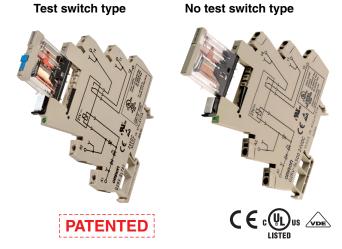
Slim Relay G2RV

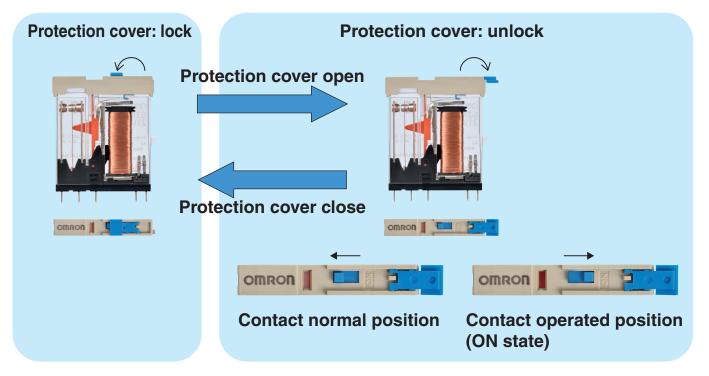
The only truly industrial 6 mm relay

- Lockable test switch models now available.
- Large plug-in terminals for reliable connection.
- LED indicator and mechanical flag for status indication.
- Input type with gold plated contacts available.
- Transparent housing allows inspection of contact condition.
- Slim width to save space.
- Push-in terminals and accessories for easy wiring.
- · Lloyd's approval (pending)



Features

■ Test switch operation



OMRON Lockable test switch can be used in this way:

When the protection cover (located directly over the test switch) is closed, the test switch is retained in normal position (OFF state) by the protection cover. After opening the protection cover, the test switch can be unlocked. The test switch can then be moved to the operated position (ON state). After using the test switch, move it to the normal position (OFF state) and close the protection cover to prevent unwanted operation of the test switch.

* Please check Precautions (Page. 17 : Precaution of test switch operation) when using test switch.

Application of test switch:

Example: Checking operation of Relays and sequence circuits.

Model Number Structure

Model Number Legend

$\begin{array}{c} \textbf{G2RV-SL} \\ 1 \end{array} \begin{array}{[]{c} \square \end{array} \\ 2 \end{array} \begin{array}{[]{c} \square \end{array} \\ 3 \end{array} \begin{array}{[]{c} \square \end{array} \\ 4 \end{array} \begin{array}{[]{c} \square \end{array} \\ 5 \end{array} \begin{array}{[]{c} \square \end{array} \\ 5 \end{array} \begin{array}{[]{c} \square \end{array} \\ 6 \end{array} \end{array}$

- 1. Auxiliary Type Designation
- SL: Slim relay and socket combination
- 2. Wire Connection
 - 7: Screw terminals
 - 5: Push-in terminals
- 3. Relay LED
 - 0: Without LED

Note: LED indicator available on socket.

Ordering Information

■ List of Models

| Classification | | Enclosure | | | Test | Contact form (SPDT) | |
|-------------------|-----------------|---------------------------|-------|-------------------|--------|---------------------|---------------|
| | | rating voltage connection | | connection | switch | Standard type | Input type |
| Plug-in terminals | General-purpose | Unsealed | AC/DC | Screw terminals | No | G2RV-SL700 | G2RV-SL700-AP |
| | | | | | Yes | G2RV-SL701 | |
| | | | | Push-in terminals | No | G2RV-SL500 | G2RV-SL500-AP |
| | | | | | Yes | G2RV-SL501 | |

4. Relay Test switch

AP: Input type Blank: Standard type

6. Input Voltage

0: No test switch type

1: Test switch type **5. Contact form**

Relay and Socket Combinations

No test switch type

| Input voltage | Contact form (SPDT) | | | | | |
|---------------|----------------------|----------------------|-------------------------|-------------------------|--|--|
| | Standard type (| No test switch type) | Input type (No | test switch type) | | |
| | Screw terminals | Push-in terminals | Screw terminals | Push-in terminals | | |
| 12 VDC | G2RV-SL700 12 VDC | G2RV-SL500 12 VDC | G2RV-SL700-AP 12 VDC | G2RV-SL500-AP 12 VDC | | |
| 24 VDC | G2RV-SL700 24 VDC | G2RV-SL500 24 VDC | G2RV-SL700-AP 24 VDC | G2RV-SL500-AP 24 VDC | | |
| 24 VAC/DC | G2RV-SL700 24 VAC/DC | G2RV-SL500 24 VAC/DC | G2RV-SL700-AP 24 VAC/DC | G2RV-SL500-AP 24 VAC/DC | | |
| 48 VAC/DC | G2RV-SL700 48 VAC/DC | G2RV-SL500 48 VAC/DC | G2RV-SL700-AP 48 VAC/DC | G2RV-SL500-AP 48 VAC/DC | | |
| 110 VAC | G2RV-SL700 110 VAC | G2RV-SL500 110 VAC | G2RV-SL700-AP 110 VAC | G2RV-SL500-AP 110 VAC | | |
| 230 VAC | G2RV-SL700 230 VAC | G2RV-SL500 230 VAC | G2RV-SL700-AP 230 VAC | G2RV-SL500-AP 230 VAC | | |

