked to meet the screw type needs.
- Mounted relay or solid-state relay has a plug-in terminal that is difficult to bend at the time of exchange.
- Coil surge absorption circuit is equipped as standard.
- * According to OMRON actual measurement data from November 2015.





For the recent information on models that have been certified for safety standards, refer to your OMRON website.

Slim I/O Relay Types

G2RV-SR series mounted relay: electromagnetic relay from page 2
G3RV-SR series mounted relay: solid state relay from page 10

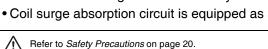
Common matter

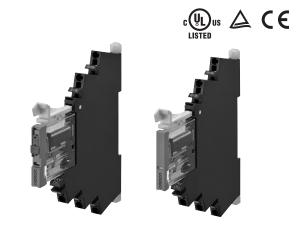
Common precautions	from page 20
Common accessories (order separately)	from page 26

Slim I/O Relay

Global standard size, low profile slim I/O relay with width 6.2 mm

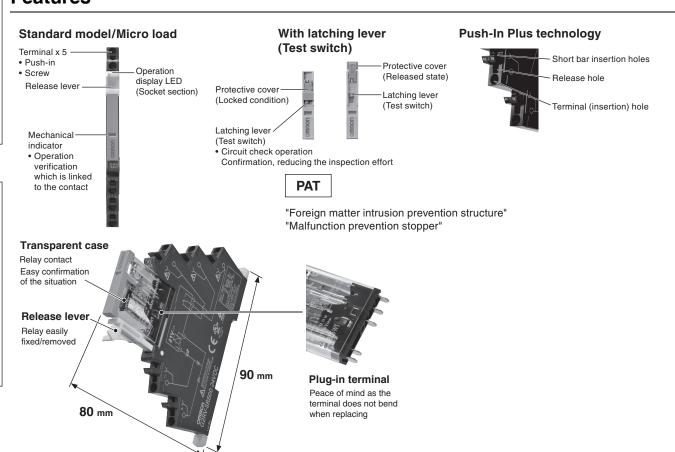
- Realized about 25% lower profile than conventional products, contributing to further miniaturization of the control panel.
- Realized opening and closing ability with one pole 6 A slim
- Micro load products for one pole 50 mA using Au-plated contacts for small load switching also available.
- Since G2RV is a transparent case, confirming the state of the contact with the naked eye is possible, and easy to confirm abnormality on-site (installed location).
- Screw terminal is also stocked to meet the screw type
- Mounted relay uses plug-in terminals that are difficult to bend when exchanging.
- G3RV-SR featuring a solid state relay similar in shape to G2RV-SR also available.
- Coil surge absorption circuit is equipped as standard.





For the recent information on models that have been certified for safety standards, refer to your OMRON website.

Features



Model Number Structure

Model Number Legend

G2RV-SR □□ □ - □ (1) (2) (3) (4) (5) (6)

(1) Basic model name G2RV: Slim I/O Relay

(2) Sub type

(3) Terminal (wire connection)

(5) Contact structure 50: Push-In Plus Terminal Blank: Standard 70: Screw terminal AP: Microloads

(4) Latching lever (test switch) 0: Without latching lever

1: With latching lever

(6) Rated input voltage 12, 24 VDC 24, 48 VAC/VC 100, 110, 200, 230 VAC

Ordering Information

SR: Slim relay + integrated low profile socket

Terminal (Wire connection)	Classification	Latching lever (Test switch)	Rated inpu	t voltage (V)	Model
			D0	12	G2RV-SR500 DC12
			DC	24	G2RV-SR500 DC24
			AO/DO	24	G2RV-SR500 AC/DC24
		No	AC/DC	48	G2RV-SR500 AC/DC48
	Ctondord	INO		100	G2RV-SR500 AC100
	Standard		AC	110	G2RV-SR500 AC110
			AC	200	G2RV-SR500 AC200
				230	G2RV-SR500 AC230
Push-In Plus		Vac	DC	24	G2RV-SR501 DC24
Terminal		Yes	AC/DC	24	G2RV-SR501 AC/DC24
			DC	12	G2RV-SR500-AP DC12
			DC	24	G2RV-SR500-AP DC24
			AO/DO	24	G2RV-SR500-AP AC/DC24
	Missalssals	N -	AC/DC	48	G2RV-SR500-AP AC/DC48
	Microloads	No	AC	100	G2RV-SR500-AP AC100
				110	G2RV-SR500-AP AC110
				200	G2RV-SR500-AP AC200
				230	G2RV-SR500-AP AC230
		No	DC	12	G2RV-SR700 DC12
				24	G2RV-SR700 DC24
			AC/DC	24	G2RV-SR700 AC/DC24
				48	G2RV-SR700 AC/DC48
				100	G2RV-SR700 AC100
	Standard		AC	110	G2RV-SR700 AC110
			AC	200	G2RV-SR700 AC200
				230	G2RV-SR700 AC230
Screw terminal		Yes	DC	24	G2RV-SR701 DC24
Sciew terrifildi		169	AC/DC	24	G2RV-SR701 AC/DC24
			DC	12	G2RV-SR700-AP DC12
			DC	24	G2RV-SR700-AP DC24
			AC/DC	24	G2RV-SR700-AP AC/DC24
	Microloads	No	AC/DC	48	G2RV-SR700-AP AC/DC48
	wiicioloaus	INU		100	G2RV-SR700-AP AC100
			AC	110	G2RV-SR700-AP AC110
			AC	200	G2RV-SR700-AP AC200
				230	G2RV-SR700-AP AC230

Note: Sockets are not sold individually.

Relay for Maintenance

Model Number Legend

G2RV-1 - S □ **-** □ **- G**

(1) (2) (3) (4) (5) (6)

(1) No. of poles

1: 1 pole

(2) Terminal S: plug-in

(3) Latching lever (Test switch)

Blank: Without latching lever I: With latching lever

(4) Contact material

Blank: Ag alloy

AP: Ag alloy + Au plating

(5) Types of relay for exchange

G: G2RV-SR series equipped Relay

(6) Rated coil voltage

Number: 11, 21, 48 VDC

G2RV-1-SI-G



G2RV-1-S(-AP)-G



List of Models

Туре	Latching Lever (Test switch)	Rated coil voltage (V)				Model	Applicable model
			11	G2RV-1-S-G DC11	G2RV-SR700/500 DC12V		
			21	G2RV-1-S-G DC21	G2RV-SR700/500 DC24V		
			21	G2NV-1-3-G DC21	G2RV-SR700/500 AC/DC24V		
	No	DC			G2RV-SR700/500 AC/DC48V		
Standard	NO	ЪС			G2RV-SR700/500 AC100V		
Sianuaru			48	G2RV-1-S-G DC48	G2RV-SR700/500 AC110V		
					G2RV-SR700/500 AC200V		
					G2RV-SR700/500 AC230V		
	V		21	G2RV-1-SI-G DC21	G2RV-SR701/501 DC24V		
	Yes	DC	21	G2RV-1-51-G DC21	G2RV-SR701/501 AC/DC24V		
			11	G2RV-1-S-AP-G DC11	G2RV-SR700/500-AP DC12V		
				00001101000001	G2RV-SR700/500-AP DC24V		
			21	G2RV-1-S-AP-G DC21	G2RV-SR700/500-AP AC/DC24V		
Missalasal	NI-	DC			G2RV-SR700/500-AP AC/DC48V		
Microload	No	DC			G2RV-SR700/500-AP AC100V		
			48	G2RV-1-S-AP-G DC48	G2RV-SR700/500-AP AC110V		
					G2RV-SR700/500-AP AC200V		
					G2RV-SR700/500-AP AC230V		

Note: Voltage is reduced within the socket for the slim I/O relay, so the rated input voltage and rated coil voltage of replacement relays are different.

Accessories (order separately)

Refer to page 26 for G2RV-SR/G3RV-SR Common Accessories.

Specifications

Ratings

Coil ratings

Rated input		Rated curre	ent	Must operate voltage	Must release voltage	Power consumption		Maximum allowable voltage	
voltage		AC	DC	Dercentage of t	he rated voltage	AC (VA)	DC (mW)	Percentage of the	
	50 Hz	60 Hz		refeelitage of t	ne rateu voltage	AC (VA) DC (IIIV)		rated voltage	
12 VDC	_	-	27.9 mA			_	Approx. 300 mW		
24 VDC	-	-	13.5 mA			_	Approx. 300 mW		
24 VAC/VDC	12.5 mA	12.6 mA	12.6 mA			Approx. 0.5 VA	Approx. 300 mW		
48 VAC/VDC	5.9 mA	6.1 mA	5.2 mA	000/ *	80% max.*	10% min.	Approx. 0.4 VA	Approx. 250 mW	110%
100 VAC	5.9 mA	6.0 mA	-	00 % IIIax.	10 % 111111.	Approx. 0.8 VA	_	110%	
110 VAC	5.9 mA	5.9 mA	-			Approx. 0.8 VA	_		
200 VAC	6.6 mA	7.6 mA	-			Approx. 1.7 VA	_		
230 VAC	7.3 mA	8.4 mA	_			Approx. 1.7 VA	_		

Note: The operating characteristics are measured at ambient temperature of 23°C.

