

**For G2RV-ST/G3RV-ST
Common Accessories (order separately)**

Ordering Information

Short Bars

Appearance	Pitch	No. of poles	Colors	Model #1	Minimum order (Quantity)	Maximum energizing current
	6.2 mm	20	Red (R), Blue (S), Yellow (Y)	PYDN-6.2ST-200□	10 *2	32 A

Note: Use for wiring to the adjacent socket.

*1. Replace the box (□) in the model number with the code for the covering color. □ color selection: R = red, S = blue, Y = yellow

*2. Short bars come in bags of 10.

Label

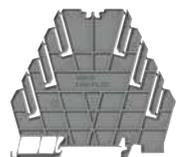
Model	Manufacturer	Minimum order (Box) (quantity per box)
MG-CPM-04 41390N	Cembre	Box 1,680 pieces (35 sheet / 48 pieces)
XW5Z-P2.5LB1	Omron	Sheet 360 pieces (5 sheet / 72 pieces)

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

Separate Plate

Appearance	Model
	XW5Z-EP12

Isolation plate

Appearance	Model
	P2RV-P3.1ST

PLC interface unit

Appearance	I/O classification	Connection method	Common process	Applicable Models *1	Model
	For input	Push-In	PNP	G2RV-ST500-AP *2	P2RVC-8ST-I-5-1
		Screw	NPN		P2RVC-8ST-I-5
	For output	Push-In	PNP	G2RV-ST700-AP *2	P2RVC-8ST-I-7-1
		Screw	NPN		G3RV-ST500(-D)/(-D-H)/ (-A)/(-AL) or G3RV-ST500 series *3
	Screw	PNP	G3RV-ST700(-D)/(-D-H)/ (-A)/(-AL) or G3RV-ST500 series *3	P2RVC-8ST-O-7-1	

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

*2. The maximum contact voltage is 30 VAC/DC.

*3. Operating coils are only available in 12 and 24 VDC and 24 VAC/DC.

Parts for DIN Track Mounting

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

* When mounting DIN Track, please use End Plate (PFP-M).

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

G2RV-ST/G3RV-ST

Applicable Cables

Name		Appearance	Cable length L (mm)	Connecting Cables	Applicable Connectors
G2RV-ST Cables with Loose Wires P2RV-A□C	8 I/O points		1,000	P2RV-A100C	Various devices
			2,000	P2RV-A200C	
			3,000	P2RV-A300C	
			5,000	P2RV-A500C	
G3RV-ST OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□C	32 output points		1,000	P2RV-4-100C	PLC I/O Units with MIL connectors (1:4) CJ1W-OD232/OD262, etc.
			2,000	P2RV-4-200C	
			3,000	P2RV-4-300C	
			5,000	P2RV-4-500C	
G3RV-ST OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IMC	32 input points		1,000	P2RV-4-100IMC	PLC I/O Units with MIL connectors (1:4) CJ1W-ID232/ID262, etc. *1
			2,000	P2RV-4-200IMC	
			3,000	P2RV-4-300IMC	
			5,000	P2RV-4-500IMC	
Common Precautions OMRON PLC Connecting Cables with Connectors (1:4) P2RV-4-□IFC	32 input points		1,000	P2RV-4-100IFC	PLC I/O Units with Fujitsu/Otax connectors (1:4) CJ1W-ID231/ID261, etc. *2
			2,000	P2RV-4-200IFC	
			3,000	P2RV-4-300IFC	
			5,000	P2RV-4-500IFC	
Common Precautions OMRON PLC Connecting Cables with Connectors (1:1) P2RV-A□C-OMR NX	8 output points		500	P2RV-A050C-OMR NX	PLC I/O Units with screw-less clamp terminal block (1:1) For inputs: NX-ID4442 For outputs: NX-OD4256
	8 input points		1,000	P2RV-A100C-OMR NX	
			500	P2RV-A050IC-OMR NX	
			1,000	P2RV-A100IC-OMR NX	