Test switch type

| Input voltage | Contact form (SPDT) | | | | |
|---------------|----------------------|----------------------|-----------------|-------------------|--|
| | Standard type (| Test switch type) | Input type (Te | st switch type) | |
| | Screw terminals | Push-in terminals | Screw terminals | Push-in terminals | |
| 24 VDC | G2RV-SL701 24 VDC | G2RV-SL501 24 VDC | | | |
| 24 VAC/DC | G2RV-SL701 24 VAC/DC | G2RV-SL501 24 VAC/DC | | | |

2 Slim Relay **G2RV**

Specifications

■ Input Ratings

| Rated voltage | I | Rated curre | nt*1 | Must operate voltage | Must release voltage | Power co | nsumption | Input voltage |
|---------------|---------|-------------|---------|-------------------------|-------------------------|----------|-----------|--------------------|
| | | AC | DC | % of rate | d voltage | AC (VA) | DC (mW) | % of rated voltage |
| | 50 Hz | 60 Hz | | | | Approx. | Approx. | |
| 12 VDC | | | 27.2 mA | 80% | 10% | | 300 mW | ±10% |
| 24 VDC | | | 13.3 mA | | | | 300 mW | |
| 24 VAC/DC | 21.1 mA | 22.5 mA | 13.0 mA | | | 0.5 VA | 300 mW | |
| 48 VAC/DC | 8.5 mA | 9.0 mA | 5.2 mA | | | 0.4 VA | 250 mW | |
| 110 VAC | 7.1 mA | 7.5 mA | | | | 0.8 VA | | |
| 230 VAC | 7.3 mA | 7.9 mA | | | | 1.7 VA | | |

*1) Rated currents are measured at 23 degrees Celsius (ambient)

■ Contact Ratings

| Item | Standard type (G2F | RV-SL700, 500, 701, 501) | Input type (G2RV-SL700-AP, 500-AP)*2 |
|----------------------------------|----------------------------------|---|--------------------------------------|
| Number of poles | 1 pole | | |
| Load | Resistive load $(\cos\phi = 1)$ | Inductive load $(\cos\phi = 0.4, L/R = 7 ms)$ | Resistive load $(\cos\phi = 1)$ |
| Rated load | 6 A at 250 VAC; 6 A at 30 VDC | 2.5 A at 250 VAC; 2 A at 30 VDC | 50 mA at 30 VAC; 50 mA at 36 VDC |
| Rated carry current | 6 A | | 50 mA |
| Max. switching voltage | 400 VAC, 125 VDC | | 30 VAC, 36 VDC |
| Max. switching current | 6 A | | 50 mA |
| Max. switching power | 1,500 VA 180 W | 500 VA 60 W | |
| Failure rate (reference value)*1 | 10 mA at 5 VDC (P leve | l) | 1 mA at 100 mVDC (P level) |

*1) P level: λ_{60} = 0.1 \times 10^-6/operation

*2) If a gold layer is destroyed, contact ratings of standard type are applicable.

■ Characteristics

| Item | Standard type (G2RV-SL700, 500, 701, 501) | Input type (G2RV-SL700-AP, 500-AP) | | | | |
|--------------------------|---|--|--|--|--|--|
| Contact resistance | 100 mΩ max. | | | | | |
| Operate (set) time | 20 ms max. | 20 ms max. | | | | |
| Release time | 40 ms max. | 40 ms max. | | | | |
| Max. operating frequency | Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load) | Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load) | | | | |
| Insulation resistance | 1,000 MΩ min. (at 500 VDC) | | | | | |
| Dielectric strength | 4,000 VAC, 50/60 Hz for 1 min between coil and cor 1,000 VAC, 50/60 Hz for 1 min between contacts of | itacts*; same polarity | | | | |
| Vibration resistance | | Destruction: 10 to 55 to 10 Hz, 0.50 mm single amplitude (1.0 mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.50 mm single amplitude (1.0 mm double amplitude) | | | | |
| Shock resistance | Destruction: 1,000 m/s ² Malfunction: 200 m/s ² when energized; 100 m/s ² wh | en not energized | | | | |
| Endurance | Mechanical: 5,000,000 operations min. Electrical: 100,000 Typical; NO 70,000 operations min. ; NC 50,000 operations min. | Mechanical: 5,000,000 operations min. Electrical: 5,000,000 operations min. | | | | |
| Ambient temperature | Operating: -40°C to 55°C (with no icing or condense | ation) | | | | |
| Ambient humidity | Operating: 5% to 85% | | | | | |
| Weight | Approx. 35 g | | | | | |
| Overvoltage category | 111 | | | | | |
| Pollution degree | 2 | | | | | |
| Contact material | AgSnIn | AgSnIn + Gold Plating | | | | |
| Creepage distance | 7.0 mm | • | | | | |
| Clearance distance | 5.5 mm | | | | | |

Note: Values in the above table are the initial values.