Contact ratings

Item	Standard (G2R	V-SR700, 500, 701, 501)	For microloads (G2RV-SR700-AP, 500-AP) *2	
Contact configuration	SPDT			
Load	Resistive load (cosφ=1)	Inductive load (cosφ=0.4, L/R=7ms)	Resistive load (cosφ=1)	
Rated load	6 A at 250 VAC 2.5 A at 250 VAC 6 A at 30 VDC 2 A at 30 VDC		50 mA at 30 VAC 50 mA at 36 VDC	
Rated carry current	6 A		50 mA	
Maximum switching voltage	440 VAC, 125 VDC		30 VAC, 36 VDC	
Maximum switching current	6 A		50 mA	
Maximum switching power	1,500 VA 180 W 500 VA 60 W		-	
Failure rate P value (reference value) *1	10 mA at 5 VDC		1 mA at 100 mVDC	

^{*1.} P level: λ60=0.1×10⁻⁶/times

Characteristics

Item		Standard (G2RV-SR700, 500, 701, 501) For microloads (G2RV-SR700-AP,					
Contact resistance	*1	100 m Ω max.					
Operate (Set) time '	' 1	20 ms max.					
Release time *1		AC, AC/DC: 40 ms max. DC: 20 ms max.					
Maximum operating	g frequency	Mechanical: 18,000 operations/h Electrical: 1,800 operations/h (rated load)					
Insulation resistant	се	1,000 MΩ min. (at 500 VDC)					
Dielectric strength Between coil and contacts: 4,000VAC 50/60 Hz 1 min Contact between the same polarity: 1,000 VAC 50/60 Hz 1 min							
Vibration resistanc	e *2	Destruction: 10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm) Malfunction: 10 to 55 to 10 Hz, single amplitude 0.50 mm (double amplitude 1.0 mm)					
Shock resistance *2	2	Destruction: 1,000 m/s ² Malfunction: Energized 200m/s ² , Non-energized 100m/s ²					
	Mechanical	5,000,000 operations min.					
Endurance *1	Electrical	NO contact: 70,000 operations min. NC contact: 50,000 operations min. 5,000,000 operations min.					
Ambient operating	temperature	Operating: -40 to +55°C (with no icing or condensation)					
Ambient operating	humidity	Operating: 5 to 85% RH					
Weight		Approx. 30 g					
Contact material		Ag alloy Ag alloy + Au plating					
Notes Above values e	and the late of the late of	_	l .				

Note: Above values are initial values.

^{*}Operating voltage will be, for mounting in the upside down direction, 85% max. (Upside down: Direction in which the mechanical indicator faces down)

This value is the value in switching frequency 120 operations/min.

^{*2.} If the Au plating layer is destroyed, the number will be the same as the standard type.

^{*1.} Value is at ambient temperature of 23°C.

^{*2.} Value when the end plate is used.

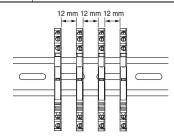
Common Precautions

Approved standards

UL508 (file No.E41643)

Model	Contact form	Operation coil ratings	Contact ratings	Operations
G2RV-SR series	SPDT	24 to 230 VAC	6 A at 250 VAC (Resistive load) 6 A at 30 VDC (Resistive load) 2 A at 400 VAC (Resistive load)*	6,000

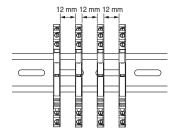
^{*} If the load voltage exceeds 250 VAC, please attach with a spacing of 12 mm min., or use a separate plate (XW5Z-EP12).



TÜV (EN 61810-1)

Model	Contact form	Operation coil ratings	Contact ratings	Operations
G2RV-SR series	SPDT	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	6 A at 250 VAC (Resistive load) 6 A at 30 VDC (Resistive load) 2 A at 400 VAC (Resistive load)*	50,000 50,000 6,000

^{*} If the load voltage exceeds 250 VAC, please attach with a spacing of 12 mm min., or use a separate plate (XW5Z-EP12).

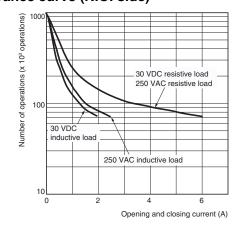


Lloyd's (File No.07/10020)

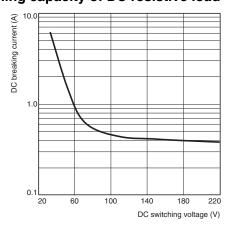
Model	Contact form	Operation coil ratings	Contact ratings
			6 A at 250 VAC (Resistive load)
G2RV-SR500	SPDT	12, 24 VDC	2.5 A at 250 VAC (PF0.4)
G2RV-SR700	2501	24, 48 VAC/VDC 100, 110, 200, 230 VAC	6 A at 30 VAC (Ress)
			2 A at 30 VDC (L/R=7ms)
	SPDT		6 A at 250 VAC (Resistive load)
G2RV-SR501		12, 24 VDC	2.5 A at 250 VAC (PF0.4)
G2RV-SR701		24 VAC/VDC	6 A at 30 VAC (Ress)
			2 A at 30 VDC (L/R=7ms)
G2RV-SR500-AP G2RV-SR700-AP	SPDT	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	0.05 A at 30 VAC (Resistive load) 0.05 A at 36 VDC (Resistive load)

Engineering Data

Endurance curve (N.O. side)

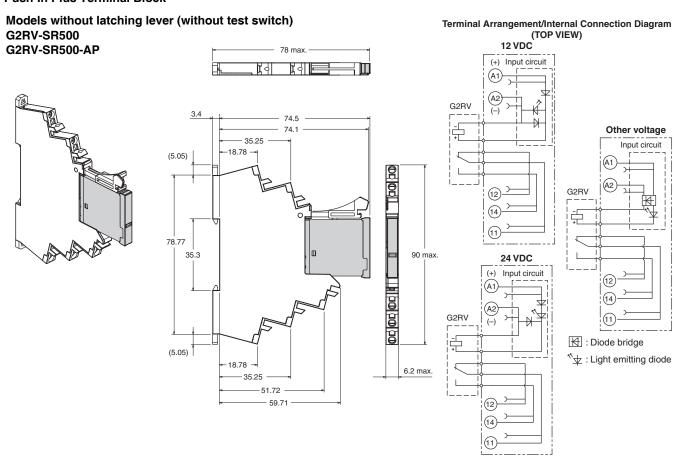


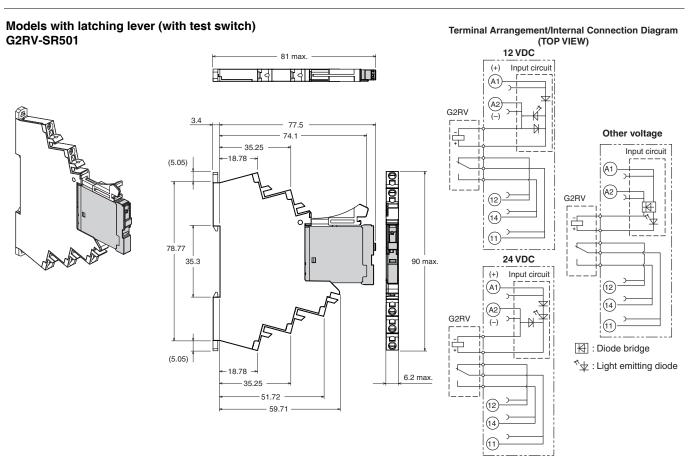
Switching capacity of DC resistive load

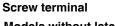


Dimensions (unit: mm)

Slim I/O Relay + socket Push-In Plus Terminal Block

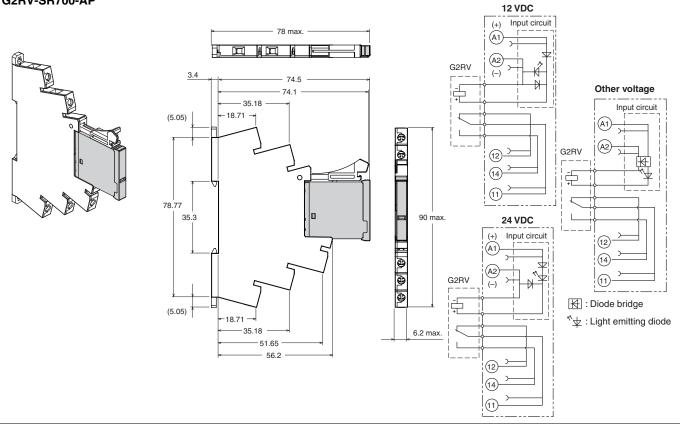






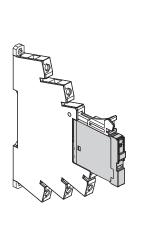
Models without latching lever (without test switch) G2RV-SR700 G2RV-SR700-AP