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

G2RV-ST

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Common Precautions

Common Accessories

Name	Appearance	Cable length L (mm)	Connecting Cables	Applicable Connectors	
Schneider Electric PLC Connecting Cables P2RV-□C-SCH-□		500	P2RV-050C-SCH-A	Schneider Electric PLCs with 32-point connectors (1:4) For inputs: 140 DDI 353 00 For outputs: 140 DDO 353 00	
		1,000	P2RV-100C-SCH-A		
		2,000	P2RV-200C-SCH-A		
		3,000	P2RV-300C-SCH-A		
		5,000	P2RV-500C-SCH-A		
		500	P2RV-050C-SCH-B		
		1,000	P2RV-100C-SCH-B		
		2,000	P2RV-200C-SCH-B		
		3,000	P2RV-300C-SCH-B		
		5,000	P2RV-500C-SCH-B		
		500	P2RV-050C-SCH-C	Schneider Electric PLCs with 16-point connectors (1:2) For inputs: BMX DDI 1602 For outputs: BMX DDO 1602	
		1,000	P2RV-100C-SCH-C		
		2,000	P2RV-200C-SCH-C		
		3,000	P2RV-300C-SCH-C		
		5,000	P2RV-500C-SCH-C		
			500		P2RV-050C-SCH-D
1,000	P2RV-100C-SCH-D				
2,000	P2RV-200C-SCH-D				
3,000	P2RV-300C-SCH-D				
5,000	P2RV-500C-SCH-D				
	500		P2RV-050C-SIM-A	Siemens PLCs with 32-point connectors (1:4) For inputs: 6ES7 321-1BL00-0AA0 For outputs: 6ES7 322-1BL00-0AA0	
	1,000	P2RV-100C-SIM-A			
	2,000	P2RV-200C-SIM-A			
	3,000	P2RV-300C-SIM-A			
	5,000	P2RV-500C-SIM-A			
		500	P2RV-050C-SIM-B		Siemens PLCs with 16-point connectors (1:2) For inputs: 6ES7 321-1BH02-0AA0
		1,000	P2RV-100C-SIM-B		
		2,000	P2RV-200C-SIM-B		
		3,000	P2RV-300C-SIM-B		
		500	P2RV-050C-SIM-C		Siemens PLCs with 32-point connectors (1:4) For inputs: 6ES7 421-1BL-0AA0 For outputs: 6ES7 422-1BL-0AA0
1,000		P2RV-100C-SIM-C			
2,000		P2RV-200C-SIM-C			
3,000		P2RV-300C-SIM-C			
	500	P2RV-050C-SIM-D	Siemens PLCs with 32-point connectors (1:4) For inputs: 6ES7 421-1BL-0AA0 For outputs: 6ES7 422-1BL-0AA0		
	1,000	P2RV-100C-SIM-D			
	2,000	P2RV-200C-SIM-D			
	3,000	P2RV-300C-SIM-D			
	5,000	P2RV-500C-SIM-D			
		500		P2RV-050C-SIM-E	Siemens PLCs with 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	
		3,000		P2RV-300C-SIM-E	
		5,000		P2RV-500C-SIM-E	

G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST/G3RV-ST

PLC interface unit

Ratings / characteristics

Rated insulation voltage		30 VAC/DC *
Rated current		0.5 A/poles, 2 A/unit
Ambient operating temperature		-40 to 55°C
Vibration resistance	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	Destruction	300 m/s ²
	Malfunction	100 m/s ²

* DC voltage is limited to 30 V.

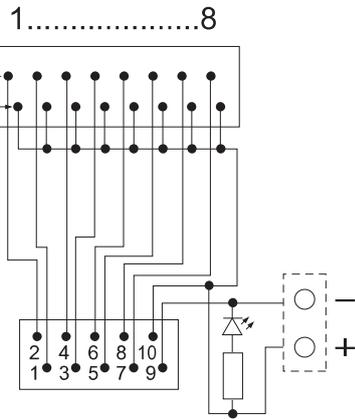
Electrical schematic

Input

P2RVC-8ST-I-□-1 (PNP)

Number on P2RVC

Terminal layout
(viewed from top of product)

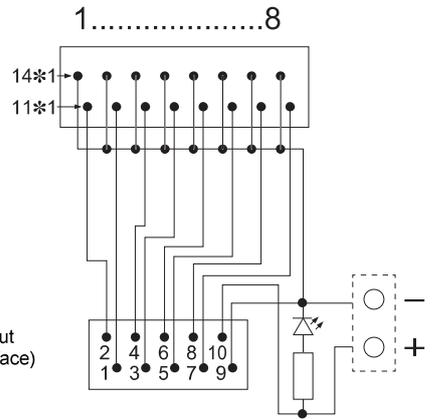


Connector pin (male) layout
(viewed from gripping surface)

P2RVC-8ST-I-5 (NPN)

Number on P2RVC

Terminal layout
(viewed from top of product)



Connector pin (male) layout
(viewed from gripping surface)

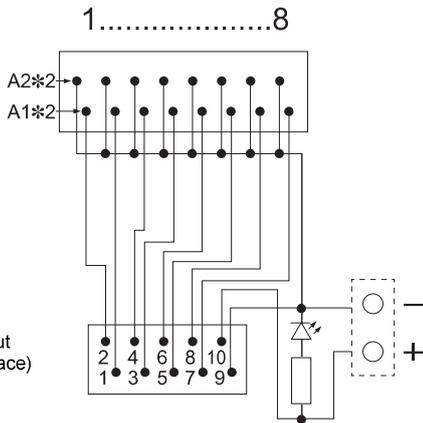
*1. Terminal numbers on G2RV-ST

Output

P2RVC-8ST-O-□-1 (PNP)