■ Approved Standards

UL 508 (File No. E41643)

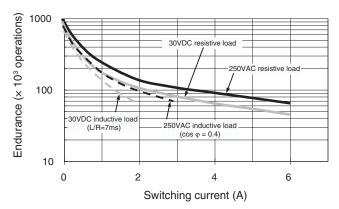
| Model | Contact form | Coil ratings | Contact ratings | Operations |
|----------------|--------------|---------------|------------------------------|------------|
| G2RV-SL Series | SPDT | 12 to 48 VDC | 250 VAC 6 A (Resistive Load) | 6,000 |
| | | 24 to 230 VAC | 30 VDC 6 A (Resistive Load) | |
| | | | 400 VAC 2 A (Resistive Load) | |

IEC/VDE (EN 61810)

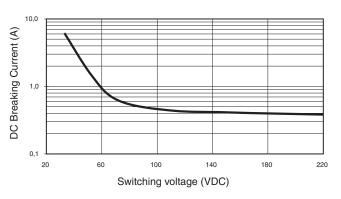
| Contact form | Coil ratings | Contact ratings | Operations |
|--------------|---------------|------------------------------|------------|
| SPDT | 12, 24 VDC | 250 VAC 6 A (Resistive Load) | 50,000 |
| | 24, 48 VAC/DC | 30 VDC 6 A (Resistive Load) | 50,000 |
| | 110, 230 VAC | 400 VAC 2 A (Resistive Load) | 6,000 |

Engineering Data

Endurance



Switching capacity of DC resistive load



Typical Operating and Release Time

| Model number | Operating time (typical) | Release time (typical) |
|-----------------------|--------------------------|------------------------|
| G2RV-SL700/500 DC12 | 5 ~ 7 ms | 5 ~ 8 ms |
| G2RV-SL7 | 5 ~ 7 ms | 6 ~ 9 ms |
| G2RV-SL70/500 AC/DC24 | 5 ~ 7 ms | 17 ~ 22 ms |
| G2RV-SL70/50 AC/DC48 | 5 ~ 7 ms | 22 ~ 30 ms |
| G2RV-SL70/500 AC110 | 12 ~ 15 ms | 22 ~ 30 ms |
| G2RV-SL70/50 AC230 | 12 ~ 15 ms | 22 ~ 30 ms |

Accessories

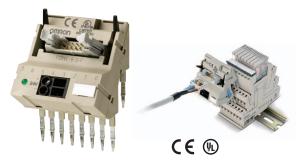
■ PLC Interface P2RVC-8-□-F

| Contact form | Relay | PLC Interface |
|---------------|----------------------|---------------|
| Standard type | G2RV-SL70 series | P2RVC-8-O-F |
| Input type | G2RV-SL700-AP series | P2RVC-8-I-F |

P2RVC-8-O-F (for G2RV-SL70 series only)

List of Models

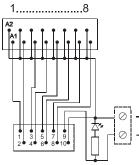
| Model number | Description | Connection |
|--------------|-------------|---|
| | | Ribbon cable connector 10 Pole, IEC603/1 |



Specifications

| Input | Rated voltage | 30 VAC/VDC max. |
|-----------------|-------------------------|--|
| | Current capacity | 0.5 A per channel |
| | | 2.0 A total current, power supply terminal |
| Characteristics | Ambient temperature | Operating: 0 to 55°C Storage: –20 to 85°C |
| | Overvoltage category | 111 |
| | Pollution degree | 2 |

Electrical schematic P2RVC-8-O-F



P2RVC-8-I-F (for G2RV-SL700-AP series only)

List of Models

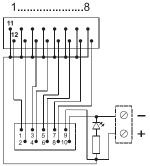
| Model number | Description | Connection |
|--------------|-------------|---|
| | | Ribbon cable connector 10 Pole, IEC603/1 |



Specifications

| Input Rated voltage | | 30 VAC/VDC max. |
|---------------------|-------------------------|--|
| | Current capacity | 0.5 A per channel |
| | | 2.0 A total current, power supply terminal |
| Characteristics | Ambient temperature | Operating: 0 to 55°C Storage: –20 to 85°C |
| | Overvoltage category | III |
| | Pollution degree | 2 |

Electrical schematic P2RVC-8-I-F



■ Cables for PLC Interface P2RVC-8-□-F

Cables selection List

| Output | | | |
|----------------------|---|--|--|
| Model number | To be used for (combined with P2RVC-8-O-F) | | |
| P2RV-4-100C | CJ1W-OD232/OD262 | | |
| | | | |
| P2RV-4-200C | CJ1W-OD232/OD262 | | |
| | | | |
| P2RV-4-300C | CJ1W-OD232/OD262 | | |
| | | | |
| P2RV-4-500C | CJ1W-OD232/OD262 | | |
| P2RV-A100C | Universal (stranded wires) | | |
| . = | , , | | |
| P2RV-A200C | Universal (stranded wires) | | |
| P2RV-A300C | Universal (stranded wires) | | |
| P2RV-A500C | Universal (stranded wires) | | |
| P2RV-A050C-OMR GRT1 | GRT1-OD8(G)-1 | | |
| P2RV-A100C-OMR GRT1 | GRT1-OD8(G)-1 | | |
| P2RV-A050C-OMR NX | NX-OD4256 | | |
| P2RV-A100C-OMR NX | NX-OD4256 | | |
| P2RV-200C-SIM S7/300 | 6ES7 322-1BL00-0AA0, 32DO | | |
| P2RV-250C-SIM S7/300 | 6ES7 322-1BL00-0AA0, 32DO | | |
| P2RV-300C-SIM S7/300 | 6ES7 322-1BL00-0AA0, 32DO | | |
| P2RV-500C-SIM S7/300 | 6ES7 322-1BL00-0AA0, 32DO | | |
| P2RV-200C-SIM S7/400 | 6ES7422-1BL00-0AA0 & 6ES7422-7BL00-0AB0, 32DO | | |
| P2RV-250C-SIM S7/400 | 6ES7422-1BL00-0AA0 & 6ES7422-7BL00-0AB0, 32DO | | |
| P2RV-300C-SIM S7/400 | 6ES7422-1BL00-0AA0 & 6ES7422-7BL00-0AB0, 32DO | | |
| P2RV-500C-SIM S7/400 | 6ES7422-1BL00-0AA0 & 6ES7422-7BL00-0AB0, 32DO | | |