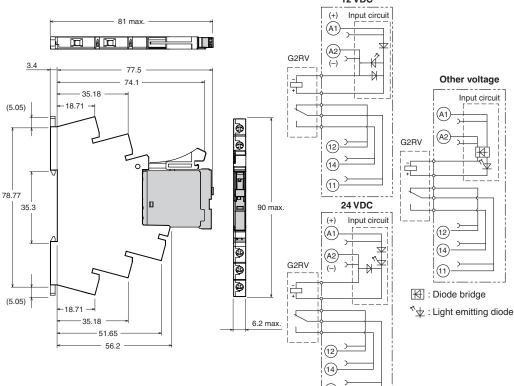




Models with latching lever (with test switch)

Terminal Arrangement/Internal Connection Diagram (TOP VIEW) G2RV-SR701 **12 VDC**

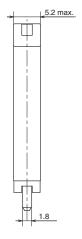


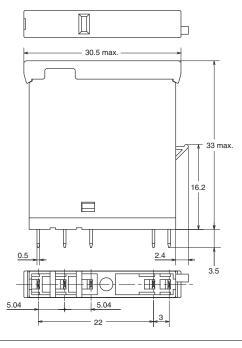


Relay for maintenance

Models without latching lever G2RV-1-S-G G2RV-1-S-AP-G







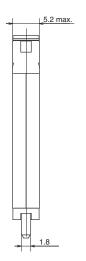
Terminal Arrangement/ Internal Connection Diagram (TOP VIEW)

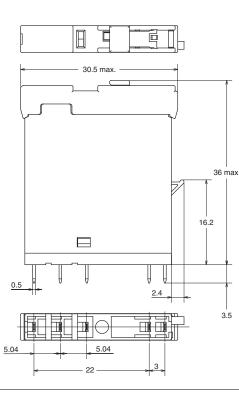
(Input circuit)



Models with latching lever (test switch) G2RV-1-SI-G







Terminal Arrangement/ Internal Connection Diagram (TOP VIEW)

(Input circuit)



Slim I/O Solid State Relay

Global standard size, low profile type slim I/O solid state relay with width 6.2 mm.

- Realized about 25% lower profile than conventional products, contributing to further miniaturization of the control panel.
- Optimal slim, high frequency, high-speed opening and closing SSR (solid state relay).
- Realized a slim shape with a switching capacity up to 3 A (DC), and 2 A (AC).

Refer to Safety Precautions on page 20.

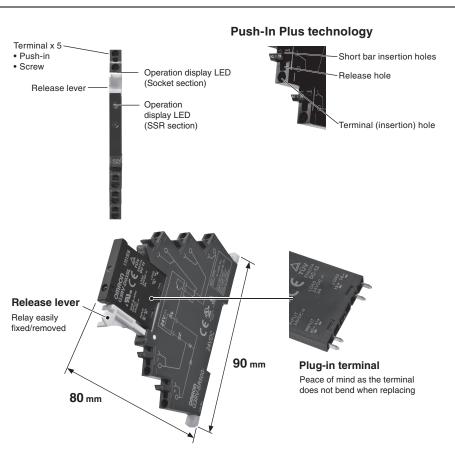
- Because MOSFET is used for the outlet element for the DC load, opening and closing load of 100 μA to 3 A is possible.
- · Check operating status at a glance at the operating display
- Mounted I/O SSR (solid-state relay) uses plug-in terminals that are difficult to bend when exchanging.
- G2RV-SR featuring a general-purpose relay similar in shape to G3RV-SR also available.





For the recent information on models that have been certified for safety standards, refer to your OMRON website.

Features



Model Number Structure

Model Number Legend

 $\frac{\text{G3RV-SR}}{\text{(1)}} \stackrel{\square}{=} \stackrel{\square}{=} \stackrel{\square}{=} \stackrel{\square}{=} \stackrel{\square}{=} \frac{\square}{\text{(3)}}$

(1) Basic model name

G3RV: Slim I/O Solid State Relay

(2) Sub type

SR: Slim solid relay + integrated low profile socket

(3) Terminal (wire connection)

500: Push-In Plus Terminal 700: Screw terminal

(4) Output voltage specification

A : AC output (triac) zero cross function available AL : AC output (triac) zero cross function not available

D : DC output (MOS FET)

(5) Rated voltage input

12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC

Ordering Information

Terminal (wire connection)	Applicable output load	Zero cross function	Rated inp	_	Model
			DC	12	G3RV-SR500-D DC12
			DC	24	G3RV-SR500-D DC24
				24	G3RV-SR500-D AC/DC24
			AC/DC	48	G3RV-SR500-D AC/DC48
	DC load	_		100	G3RV-SR500-D AC100
				110	G3RV-SR500-D AC110
			AC	200	G3RV-SR500-D AC200
				230	G3RV-SR500-D AC230
				12	G3RV-SR500-A DC12
			DC	24	G3RV-SR500-A DC24
				24	G3RV-SR500-A AC/DC24
			AC/DC	48	G3RV-SR500-A AC/DC48
Push-In Plus Terminal		Yes		100	G3RV-SR500-A AC100
				110	G3RV-SR500-A AC110
			AC	200	G3RV-SR500-A AC200
				230	G3RV-SR500-A AC230
	AC load			12	
			DC		G3RV-SR500-AL DC12
				24	G3RV-SR500-AL DC24
			AC/DC	24	G3RV-SR500-AL AC/DC24
		No		48	G3RV-SR500-AL AC/DC48
			AC	100	G3RV-SR500-AL AC100
				110	G3RV-SR500-AL AC110
				200	G3RV-SR500-AL AC200
				230	G3RV-SR500-AL AC230
	DC load		DC	12	G3RV-SR700-D DC12
				24	G3RV-SR700-D DC24
			AC/DC	24	G3RV-SR700-D AC/DC24
		_		48	G3RV-SR700-D AC/DC48
				100	G3RV-SR700-D AC100
			40	110	G3RV-SR700-D AC110
			AC	200	G3RV-SR700-D AC200
				230	G3RV-SR700-D AC230
				12	G3RV-SR700-A DC12
			DC	24	G3RV-SR700-A DC24
				24	G3RV-SR700-A AC/DC24
			AC/DC	48	G3RV-SR700-A AC/DC48
Screw terminal		Yes		100	G3RV-SR700-A AC100
				110	G3RV-SR700-A AC110
			AC	200	G3RV-SR700-A AC200
				230	G3RV-SR700-A AC230
	AC load			12	G3RV-SR700-AL DC12
			DC	24	G3RV-SR700-AL DC12
				24	
			AC/DC		G3RV-SR700-AL AC/DC24
		No		48	G3RV-SR700-AL AC/DC48
				100	G3RV-SR700-AL AC100
			AC	110	G3RV-SR700-AL AC110
				200	G3RV-SR700-AL AC200
				230	G3RV-SR700-AL AC230

Solid state relay for maintenance

Model Number Legend

G3RV-□ □ **S** □ (1) (2) (3) (4)

(1) Output voltage specification

(3) Terminal S: Plug-in type

D: DC output 2: AC output

(4) Zero cross functions

(2) Rated current

Blank: Zero cross function available L: Zero cross function not available

02: AC output 2 A 03: DC output 3 A

(5) Rated input voltage Number: 12, 24, 48 VDC



List of Models

Insulation method	Operation Display	Output (SSR)	Zero cross Function	Rated output Load *	Rated input voltage (socket)	Model	Applicable model				
					12 VDC	G3RV-202S DC12	G3RV-SR700/500-A DC12V				
					24 VDC	G3RV-202S DC24	G3RV-SR700/500-A DC24V				
					24 VAC/VDC	G3NV-2023 DC24	G3RV-SR700/500-A AC/DC24V				
			Yes		48 VAC/VDC		G3RV-SR700/500-A AC/DC48V				
			res		100 VAC		G3RV-SR700/500-A AC100V				
					110 VAC	G3RV-202S DC48	G3RV-SR700/500-A AC110V				
				2 A	200 VAC		G3RV-SR700/500-A AC200V				
Photo-		40		(at 100 to	230 VAC		G3RV-SR700/500-A AC230V				
triac		Yes	AC	AC	AC		240	12 VDC	G3RV-202SL DC12	G3RV-SR700/500-AL DC12V	
			No	VAC)	24 VDC	G3RV-202SL DC24	G3RV-SR700/500-AL DC24V				
					24 VAC/VDC		G3RV-SR700/500-AL AC/DC24V				
	Yes				48 VAC/VDC	G3RV-202SL DC48	G3RV-SR700/500-AL AC/DC48V				
	(green)				100 VAC		G3RV-SR700/500-AL AC100V				
					110 VAC		G3RV-SR700/500-AL AC110V				
										200 VAC	
					230 VAC		G3RV-SR700/500-AL AC230V				
					12 VDC	G3RV-D03SL DC12	G3RV-SR700/500-D DC12V				
					24 VDC	G3RV-D03SL DC24	G3RV-SR700/500-D DC24V				
					24 VAC/VDC	G3RV-D035L DC24	G3RV-SR700/500-D AC/DC24V				
Photo-		DC		3 A	48 VAC/VDC		G3RV-SR700/500-D AC/DC48V				
voltage coupler		DC	_	(at 5 to 24 VDC)	100 VAC		G3RV-SR700/500-D AC100V				
•				,	110 VAC	G3RV-D03SL DC48	G3RV-SR700/500-D AC110V				
					200 VAC		G3RV-SR700/500-D AC200V				
					230 VAC		G3RV-SR700/500-D AC230V				

^{*} Different depending on the ambient temperature.