Number on P2RVC

Terminal layout
(viewed from top of product)

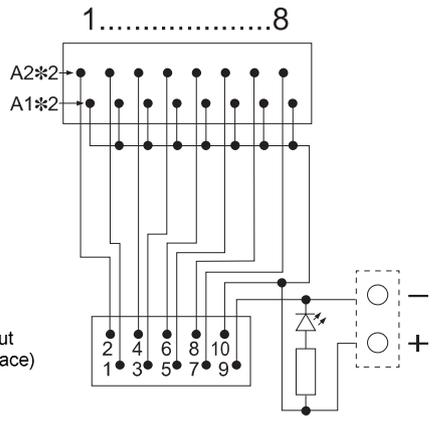


Connector pin (male) layout
(viewed from gripping surface)

P2RVC-8ST-O-5 (NPN)

Number on P2RVC

Terminal layout
(viewed from top of product)



Connector pin (male) layout
(viewed from gripping surface)

*2. Terminal numbers on G2RV-ST/G3RV-ST

G2RV-ST

G3RV-ST

Common Precautions

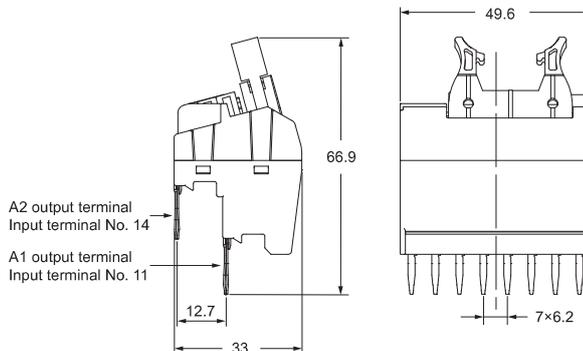
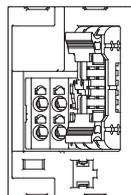
Common Accessories

Dimensions

PLC interface unit

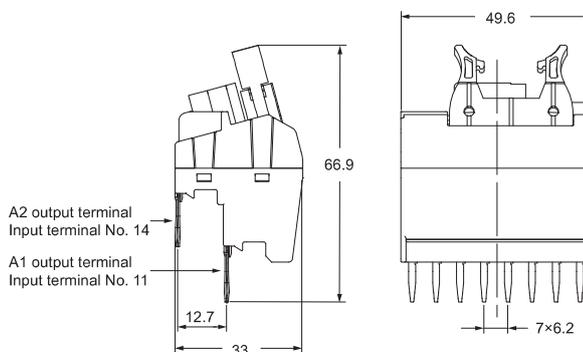
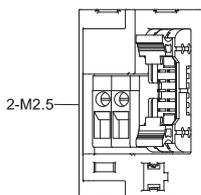
Push-IN

- P2RVC-8ST-I-5(-1)
- P2RVC-8ST-O-5(-1)



Screw

- P2RVC-8ST-I-7-1
- P2RVC-8ST-O-7-1



G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST/G3RV-ST

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

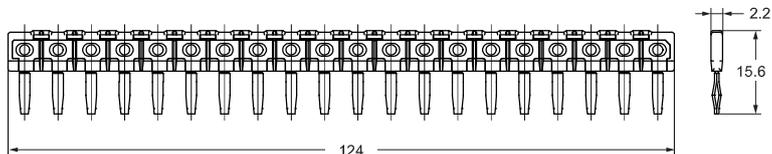
G2RV-ST

Dimensions

(unit: mm)

Short Bars

PYDN-6.2ST-200□



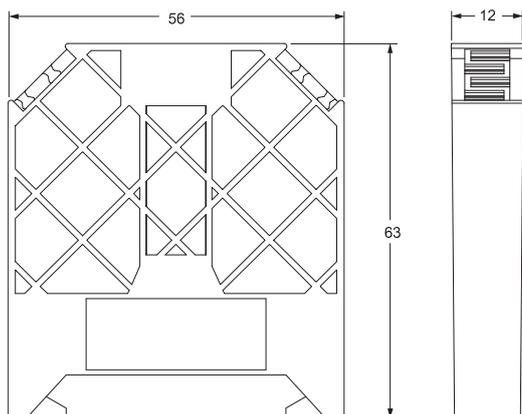
Pitch	No. of poles	L (Length)	Colors	Model #	Maximum carry current
6.2 mm	20	124	Red (R) Blue (S) Yellow (Y)	PYDN-6.2ST-200□	32 A

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.