| Input | | | |
|----------------------|---|--|--|
| Model number | To be used for (combined with P2RVC-8-I-F) | | |
| P2RV-4-100IFC | CJ1W-ID231/ID233/ID261 | | |
| P2RV-4-100IMC | CJ1W-ID233/ID262 | | |
| P2RV-4-200IFC | CJ1W-ID231/ID233/ID261 | | |
| P2RV-4-200IMC | CJ1W-ID233/ID262 | | |
| P2RV-4-300IFC | CJ1W-ID231/ID233/ID261 | | |
| P2RV-4-300IMC | CJ1W-ID233/ID262 | | |
| P2RV-4-500IFC | CJ1W-ID231/ID233/ID261 | | |
| P2RV-4-500IMC | CJ1W-ID233/ID262 | | |
| P2RV-A100C | Universal (stranded wires) | | |
| P2RV-A200C | Universal (stranded wires) | | |
| P2RV-A300C | Universal (stranded wires) | | |
| P2RV-A500C | Universal (stranded wires) | | |
| P2RV-A050IC-OMR GRT1 | GRT1-ID8-1 | | |
| P2RV-A100IC-OMR GRT1 | GRT1-ID8-1 | | |
| P2RV-A050IC-OMR NX | NX-ID4442 | | |
| P2RV-A100IC-OMR NX | NX-ID4442 | | |
| P2RV-200C-SIM S7/300 | 6ES7 321-1BL00-0AA0, 32DI | | |
| P2RV-250C-SIM S7/300 | 6ES7 321-1BL00-0AA0, 32DI | | |
| P2RV-300C-SIM S7/300 | 6ES7 321-1BL00-0AA0, 32DI | | |
| P2RV-500C-SIM S7/300 | 6ES7 321-1BL00-0AA0, 32DI | | |
| P2RV-200C-SIM S7/400 | 6ES7421-1BL00-0AA0 & 6ES7421-1BL01-0AA0, 32DI | | |
| P2RV-250C-SIM S7/400 | 6ES7421-1BL00-0AA0 & 6ES7421-1BL01-0AA0, 32DI | | |
| P2RV-300C-SIM S7/400 | 6ES7421-1BL00-0AA0 & 6ES7421-1BL01-0AA0, 32DI | | |
| P2RV-500C-SIM S7/400 | 6ES7421-1BL00-0AA0 & 6ES7421-1BL01-0AA0, 32DI | | |

P2RV-4-00C P2RV-4-00IMC

P2RV-4-

Cable to connect CJ1 to $4 \times P2RVC-8-\Box$ -F

List of Models

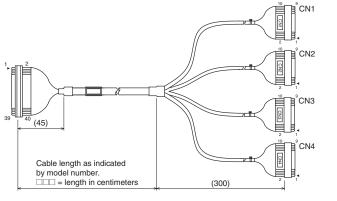
| I/O | Model number | Cable length | Interface unit | PLC Connection | Connectors |
|--------|----------------------------|--------------|----------------|-----------------|---------------|
| Output | Output P2RV-4-100C 1.0 m F | | P2RVC-8-O-F | OMRON PLC | MIL40 - MIL10 |
| | P2RV-4-200C | 2.0 m | × 4 | CJ1 Series: MIL | × 4 |
| | P2RV-4-300C | 3.0 m | | | |
| | P2RV-4-500C | 5.0 m | | | |
| Input | P2RV-4-100IMC | 1.0 m | P2RVC-8-I-F | OMRON PLC | MIL40 - MIL10 |
| | P2RV-4-200IMC | 2.0 m | × 4 | CJ1 Series: MIL | × 4 |
| | P2RV-4-300IMC | 3.0 m | | | |
| | P2RV-4-500IMC | 5.0 m | | | |
| Input | P2RV-4-100IFC | 1.0 m | P2RVC-8-I-F | OMRON PLC | FCN40 -MIL10 |
| | P2RV-4-200IFC | 2.0 m | × 4 | CJ1 Series: | × 4 |
| | P2RV-4-300IFC | 3.0 m |] | Fujitsu | |
| | P2RV-4-500IFC | 5.0 m | | | |