Accessories (order separately)

Refer to page 26 for G2RV-SR/G3RV-SR Common Accessories.

For more details, refer to Load current vs. ambient rated temperature on page 16.

Specifications

Rating (ambient temperature 25°C)

Input G3RV-SR700/500-A series

	F	Rated curre	ent			Input voltage
Rated input voltage	<i>P</i>	C	DC	Must operate voltage	Must release voltage	Percentage of the
	50 Hz	60 Hz				rated voltage
12 VDC	_	_	15.0 mA	10.8 V max.		
24 VDC	_	_	12.0 mA	21.6 V max.		±10%
24 VAC/VDC	11.3 mA	11.4 mA	11.0 mA	21.6 V max.		
48 VAC/VDC	6.8 mA	6.9 mA	6.0 mA	43.2 V max.	1 V min.	
100 VAC	6.2 mA	6.2 mA	_	90 V max.	i viiiii.	
110 VAC	6.2 mA	6.2 mA	-	99 V max.		
200 VAC	6.7 mA	7.9 mA	-	180 V max.		
230 VAC	7.5 mA	8.8 mA	-	207 V max.		

G3RV-SR700/500-AL series

	Rated current					Input voltage
Rated input voltage	AC		DC	Must operate voltage	Must release voltage	Percentage of the
	50 Hz	60 Hz				rated voltage
12 VDC	-	_	15.0 mA	10.8 V max.		
24 VDC	_	_	12.0 mA	21.6 V max.		±10%
24 VAC/VDC	11.4 mA	11.5 mA	11.0 mA	21.6 V max.		
48 VAC/VDC	7.7 mA	7.7 mA	6.9 mA	43.2 V max.		
100 VAC	7.3 mA	7.3 mA	-	90 V max.	1 V min.	
110 VAC	7.3 mA	7.3 mA	_	99 V max.		
200 VAC	7.0 mA	8.1 mA	-	180 V max.		
230 VAC	7.7 mA	8.9 mA	_	207 V max.		

G3RV-SR700/500-D series

	Rated current					Input voltage
Rated input voltage	AC		DC	Must operate voltage	Must release voltage	Percentage of the
	50 Hz	60 Hz	DC		,	rated voltage
12 VDC	_	_	8.0 mA	10.8 V max.		
24 VDC	_	_	4.6 mA	21.6 V max.	- 1 V min.	±10%
24 VAC/VDC	5.0 mA	5.1 mA	4.3 mA	21.6 V max.		
48 VAC/VDC	6.8 mA	6.9 mA	6.0 mA	43.2 V max.		
100 VAC	6.2 mA	6.2 mA	-	90 V max.		
110 VAC	6.2 mA	6.2 mA	-	99 V max.		
200 VAC	6.7 mA	7.9 mA	_	180 V max.		
230 VAC	7.5 mA	8.8 mA	_	207 V max.		

Output

Item	G3RV-SR700/500-A(L)	G3RV-SR700/500-D	
Rated load voltage	100 to 240 VAC (50/60 Hz)	5 to 24 VDC	
Load voltage range	75 to 264 VAC (50/60 Hz)	3 to 26.4 VDC	
Load current	0.1 to 2 A (Ambient temperature=25°C)	100 μA to 3 A (Ambient temperature=25°C)	
Inrush current resistance	30 A (60 Hz, 1 cycle)	30 A (60 Hz, 1 cycle)	
Permissible l²t; Joule integral value (reference value)	15A ² s	9 A ² s	
Applied load capacity	400 W (Output voltage: 200 VAC)	72 W (Output voltage: 24 VDC)	

Characteristics

Item	G3RV-SR700/500-A	G3RV-SR700/500-AL	G3RV-SR700/500-D			
Operate time	1/2 cycle of load power supply +1 ms max.	3 ms max.	6 ms max.			
Release time	60 ms max.	60 ms max.	60 ms max.			
Output ON voltage drop	1.6 V (RMS) max.		-			
Output ON resistance		-	0.3 Ω max. (at 24 VDC)			
Leaked current	5 mA max. (at 200 VAC, 50/60 H.	z)	10 μA max. (at 24 VDC)			
nsulation resistance	100 MΩ min. (at 500 VDC)					
Dielectric strength	Between input and output 2,500	VAC 50/60 Hz 1 min				
/ibration resistance *	Malfunction: 10 to 55 to 10 Hz do	uble amplitude 0.70 mm				
Shock resistance *	300m/s ²					
Ambient operating temperature	Storage: –30 to +100°C (with no icing or no condensation) Operating: –30 to +55°C (with no icing or no condensation)					
Ambient operating humidity	45 to 85% RH					
Weight	Approx. 38 g					
Pollution degree	2					
The degree of protection by IEC60529	IP20					
Rated impulse dielectric strength	4.0 kV/III					
Load category	LC-A DC-12					
Overload current profile	1.5le 1.1Ue 5s ON, 10s OFF, 10 cycles					
Rated insulation voltage	240 V					
Value when the end plate is used	1					

^{*} Value when the end plate is used.

Approved standards

UL 508 (file No.E64562)

Model	Input ratings	Contact ratings
G3RV-SR700/500-D series	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	24 VDC 3 A (resistive load) at 25°C
G3RV-SR700/500-A(L) series	12, 24 VDC 24, 48 VAC/DC 100, 110, 200, 230 VAC	240 VAC 2 A (resistive load) at 25°C

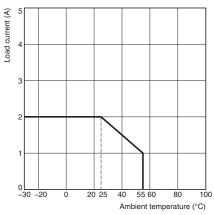
TÜV(EN 62314)

Model	Input ratings	Contact ratings
G3RV-SR700/500-D series	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	24 VDC 3 A (resistive load)
G3RV-SR700/500-A(L) series	12, 24 VDC 24, 48 VAC/VDC 100, 110, 200, 230 VAC	240 VAC 2 A (resistive load)

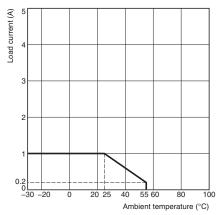
Engineering Data

Load current vs. ambient rated temperature G3RV-SR700/500-A(L) series

Product mounting spacing 10 mm (Separate Mounting)

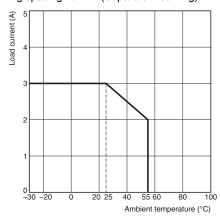


Close mounting (up to 5 units *)

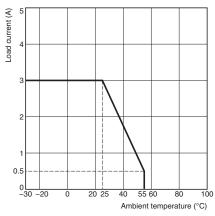


G3RV-SR700/500-D series

Product mounting spacing 10 mm (Separate Mounting)



Close mounting (up to 5 units *)



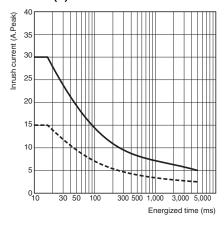
* When five or more are installed, install with 10 mm space between

For details, please refer to Mounting on page 25.

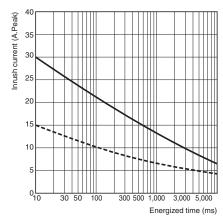
Inrush Current Resistance: Non-repetitive

Keep the inrush current to below the inrush current resistance value (i.e., below the broken line) if it occurs repetitively.