G3RV-ST

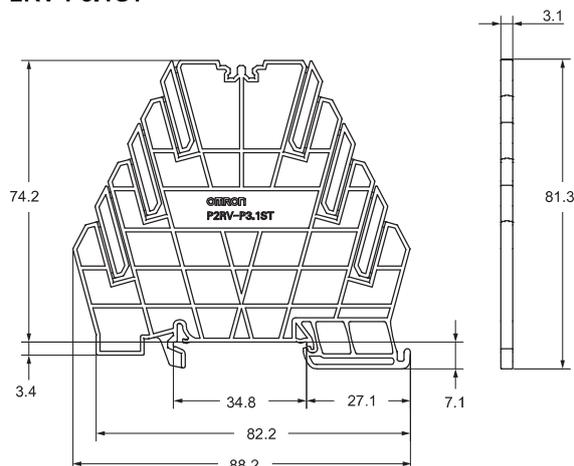
Separate Plate

XW5Z-EP12



Isolation plate

P2RV-P3.1ST



Common Precautions

Parts for DIN Track Mounting

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

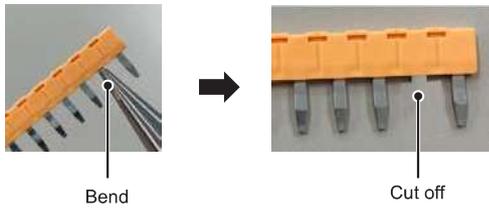
Common Accessories

Safety Precautions

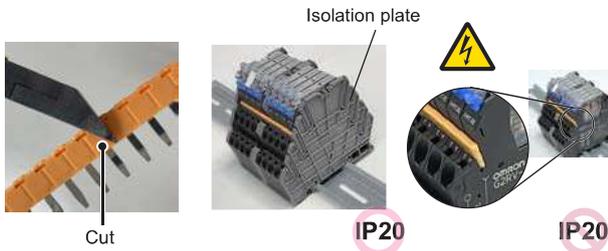
Precautions for Correct Use

When mounting a short bar

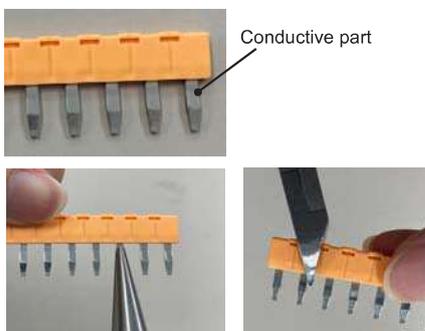
- Intermediate pins can be bent by a tool and cut off for use.



- 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, since the metal on the cut surface will be exposed, human safety and insulation countermeasures between adjacent products must be ensured. Such countermeasures include using insulating plate model P2RV-P3.1-ST or taking an equivalent insulation countermeasure.



- When cutting the short bar or its pins, do not touch the conductive part. If the conductive part is deformed, contact failure may result.
- When cutting the product, check that there is no person nearby and take care that a cut off piece does not fly off.



Using an isolation plate and short bar together

- Using two isolation plates makes it possible to configure the same 6.2 mm pitch used by slim relays and short bars.
- When using a short bar with two isolation plates, cutting the joining parts of the isolation plate make it possible to use the short bar without cutting the conductive part.
- The joining parts of the isolation plate can be easily cut using needle-nose pliers.
- Cut the joining parts for a single isolation plate at a time.

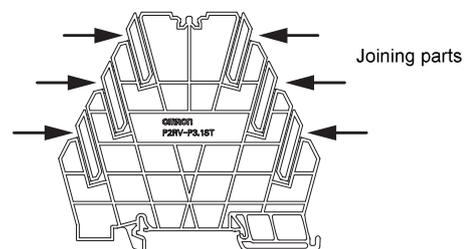
Connecting two isolation plates with a short bar



Isolation plate



- After mounting to a DIN rail, check that the product is correctly held in place.



G2RV-ST

G3RV-ST

Common Precautions

Common Accessories

G2RV-ST

Removing the PLC interface

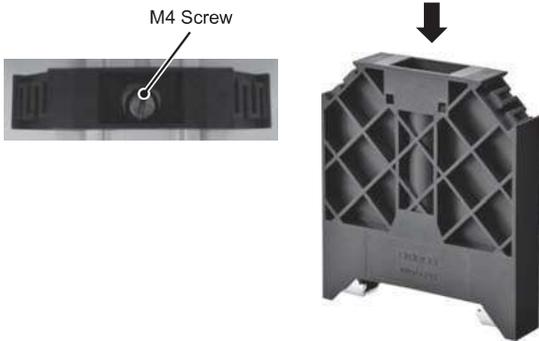
- To remove the PLC interface, place a finger at the location indicated below and pull out the interface.



G3RV-ST

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.



Common Precautions

Common Accessories