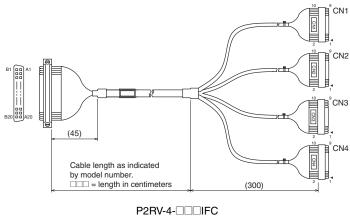
P2RV-4-DDC/P2RV-4-DDIMC



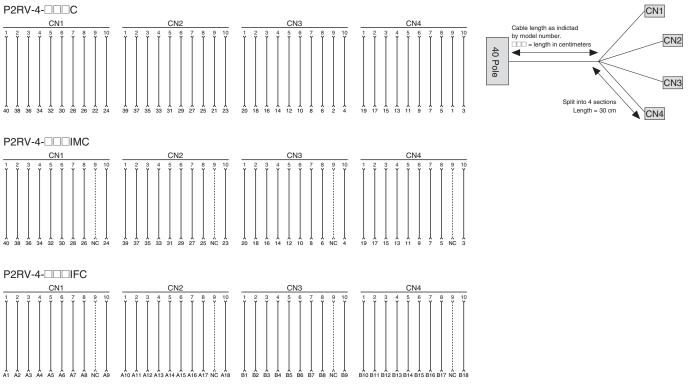
P2RV-4-DDIFC



P2RV-4-DDC/P2RV-4-DDIMC



4×10 pole IDC mounting to $4 \times P2RVC-8-\Box$ -F



40 pole IDC mounting to Omron PLC CJ1-OD232

Technical data

| Control line AWG28/0.08 mm ² , tin-plated copper | |
|---|--|
| Diameter cable | 10.7 mm (one end splits into 4 sections: A, B, C, D) |
| Operating voltage | 60 VDC |
| Continuous current per signal wire | 0.5 A |
| Max. total current, 4 bytes, each | 1.0 A |
| Test voltage | 0.5 KV, 50 Hz, 1 min |
| Operating temperature range | -20°C to +50°C |

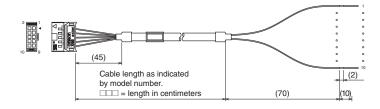
P2RV-A

Cable, single sided 10 pole IDC connector, to connect to P2RVC-8-D-F

List of Models

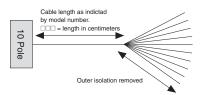
| I/O | Model number | Cable length | Interface unit | PLC interface | Connectors |
|--------------------|--------------|--------------|----------------|---------------|--------------|
| | P2RV-A100C | 1.0 m | P2RVC-8-□-F | | MIL10 - |
| (Output/ Input) | P2RV-A200C | 2.0 m | | | No connector |
| input) | P2RV-A300C | 3.0 m | | | |
| | P2RV-A500C | 5.0 m | | | |





10 pole IDC mounting to P2RVC-8-D-F

| 10 | · | ~ | GRAY/BLACK | |
|----|-------------|---|--------------|----------|
| 9 | > | ~ | GRAY/RED | |
| 8 | > | ~ | ORANGE/BLACK | |
| 7 | > | ~ | ORANGE/RED | σ |
| 6 | > | ~ | GREEN/BLACK | Open end |
| 5 | · | ~ | GREEN/RED | ben |
| 4 | > | ~ | PINK/BLACK | 0 |
| 3 | > | ~ | PINK/RED | |
| 2 | > | ~ | BLUE/BLACK | |
| 1 | > | ~ | BLUE/RED | |



Technical data

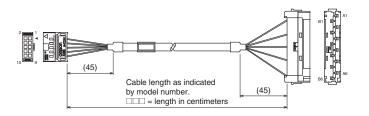
| Control line | AWG26/0.14 mm ² , tin-plated copper |
|------------------------------------|--|
| Diameter cable | 7.6 mm |
| Operating voltage | 60 VDC |
| Continuous current per signal wire | 0.5 A |
| Max. total current | 1.0 A |
| Test voltage | 0.5 KV, 50 Hz, 1 min |
| Operating temperature range | -20°C to +50°C |

P2RV-A C-OMR GRT1 P2RV-A CIC-OMR GRT1

List of Models

| I/O | Model number | Cable length | Interface unit | PLC interface | Connectors |
|--------|----------------------|------------------|----------------|------------------------------|------------------------|
| Output | P2RV-A050C-OMR GRT1 | 0.5 m | P2RVC-8-O-F | slice I/O module | XW7E 12pole - MIL10 |
| | P2RV-A100C-OMR GRT1 | 1.0 m | | GRT1 Series GRT1-OD8(G)-1 | |
| Input | P2RV-A050IC-OMR GRT1 | slice I/O module | | | |
| | P2RV-A100IC-OMR GRT1 | 1.0 m | | GRT1 Series GRT1-ID9(G)-1 | |





10 pole IDC mounting to P2RVC-8--F

| P2RV-A | GRT1 |
|--------|------|
| | |

| 1 A 1 | 1 > |
|------------------------|---------|
| 2 B 1 | |
| 3 A 2 | 3 > B4 |
| 4 > B2 | 4 > A4 |
| 5 > A4 | 5 > |
| 6 > B4 | 6 > A3 |
| 7 > | 7 > |
| 8 > | 8 > A1 |
| 9 🔆 NC | 9 > |
| 10 > < B6 | 10 : NC |
| | |

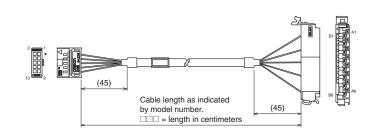
P2RV-A

P2RV-A C-OMR NX P2RV-A CIC-OMR NX

List of Models

| I/O | Model number | Cable length | Interface unit | PLC interface | Connectors |
|--------|----------------------|--------------|----------------|---------------|--------------|
| Output | P2RV-A050C-OMR GRT1 | 0.5 m | P2RVC-8-O-F | | XW7F 16pole- |
| | P2RV-A100C-OMR GRT1 | 1.0 m | | | MIL10 |
| Input | P2RV-A050IC-OMR GRT1 | 0.5 m | P2RVC-8-I-F | Series | |
| | P2RV-A100IC-OMR GRT1 | 1.0 m | | | |