G3RV-SR700/500-A(L) series

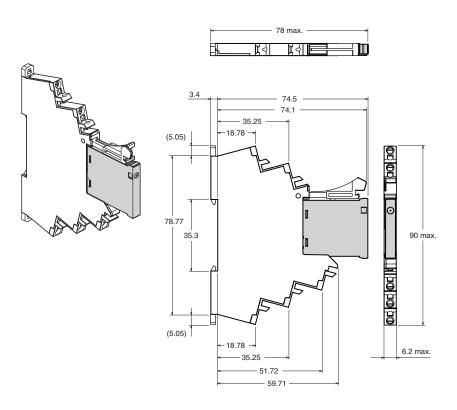


G3RV-SR700/500-D series



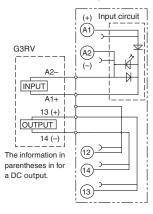
Dimensions (unit: mm)

Solid state relay + socket Push-In Plus Terminal Block G3RV-SR500

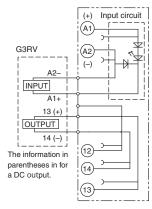


Terminal Arrangement/ Internal Connection Diagram (TOP VIEW)

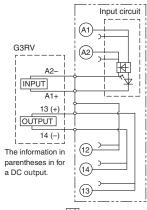
12 VDC



24 VDC

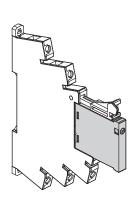


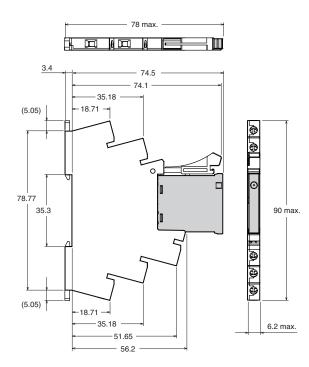
Other voltage



: Diode bridge

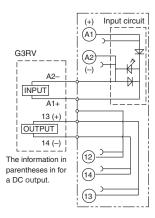
Screw terminal G3RV-SR700



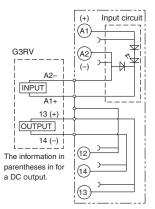


Terminal Arrangement/ Internal Connection Diagram (TOP VIEW)

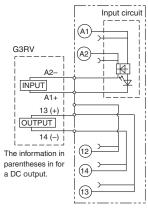
12 VDC



24 VDC



Other voltage

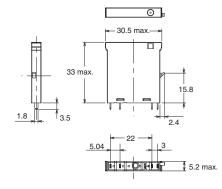


: Diode bridge

Solid state relay for maintenance

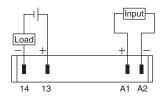
G3RV-D03SL G3RV-202S(L)





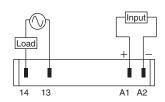
Terminal Arrangement/ Internal Connection Diagram (TOP VIEW)

G3RV-D03SL (input circuit)



Note: The load can be connected to either the positive or negative terminals.

G3RV-202S(L) (input circuit)

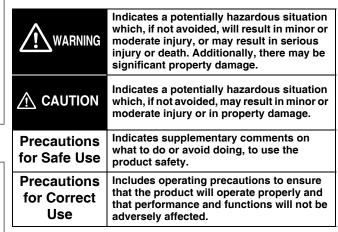


G2RV-SR/G3RV-SR

Safety Precautions

Be sure to read the *Safety Precautions for All Relays* in the website at the following URL: http://www.ia.omron.com/.

Format of Warning Indications



Meaning of Graphic Symbols for Ensuring Product Safety



Indicates the possibility of electric shock under specific conditions.



Used for general CAUTION, WARNING, or DANGER precautions for which there is no specified symbol. (This symbol is also used as the alerting symbol, but shall not be used in this meaning on the product.)



Indicates the possibility of explosion or rupture under specific conditions.



Indicates the possibility of injuries by high temperature under specific conditions.

∕ ₩ARNING

Ensure that the socket is not charged during wiring and maintenance. Not doing so may result in electric shock.



Do not touch the terminal section of the G2RV-SR or the surrounding area while the power is being supplied. Doing so may result in electric shock.



♠ CAUTION

Minor electrical shock may occasionally occur. Do not touch the G3RV terminal section (i.e., current carrying parts) while the power is being supplied.



The G3RV may rupture if short-circuit current flows. As protection against accidents due to short-circuiting, be sure to install protective devices, such as fuses and no-fuse breakers, on the power supply side.



Minor electrical shock may occasionally occur. Do not touch the main circuit terminals on the G3RV immediately after the power supply has been turned OFF.



Shock may result due to the electrical charge stored in the built-in snubber circuit.

Note: G3RV-202S(L), G3RV-SR500/700-A(L) series

models only

Minor burns may occasionally occur.

Do not touch the G3RV or the heat sink while the power is being supplied or immediately after the power supply has been turned OFF.

The G3RV becomes extremely hot.



Provide a space of at least 3 mm between the G2RV-SR and ground. Not doing so may result in a ground fault.



Precautions for Safe Use

Transport

- Do not use the product if it has been dropped on the ground.
 Dropping the product may adversely affect performance.
- Do not drop the product or subject it to abnormal vibration or shock during transportation or mounting. Doing so may result in deterioration of performance, malfunction, or failure.
- Do not transport the product without it being packaged. Doing so may result in damage, malfunction, or failure.
- Do not transport the G3RV under the following conditions. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
 - · High temperature, high humidity conditions
 - Conditions such as temperature change that causes rapid condensation
 - · Condition where it is not packaged

Operating and Storage Environments

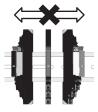
- Do not use or store the product in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
 - Do not store in locations subject to ambient storage temperatures outside the range –40 to 70°C (for G2RV) and outside the range –30 to 100°C (for G3RV).
 - Locations subject to relative humidity outside the range 5% to 85% (for G2RV) and outside the range 45% to 85% (for G3RV).
 - · Locations subject to high temperature or high humidity.
 - Conditions such as temperature change that causes rapid condensation
 - Locations where corrosive gases or flammable gases are present
 - · Location where rainwater or water droplets gets splashed
 - · Location with splashes of water, oil, and chemicals, etc.
 - · Locations with much dust, salt, and iron powder
 - · Location with blockers
 - Where static electricity or noise occurs
 - · Where strong electromagnetic field is generated
 - · Where there is a risk of exposure to radioactivity
- Do not use or store Sockets in environments that contain silicone gas, sulfidizing gas (e.g., SO₂ or H₂S), or organic gas, or near materials that contain silicone. Doing so may cause the contacts to be unstable or to fail.

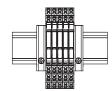
Handling <G3RV>

Keep the G3RV well ventilated.
 There is a risk of short-circuiting or burning due to G3RV overheating.

Mountina

- Before you start wiring, please make sure that the socket is securely attached to the mounting rail. If the socket is unstable, it may come loose and risk of injury towards the workers.
- Please insert the flat-blade screwdriver to the bottom of the hole. If you do not insert the flat-blade screwdriver correctly, the cable will not be connected correctly.
- When lubricant such as oil is attached to the tip of the driver, the driver will fall off, with a risk of injury towards the workers.
- Do not tilt the G2RV-SR/G3RV-SR after mounting to the support rail. Doing so may apply excessive force to the mounting portion, possibly damaging the product. Attach end plates (PFP-M) to sandwich the product and hold it in place.





Usage

- Please select the load within the rated range. Doing so may result in damage, malfunction, or failure.
- Please use the power of the rated frequency. It may cause malfunction, failure, or risk of burnout.

<G3RV>

- Install G3RV according to instructions Mounting on page 25. If you
 install in the wrong direction, abnormal heat is generated, and may
 lead to short-circuiting or burning the output element.
- G3RV is an SSR that generates heat. Please observe the ambient temperature setting range of G3RV. If installing in an enclosed space, set a fan, and ventilate.
- When mounting G3RV to DIN rail, firmly fits into the groove. If it is not properly installed, there is a risk of it falling.

Wiring

- For the current to be applied, make sure a wire size with margin is used.
 Otherwise, excessive heat generated by the wires may cause burning.
- Do not attempt to use the wire if the coat is torn. Not doing so may result in electric shock.
- Always turn OFF the power supply before performing wiring. Not doing so may cause electrical shock.

<G3RV>

 The wires of the socket for G3RV socket should not be passed through the same duct as that being connected to the high-voltage power supply. Otherwise, inductive noise may damage the G3RV or cause it to malfunction.

Push-In Plus Terminal Block

- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle.
 The terminal block may be damaged if you insert the screwdriver straight in.
- Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
- Do not bend the wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire disconnection.
- Do not insert more than one wire into each terminal (insertion) hole.
- To prevent wiring materials from smoking or ignition, confirm wire ratings and use the wiring materials given in the following table.

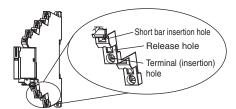
Recommended Wire	Stripping length (Ferrules not used)
0.5 to 1.5 mm ² /AWG20 to AWG16	8 mm

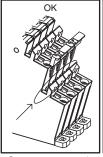
Disposal

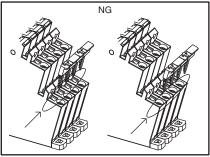
• When disposing of the product, do not put into the fire.