10 pole IDC mounting to P2RVC-8--F

| P2RV-A | P2RV-A |
|-------------------|------------------|
| 1 > < A1 | 1 > B7 |
| 2 > | 2 > A7 |
| 3 > A3 | 3 > B5 |
| 4 > | 4 > A5 |
| 5 > A5 | 5 > B3 |
| 6 > | 6 > A3 |
| 7 > A7 | 7 > |
| 8 > B7 | 8 > A1 |
| 9 🔆 NC | 9 > B8 |
| 10 > B8 | 10 : NC |

Cables to connect Siemens S7/300 or S7/400 to 4 × P2RVC-8-□-F

List of Models

| Model number | Cable length | PLC type | Configuration | | | | | |
|----------------------|--------------|----------------------------|---------------|--|--|--|--|--|
| P2RV-200C-SIM S7/300 | 2.0 m | Siemens S7/300 4x1 Byte | | | | | | |
| P2RV-250C-SIM S7/300 | 2.5 m | | 3 1 1 | | | | | |
| P2RV-300C-SIM S7/300 | 3.0 m | | | | | | | |
| P2RV-500C-SIM S7/300 | 5.0 m | | A. | | | | | |
| P2RV-200C-SIM S7/400 | 2.0 m | Siemens S7/400 4x1 Byte | | | | | | |
| P2RV-250C-SIM S7/400 | 2.5 m | | | | | | | |
| P2RV-300C-SIM S7/400 | 3.0 m | | | | | | | |
| P2RV-500C-SIM S7/400 | 5.0 m | | - | | | | | |

Single Relays for Maintenance

Model Number Legend



- 1. Number of Poles 1 pole 1:
- 2. Terminals S: Plug-In
- 3. Relay LED Blank: Without LED

List of Models

| Model number | Replacement for |
|--------------------|-----------------------------|
| G2RV-1-S 11 VDC | G2RV-SL700/500 12 VDC |
| G2RV-1-S 21 VDC | G2RV-SL700/500 24 VDC |
| | G2RV-SL700/500 24 VAC/DC |
| G2RV-1-S 48 VDC | G2RV-SL700/500 48 VAC/DC |
| | G2RV-SL700/500 110 VAC |
| | G2RV-SL700/500 230 VAC |
| G2RV-1-S-AP 11 VDC | G2RV-SL700/500-AP 12 VDC |
| G2RV-1-S-AP 21 VDC | G2RV-SL700/500-AP 24 VDC |
| | G2RV-SL700/500-AP 24 VAC/DC |
| G2RV-1-S-AP 48 VDC | G2RV-SL700/500-AP 48 VAC/DC |
| | G2RV-SL700/500-AP 110 VAC |
| | G2RV-SL700/500-AP 230 VAC |
| G2RV-1-SI 21 VDC | G2RV-SL701/501 24 VDC |
| | G2RV-SL701/501 24 VAC/DC |

Cross bars

Model Number Legend

1. Number of Poles 020: 2 poles 030: 3 poles 040: 4 poles 100: 10 poles 200: 20 poles

List of Models Model number

P2RVM-020

P2RVM-030

P2RVM-040

P2RVM-100

P2RVM-200

2. Color R: Red S: Blue B: Black



Specification

| Max current (EN60947-7-1 section 8.3.3 / 1991) | 32 A |
|--|---------|
| Max. Voltage | 400 VAC |
| Max. Voltage | 250 VAC |
| when cutting Cross-bar without using separation plate or end-bracket | |

20 □ select color: R = Red, S=Blue, B=Black

2

3

4

10

Poles

Plastic Labels for G2RV Sockets

Color

Red (R)

Blue (S) Black (B)

| Model number | Box quantity | Color |
|-----------------|--------------------------------|-------|
| R99-15 for G2RV | 1 piece = 1 sheet = 120 labels | White |



G2RV-1-S



4. Relay Test switch

5. Contact Material

Blank: AgSnIn

6. Rated Coil Voltage

1:

Blank: No test switch

Test switch

AP: AgSnIn hard gold-plated

11 VDC, 21 VDC, 48 VDC

G2RV-1-SI



■ Labels (Stickers) for G2RV Sockets

| Model number | Box quantity | Color |
|-----------------|--|-------|
| R99-16 for G2RV | 1 piece = 1 sheet = 484 labels (stickers) | White |

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Separating Plates

| Model number | Description |
|--------------|--|
| | Provides isolation between adjacent relays to achieve 400 V isolation. |



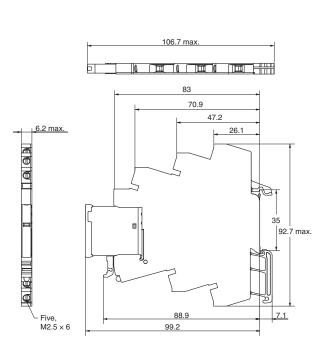
Dimensions

Note: All units are in millimeters unless otherwise indicated.

Complete Unit

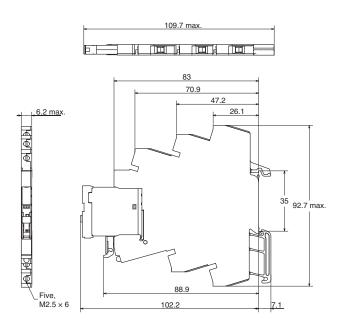
G2RV-SL700 G2RV-SL700-AP

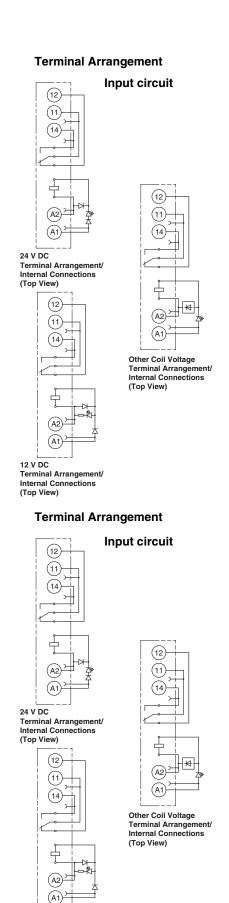
Dimensions



G2RV-SL701

Dimensions





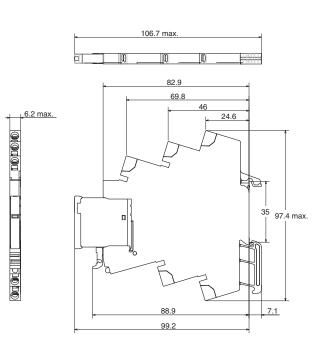
12 V DC

Terminal Arrangement/ Internal Connections (Top View)

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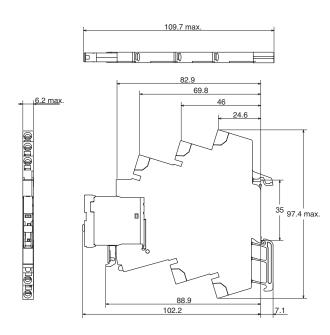
G2RV-SL500 G2RV-SL500-AP

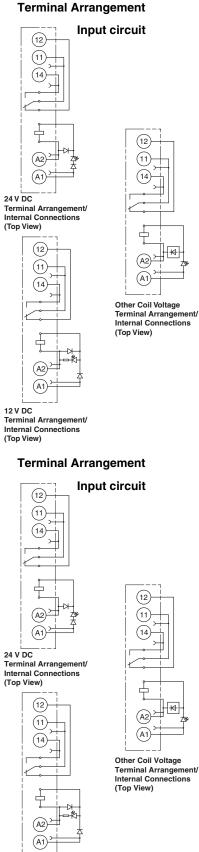
Dimensions

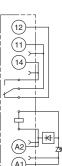


G2RV-SL501

Dimensions





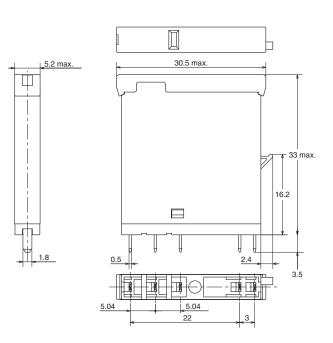


Other Coil Voltage Terminal Arrangement/ Internal Connections (Top View)

12 V DC Terminal Arrangement/ Internal Connections

(Top View)

<u>Single Relay</u> G2RV-1-S G2RV-1-S-AP

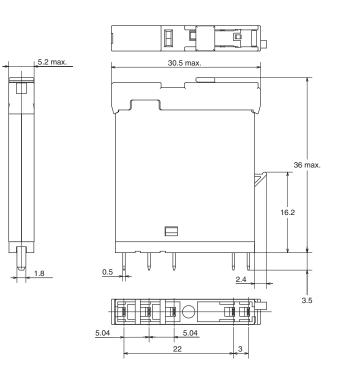


Input circuit



(Bottom View)

G2RV-1-SI



Input circuit



Terminal Arrangement/ Internal Connections (Bottom View)

Installation

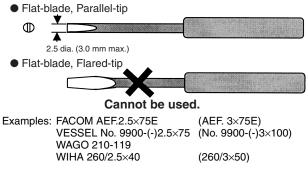
■ Tools

G2RV-SL70 series: Flat-Blade screwdriver should be used for mounting and / or releasing cables.

G2RV-SL50 series: Flat-Blade screwdriver should be used for mounting stranded wires without ferrules and / or releasing cables.

Applicable Screwdriver

• Flat-blade, Parallel-tip, 2.5 mm diameter (3.0 mm max.)



*Chamfering the tip of the driver improves insertion when used as an exclusive tool.