Precautions for Correct Use

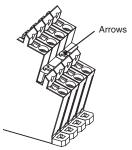
- Do not use or store the product in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.
 - · Where vibration or shock is directly transmitted to the body
 - Where the socket could come into contact with a solvent or alkaline agent
- Please insert PYDN terminal into the short bar insertion hole of G2RV-SR/G3RV-SR. If insert PYDN into the release hole or terminal (insertion) hole wrongly, PYDN may stuck and can not remove and it may cause result of damage on PYDN and G2RV-SR/G3RV-SR.



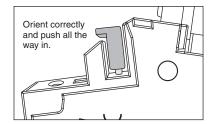




 Some arrow marks are added to the top of short bar as figures below. These arrow marks indicate the direction toward the relays mounted on the G2RV-SR/G3RV-SR series. When installing the short bar into G2RV-SR/G3RV-SR, short bar shall be installed as the arrow marks heading to the mounted relays.

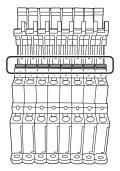


- Do not use this device with the short bar inserted in the opposite direction. Otherwise, contact failure may result.
- When installing the short bar, insert it into the insertion hole in the correct orientation, and insert until all terminals are all the way in.

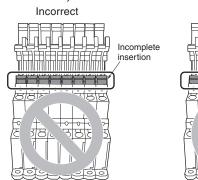


Completely inserted All terminals are inserted all the way in.

Correc



Incomplete insertion
All terminals are not inserted
all the way in.



Incorrect installation
Some terminals not inserted completely.

Incorrect



• To remove the short bar, insert a screwdirver beneath the rim on top of the short bar and lift up.

Start lifting up from either end, lift up all screwdriver in order, and then remove the short bar.



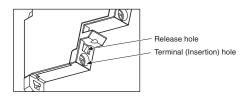




- If using a short bar, install the short bar before performing wiring work.
- A push-in Plus terminal block type and a screw terminal type have different insertion positions, so a mixed installation using the same short bar is not possible.
- Do not insert short bar in the hole for wire or screw driver, it may cause the result of failure of pull out.
 - If insert short bar in the hole for wire or screw driver and try to pull out, it may cause damage for short bar or socket and failure in electric conductivity.
- Do not use this device with the short bar inserted in the opposite direction. Otherwise, contact failure may result.
- Please insert P2RVC terminal into the short bar insertion hole of G2RV-SR/G3RV-SR. If insert P2RVC into the release hole or terminal (insertion) hole wrongly, P2RVC may stuck and can not remove and it may cause result of damage on P2RVC and G2RV-SR/G3RV-SR.
 - Please turn off the power of input and output side and remove PLC interface unit when replacing mounting relays and SSRs for maintenance.
- When replacing relays, there is a possibility the relay will pop out and fall. Take care to prevent the relay from falling during replacement.

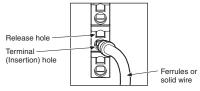
Push-In Plus Terminal Block

1. Connecting Wires to the Push-In Plus Terminal Block Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.

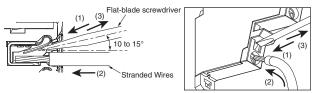


 If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

- (1) Hold a flat-blade screwdriver at an angle and insert it into the release hole.
 - The angle should be between 10°and15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
- (2) With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block.
- (3) Remove the flat-blade screwdriver from the release hole.



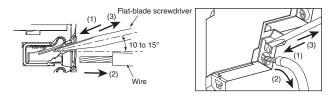
Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

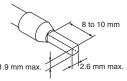
- (1) Hold a flat-blade screwdriver at an angle and insert it into the release hole.
- (2) With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
- (3) Remove the flat-blade screwdriver from the release hole.



3. Recommended ferrules and Crimp Tools Recommended ferrules

	Applicable wire		Stripping length	Recommended ferrules			
(mm²)	(AWG)	length (mm)	(mm) (Ferrules used)	Phoenix Contact product	Weidmuller product	Wago product	
0.25	24	8	10	AI 0,25-8	H0.25/12	216-301	
0.23	24	10	12	AI 0,25-10			
0.34	22	8	10	AI 0,34-8	H0.34/12	216-302	
0.54	22	10	12	AI 0,34-10			
0.5	20	8	10	AI 0,5-8	H0.5/14	216-201	
0.5	20	10	12	AI 0,5-10	H0.5/16	216-241	
0.75	18	8	10	AI 0,75-8	H0.75/14	216-202	
0.75	18	10	10	12	AI 0,75-10	H0.75/16	216-242
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203	
1/1.25	10/17	10	12	AI 1-10	H1.0/16	216-243	
1.25/1.5	17/16	8	10	AI 1,5-8	H1.5/14	216-204	
1.23/1.3	1.25/1.5 17/16		12	AI 1,5-10	H1.5/16	216-244	
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

- **Note: 1.** Make sure that the outer diameter of the wire is smaller than the inner diameter of the insulating sleeve of the recommended ferrule.
 - 2. Make sure that the ferrule processing dimensions conform to the following figure.



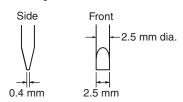
 If you use AWG24 to AWG22 (0.25 to 0.34 mm²) wires, UL certification will not apply.

Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires.

Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacturer
ESD 0,40×2,5	Wera
SZS 0,4×2,5 SZF 0-0,4×2,5 *	Phoenix Contact
0.4×2.5×75 302	Wiha
AEF.2,5×75	Facom
210-719	Wago
SDI 0.4×2.5×75	Weidmuller

* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4×2,5 (manufactured by Phoenix Contact).

Screw Terminal

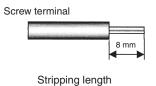
Screw terminal

Wired type	Applicable wire size	Stripping length
Stranded wires, without ferrule	0.5 to 1.5 mm ²	8 mm
Stranded wires, with ferrule and plastic collar	0.5 to 1.5 mm ²	8 mm
Stranded wires with ferrule, without plastic collar	0.5 to 1.5 mm ²	8 mm
Single wire	0.5 to 1.5 mm ²	8 mm

• Tightening Torque 0.4 N • m

Electric wiring

Use the electric wire of specified size as shown above. The length of the that is not covered is 8 mm.

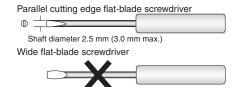


<G2RV>

Operating latching lever (test switch)
When operating the latching lever for G2RV-SR701/501
series, use a 2.5 mm width flat-blade screwdriver.

· Applicable flat-blade screwdriver

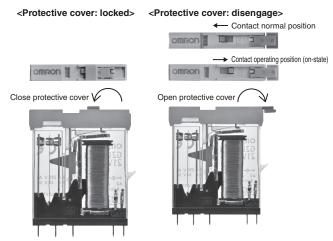
Flat-blade screwdriver with parallel cutting edge: shaft diameter 2.5 mm (3.0 mm max.)



Driver with a thick shaft cannot be used.

- Always turn OFF the power supply before operating latching lever.
- · Return to its original state after using the latching lever.
- · Do not use the latching lever as a switch.
- Operation durability of the latching lever is 100 times or more.
- Do not keep the latching lever ON for a long period of time (24 hours or more) in order to maintain the operation check function.

Method of operation of the latching lever (test switch)



Keep the protective cover open when using the latching lever. Move until the latching lever clicks to the ON position (ON state). After use latching lever, in order to prevent malfunction, return the switch to contact normal position (OFF state), and make sure the protective cover is firmly closed.

Using the latching lever

Example: check the operation of the relay and the sequence circuit

Input ratings

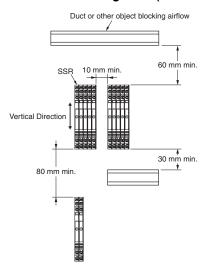
Smoothing capacitors are used in the internal circuits of AC/DC-type G2RV-SR devices. AC/DC-type G2RV-SR devices driven by the sensor may not operate normally due to the characteristics of the smoothing capacitor. When driving such devices by the sensor, use the DC specification settings.

<G3RV>

- Since the G3RV uses electronic components, do not allow it to fall, vibrate, or apply shock that exceeds the criteria. Doing so may result in failure, malfunction, or deterioration of performance.
- Tighten screw terminal for G3RV at torque 0.4 N · m. It may cause short-circuit failure or burning.
- Please use the voltage and current suitable for the input and output terminal portion of G3RV. It may cause short-circuit failure or burning.

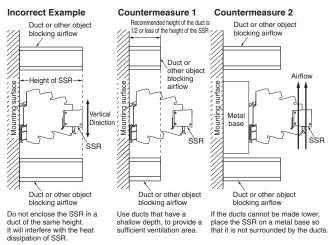
Mounting

<The SSR Mounting Pitch (Panel Mounting)>

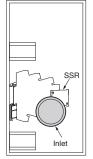


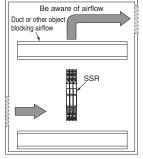
*When five or more are installed, install with 10 mm space between each.