P2RVC-8-O-F (for G2RV-SL70 series only)

List of Models

| Model number | Description | Connection |
|--------------|--|---|
| P2RVC-8-O-F | PLC Output Interface for 8x G2RV-SL70□-series PNP - type | Ribbon cable connector 10 Pole, IEC603/1 |

■ Applicable Wires

Applicable Wire Sizes

G2RV-SL700 Series

Box clamp technology

| Wire type | Applicable wire size | Stripping length |
|---|---------------------------|------------------|
| Stranded without ferrules | 0.5 - 2.5 mm² | 7 mm |
| Stranded with ferrules and plastic collar | 0.5 - 2.5 mm ² | 7 mm |
| Stranded with ferrules without plastic collar | 0.5 - 2.5 mm ² | 7 mm |
| Solid | 0.5 - 2.5 mm² | 7 mm |

G2RV-SL500 Series

Push-in technology

| Wire type | Applicable wire size | Stripping length |
|---|---------------------------|------------------|
| Stranded without ferrules | 0.5 - 2.5 mm² | 12 mm |
| Stranded with ferrules and plastic collar | 0.5 - 2.5 mm ² | 12 mm |
| Stranded with ferrules without plastic collar | 0.5 - 2.5 mm ² | 12 mm |
| Solid | 0.5 - 2.5 mm ² | 12 mm |

Wiring

Use wires of the applicable sizes specified above. The length of the exposed conductor should be 7 mm for a G2RV-SL700 series, 12 mm for a G2RV-SL500 series.

G2RV-SL700

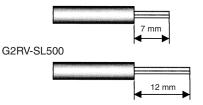
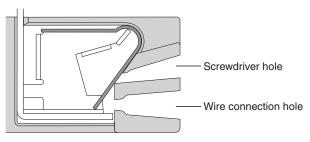
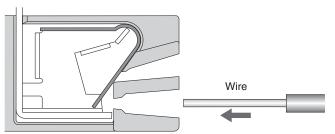


Fig. 1 Exposed Conductor Length

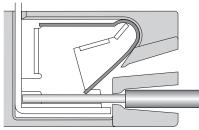
Wiring Procedure for G2RV-SL500 series





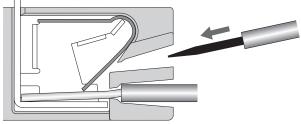


Insert the exposed conductor into the connection hole.

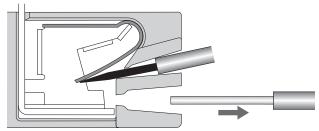


No other tools are required.

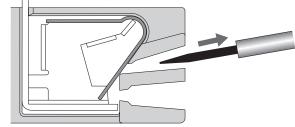
Note: In case of wiring stranded wires without ferrules screwdriver should be inserted before inserting the wire. Screwdriver should be removed after fully insertion of the wire. Removing



Insert the specified screwdriver into the release hole.



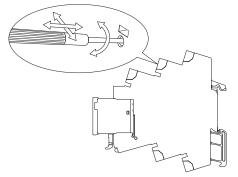
Removing wire.



Removing screwdriver.

Precautions for Connection

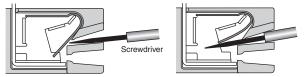
- Do not move the screwdriver up, down, or from side to side while it is inserted in the hole. Doing so may cause damage to internal components (e.g., deformation of the clamp spring or cracks in the housing) or cause deterioration of insulation.
- Do not insert the screwdriver at an angle. Doing so may break the side of socket and result in a short-circuit.



 Do not insert two or more wires in the hole. Wires may come in contact with the spring causing a temperature rise or be subject to sparks.



• Insert the screwdriver along the hole wall as shown below.



- If lubricating liquid, such as oil, is present on the tip of screwdriver, the screwdriver may fall out resulting in injury to the operator.
- Insert the screwdriver into the bottom of the hole. It may not be possible to connect cables properly if the screwdriver is inserted incorrectly.

General Precautions

- Do not use the product if it has been dropped on the ground. Dropping the product may adversely affect performance.
- Confirm that the socket is securely attached to the mounting track before wiring. If the socket is mounted insecurely it may fall and injure the operator.
- Ensure that the socket is not charged during wiring and maintenance. Not doing so may result in electric shock.

- Do not pour water or cleansing agents on the product. Doing so may result in electric shock.
- Do not use the socket in locations subject to solvents or alkaline chemicals.
- Do not use the socket in locations subject to ultraviolet light (e.g., direct sunlight). Doing so may result in markings fading, rust, corrosion, or resin deterioration.
- Do not dispose the product in fire.

Removing from Mounting Rail

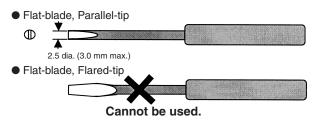
To remove the socket from the mounting rail, insert the tip of screwdriver in the fixture rail, and move it in the direction shown below.



Precaution for Operation of Test switch

■ Tool: G2RV-SL701/501 series: 2.5 mm width Flat-Blade screwdriver should be used for operation of test switch.

• Flat-blade, Parallel-tip, 2.5 mm diameter (3.0 mm max.)



■ Cautions:

- When you operate a test switch, please turn off electrical power supply.
- After you have finished to operate a test switch, return the test switch to its original state
- Do not use test switch as a switch.
- Durability of test switch operation is more than 100 times.
- Please avoid to use the latching lever by ON state with carry current in long time, more than 24 hours to maintain the initial performance for operation checking.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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- 1. Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Prices: Payment Terms, All prices stated are current, subject to change without notice by Omron. Omron reserves the right to increase or decrease prices on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice. Discounts, Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms and (ii) Buyer has no past due amounts.
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 - constitute delivery to Buyer; c. All sales and shipments of Products shall be FOB shipping point (unless oth-
- c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
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 e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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- portation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
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