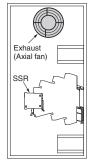
<Relationship of SSR and duct (duct depth)>



<Ventilation Outside the Control Panel>







- If the air inlet or air outlet has a filter, clean the filter regularly to prevent it from clogging to ensure an efficient flow of air.
- Do not place objects that may obstruct the proper ventilation for outside or inside the inlet or exhaust port, and in the outside vicinity.
- A heat exchanger, if used, should be located in front of the G3RV to ensure the efficiency of the heat exchanger.
- Please observe the ambient temperature of G3RV. The rated current of the G3RV is measured at an ambient temperature of 25°C.
- The G3RV uses a semiconductor in the output element.
 This causes the temperature inside the control panel to increase due to heating resulting from the flow of electrical current through the load. The G3RV reliability can be increased by adding a ventilation fan to the control panel to dispel this heat, thus lowering the ambient temperature of the G3RV.

(It suggests that life expectancy is doubled by each 10°C reduction in ambient temperature.)

EMI

The G3RV is a Class A product (for industrial environments). When used in a residential environment, it may cause radio interference. In such case, the user may be required to take appropriate measures.

For G2RV-SR/G3RV-SR Common Accessories (order separately)

Ordering Information

Short Bars

Appearance	Pitch	No. of poles	Colors	Model *	Minimum order (Quantity)	Maximum energizing current
	6.2 mm 2 3 4 10 20	2	Red (R), Blue (S), Yellow (Y)	PYDN-6.2-020□	10	32 A
		3		PYDN-6.2-030□		
		4		PYDN-6.2-040□		
		10		PYDN-6.2-100□		
		20		PYDN-6.2-200□		

Note: Use for wiring to the adjacent socket.

Label

Model	Manufacturer	Minimum order (Box) (quantity per box)
MG-CPM-04 41390N	Cembre	Box 1,680 pieces (35 sheet / 48 pieces)
XW5Z-P2.5LB1	Omron	Sheet 360 pieces (5 sheet / 72 pieces)

Note: PRINTER: MARKINGENIUS MG3 (Ask to your Omron contact for more details on printers)

Separate Plate

Appearance	Model
	XW5Z-EP12

PLC interface unit

Appearance	I/O classification	Connection method	Common process	Applicable Models *	Model
_	For input	Push-In	PNP	- G2RV-SR500-AP	P2RVC-8-I-5-1
			NPN		P2RVC-8-I-5
		Screw	PNP	G2RV-SR700-AP	P2RVC-8-I-7-1
	For output	Push-In	PNP	G2RV-SR500 G2RV-SR501 G3RV-SR500	P2RVC-8-O-5-1
			NPN		P2RVC-8-O-5
		Screw	PNP	G2RV-SR700 G2RV-SR701 G3RV-SR700	P2RVC-8-0-7-1

^{*} Please make sure applicable models, P2RVC can not be used other combination than the above table.

Parts for DIN Track Mounting

Appearance	Туре		Model	Minimum order (Quantity)	
	DIN Tracks	1 m	PFP-100N	4	
		0.5 m	PFP-50N	1	
5	End Plate *		PFP-M	10	
	Spacer		PFP-S	10	

* When mounting DIN Track, please use End Plate (PFP-M). Refer to your OMRON website for details on PFP- \square .

^{*}Replace the box (\Box) in the model number with the code for the covering color. \Box color selection: R = red, S = blue, Y = yellow

Applicable Cables

Cables with Loose Wires P2RV-ALC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-LIMC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-LIMC OMRON PLC Connectors (1:4) P2RV-4-Soulinc Souling Sou	Name		Appearance	Cable length L (mm)	Connecting Cables	Applicable Connectors	
Section Cables with Loose Park-Asion				1,000	P2RV-A100C		
Name		8 I/O	end unit end	2,000	P2RV-A200C	1,	
1,000 P2RV-4-100C				3,000	P2RV-A300C	- Various devices	
OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□C OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□INC 32 input points 33 input points 34 input points 35 input points 36 input points 37 input points 38 input points 39 input points 30 input points 500 p2RV-4-300IFC PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. "2 PLC I/O Unit			70 L —	5,000	P2RV-A500C		
2,000 P2RV-4-200C PLC I/O Units with MIL connectors (1:4) CJ1W-OD232/OD262, etc. PLC I/O Units with MIL connectors (1:4) CJ1W-OD232/OD262, etc. PLC I/O Units with MIL connectors (1:4) CJ1W-OD232/OD262, etc. PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. T1 PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. T1 PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. T1 PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. T1 PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. T1 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. T2 PLC I/O Units with Fujitsu connectors (1:4) C				1,000	P2RV-4-100C		
Connectors (1:4) P2RV-4-□C P2RV-4-□C P2RV-4-SOOC	Connecting			2,000	P2RV-4-200C		
OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IMC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IMC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-050IFC OMRON PLC Connectors (1:4)	Connectors (1:4)	points		3,000	P2RV-4-300C		
OMRON PLC Connectors (1:4) P2RV-4-\(\text{DIMC}\) OMRON PLC Connectors (1:4) P2RV-4-\(\text{DIMC}\) OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-\(\text{DIMC}\) OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-\(\text{DIFC}\) OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-\(\text{DIFC}\) OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-\(\text{DIFC}\) OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A\(\text{DC-OMR GRT1}\) P3RV-A\(\text{DC-OMR GRT1}\) P3RV-A\(\text{DC-OMR GRT1}\) P3RV-A\(\text{DC-OMR GRT1}\) P3RV-A\(\text{DC-OMR GRT1}\) P3R			300	5,000	P2RV-4-500C		
Connecting Cables with Connectors (1:4) P2RV-4-□IMC 32 input points 2,000 P2RV-4-200IMC PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. *1 OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC 32 input points 32 input points 2,000 P2RV-4-200IFC PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. *2 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 8 output points 500 P2RV-4-300IFC PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. *2 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 8 input points 500 P2RV-A100C-OMR GRT1 Slice I/O Units (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-ID8-1 For				1,000	P2RV-4-100IMC		
Connectors (1:4) P2RV-4-□IMC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-A-□IFC OMRON PLC Connectors (1:1) Silice I/O Units (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID232/ID262, etc. *1 CJ1W-ID232/ID262, etc. *1 CJ1W-ID232/ID262, etc. *1 CJ1W-ID232/ID262, etc. *1	Connecting			2,000	P2RV-4-200IMC		
OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-A-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-A-□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A-□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A-□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) Soo P2RV-A100IC-OMR GRT1 For inputs: GRT1-ID8-1 For outputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. *2 PLC I/O Units (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NS-OD4256	Connectors (1:4)			3,000	P2RV-4-300IMC		
OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 PLC I/O Units with Fujitsu connectors (1:4) CJ1W-ID231/ID261, etc. *2 Slice I/O Units (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-OD4256			300 →	5,000	P2RV-4-500IMC		
Connecting Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:4) P2RV-A□C-OMR GRT1 P3 Supply				1,000	P2RV-4-100IFC		
Cables with Connectors (1:4) P2RV-4-□IFC OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) For inputs: GRT1-OD8-1 P2RV-A□C-OMR GRT1 Slice I/O Units (1:1) For inputs: GRT1-OD8-1 P2RV-A□C-OMR GRT1 1,000 P2RV-A□C-OMR NX PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-ID4442 For outputs: NX-OD4256	Connecting	32 input		2,000	P2RV-4-200IFC		
OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 Slice I/O Units (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-ID4442	Connectors (1:4)	points		3,000	P2RV-4-300IFC		
Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 Slice I/O Units (1:1) For inputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 P2RV-A100IC-OMR GRT1 For outputs: GRT1-ID8-1 For outputs: GRT1-OD8-1 PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-ID4442 For outputs: NX-OD4256			300	5,000	P2RV-4-500IFC	1	
Cables with Connectors (1:1) P2RV-A□C-OMR GRT1 OMRON PLC Connecting Cables with Connectors (1:1) 8 output points 8 output points Cables with Connectors (1:1) P2RV-A050IC-OMR GRT1 500 P2RV-A050IC-OMR GRT1 500 P2RV-A050IC-OMR GRT1 For inputs: GRT1-iD8-1 For outputs: GRT1-OD8-1 For inputs: GRT1-iD8-1 For outputs: GRT1-iD8-1 For output					P2RV-A050C-OMR GRT1		
Solution		points		1,000	P2RV-A100C-OMR GRT1		
OMRON PLC Connecting Cables with Connectors (1:1) 8 output points 1,000 P2RV-A100C-OMR NX 1,000 P2RV-A050C-OMR NX 1,000 P2RV-A050C-OMR NX PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-OD4256	(1:1)			500	P2RV-A050IC-OMR GRT1		
Connecting Cables with Connectors (1:1) 8 input 8 input	P2RV-A□C-OMR GR11	points	← L → I	1,000	P2RV-A100IC-OMR GRT1		
Connecting points 1,000 P2RV-A100C-OMR NX terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-OD4256			Removable terminal block	500	P2RV-A050C-OMR NX	DLC I/O Units with screw-less clamp	
Connectors (1:1) 8 input 500 P2RV-A050IC-OMR NX For inputs: NX-ID4442 For outputs: NX-OD4256		points		1,000	P2RV-A100C-OMR NX	terminal block (1:1)	
P2RV-A□C-OMR NX points 1,000 P2RV-A100IC-OMR NX	Connectors (1:1)			500	P2RV-A050IC-OMR NX		
	P2RV-A□C-OMR NX	points		1,000	P2RV-A100IC-OMR NX	For outputs, 144-004250	

^{*1.} Use the P2RVC-8-I- -1(PNP) as the PLC interface unit when connecting to the CJ1W-ID232/ID262 (or a unit with an equivalent terminal

arrangement). ***2.** Use the P2RVC-8-I-□-1(PNP) as the PLC interface unit when connecting to the CJ1W-ID231/ID261 (or a unit with an equivalent terminal arrangement).

Name		Appearance	Cable length L (mm)	Connecting Cables	Applicable Connectors
		End A End B	500	P2RV-050C-SCH-A	
	32 input	Device PLC interface	1,000	P2RV-100C-SCH-A	
	points	end unit end	2,000	P2RV-200C-SCH-A	
			3,000	P2RV-300C-SCH-A	Schneider Electric PLCs with 32-point connectors (1:4) For inputs: 140 DDI 353 00 For outputs: 140 DDO 353 00
			5,000	P2RV-500C-SCH-A	
			500	P2RV-050C-SCH-B	
	00		1,000	P2RV-100C-SCH-B	
	32 output points		2,000	P2RV-200C-SCH-B	
Schneider Electric			3,000	P2RV-300C-SCH-B	
PLC Connecting			5,000	P2RV-500C-SCH-B	
Cables P2RV-□C-SCH-□			500	P2RV-050C-SCH-C	
2111 00 0011 0	40 :		1,000	P2RV-100C-SCH-C	
	16 input points		2,000	P2RV-200C-SCH-C	
			3,000	P2RV-300C-SCH-C	Schneider Electric PLCs with
			5,000	P2RV-500C-SCH-C	16-point connectors (1:2)
		<u> </u>	500	P2RV-050C-SCH-D	For inputs: BMX DDI 1602 For outputs: BMX DDO 1602
			1,000	P2RV-100C-SCH-D	For outputs. Bivix DDO 1602
	16 output points		2,000	P2RV-200C-SCH-D	
	ponito		3,000	P2RV-300C-SCH-D	
		İ	5,000	P2RV-500C-SCH-D	
			500	P2RV-050C-SIM-A	
			1,000	P2RV-100C-SIM-A	
	32 input points		2,000	P2RV-200C-SIM-A	
	points		3,000	P2RV-300C-SIM-A	Siemens PLCs with 32-point connectors (1:4)
			5,000	P2RV-500C-SIM-A	
			500	P2RV-050C-SIM-B	For inputs: 6ES7 321-1BL00-0AA0
			1,000	P2RV-100C-SIM-B	For outputs: 6ES7 322-1BL00-0AA0
	32 output points		2,000	P2RV-200C-SIM-B	
	points	← L → ← 300 →	3,000	P2RV-300C-SIM-B	
			5,000	P2RV-500C-SIM-B	
			500	P2RV-050C-SIM-C	
Siemens PLC			1,000	P2RV-100C-SIM-C	Siemens PLCs with 16-point connectors (1:2) For inputs: 6ES7 321-1BH02-0AA0
Connecting Cables P2RV-□C-SIM-□	16 input points		2,000	P2RV-200C-SIM-C	
			3,000	P2RV-300C-SIM-C	
		L→L 300 →	5,000	P2RV-500C-SIM-C P2RV-050C-SIM-D	
			1,000	P2RV-050C-SIM-D	-
	32 input		2,000	P2RV-100C-SIM-D	-
	points		3,000	P2RV-200C-SIM-D	-
			5,000	P2RV-500C-SIM-D	Siemens PLCs with
	32 output points		5,000	P2RV-500C-SIM-D	32-point connectors (1:4) For inputs: 6ES7 421-1BL-0AA0
					For outputs: 6ES7 422-1BL-0AA0
			1,000	P2RV-100C-SIM-E	-
			2,000	P2RV-200C-SIM-E	-
		1	3,000	P2RV-300C-SIM-E	-
			5,000	P2RV-500C-SIM-E	

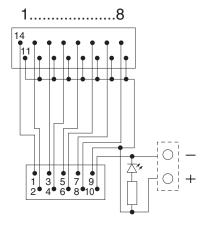
PLC interface unit

Ratings / characteristices

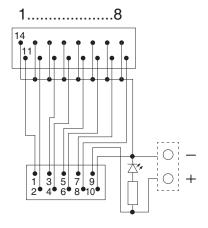
Rated voltage		30 VAC/DC		
Rated current		0.5 A/poles, 2 A/unit		
Ambient operating tempe	rature	-40 to 55°C		
Vibration resistance	Destruction	10 to 55 to 10 Hz, single amplitude 0.75 mm (double amplitude 1.5 mm)		
	Malfunction	10 to 55 to 10 Hz, single amplitude 0.75 mm (double amplitude 1.5 mm)		
Shock resistance Destruction		300 m/s ²		
SHOCK resistance	Malfunction	100 m/s ²		

Electrical schematic

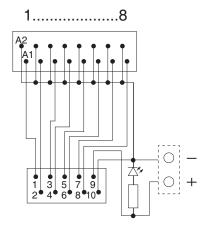
Input P2RVC-8-I-□-1 (PNP)



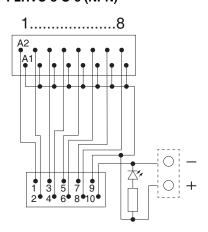
P2RVC-8-I-5 (NPN)



Output P2RVC-8-O-□-1 (PNP)



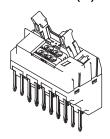
P2RVC-8-O-5 (NPN)



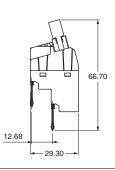
(unit: mm)

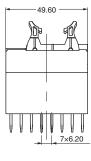
PLC interface unit

Push-IN P2RVC-8-I-5(-1) P2RVC-8-O-5(-1)

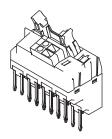




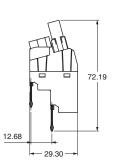


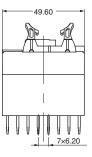


Screw P2RVC-8-I-7-1 P2RVC-8-0-7-1







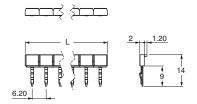


(Except for PLC interface unit) Common Accessories (order separately)

Dimensions (unit: mm)

Short Bars

PYDN-6.2-□□ (6.2 mm)

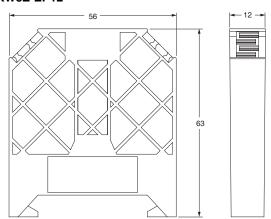


Pitch	No. of poles	L (Length)	Colors	Model *	Maximum carry current
	2	12.4		PYDN-6.2-020□	
6.2 mm	3	18.6	Red (R) Blue (S)	PYDN-6.2-030□	l
	4	24.8		PYDN-6.2-040□	32 A
	10	62	Yellow (Y)	PYDN-6.2-100□	
	20	124		PYDN-6.2-200□	

Note: Use the Short Bars for crossover wiring within one Socket or between Sockets. **★** Replace the box (□) in the model number with the code for the covering color.

Model	Number of arrows	Top View
PYDN-6.2-020□	1	
PYDN-6.2-030□	2	
PYDN-6.2-040□	2	
PYDN-6.2-100□	6	
PYDN-6.2-200□	14	

Separate Plate XW5Z-EP12



Parts for DIN Track Mounting

Refer to your OMRON website for details on the PFP-.

G2RV-SR/G3RV-SR

Safety Precautions

Precautions for Correct Use

When mounting a short bar

• Intermediate pins can be bent by a tool or by hand and cut off for use.

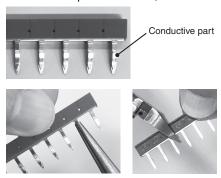


The short bar can be cut to as many poles as needed. Insert the
tool from the plastic part side, and cut along the groove in the
plastic part between the terminals. When cutting, take care not to
break or deform the terminals.

However, because the metal on the cut surface will be exposed, insulation countermeasures between adjacent products must be ensured. Such countermeasures include widening the intervals between products or using XW5Z-EP12 separate plates (order separately).



 When cutting the short bar or its pins, do not touch the conductive part. If the conductive part is deformed, contact failure may result.



Mounting a separate plate

 Use a flat-blade screwdriver to tighten the center top screw and secure the plate. Loosen the screw to remove the plate from the DIN rail.





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