

Реле Omron G2RV, Минск Т.80447584780

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OMRON
ELECTRONIC COMPONENTS

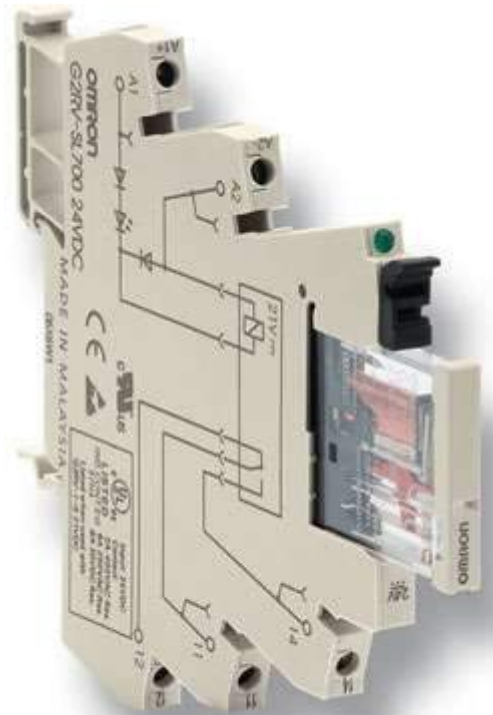
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G2RV-1-S DC21, Реле

Реле Omron G2RV

OMRON G2RV - надежное реле которое позволяет снизить стоимость системы управления



Надежные и очень компактные реле G2RV шириной 6 мм позволяют существенно сэкономить пространство внутри шкафа. Реле имеют светодиодную и механическую индикацию состояния. Корпус реле выполнен из прозрачного пластика, что так же позволяет видеть состояние реле. В линейке промежуточных реле G2RG имеются модели с позолоченными контактами. Такие реле позволяют коммутировать аналоговые сигналы без потерь. При замене реле жесткие контактные выводы не гнутся. Они остаются прямыми и ровными. Это обеспечивает надежное электрическое соединение между монтажной колодкой и реле. Реле идеально стыкуются программируемыми логическими контроллерами. Они отвечают самым разнообразным требованиям конструкторов и разработчиков, а так же производителей шкафов управления. Малый размер корпуса реле G2RV позволяет в итоге заметно снизить размер самого щита управления, что безусловно в итоге влияет на уменьшение стоимости изделия.

ОСОБЕННОСТИ:

- ▶ Ширина корпуса 6 мм
- ▶ Несгибаемые выводы
- ▶ Для простого подключения цепей безвинтовые клеммы типа «push-in» и дополнительные принадлежности

Информация для заказа реле Omron G2RV

| | |
|----------------------|--|
| G2RV-1-S DC11 | Промежуточное реле Omron G2RV1SDC11BYOMB номинальный ток 6 А контакты, for replacement in G2RV-SL*00 12DC |
| G2RV-1-S DC21 | Промежуточное реле Omron G2RV1SDC21BYOMB номинальный ток 6 А контакты, для замены в G2RV-SL*00 24 VDC or 24 VAC/DC |

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| | |
|---------------------------|--|
| G2RV-1-S DC48 | Промежуточное реле Omron G2RV1SDC48BYOMB номинальный ток 6 А контакты, для замены в G2RV-SL*00 48 VAC/DC, 110 VAC, 230 VAC |
| G2RV-SL500 AC110 | Промежуточное реле Omron G2RVSL500AC110BYOMB номинальный ток 6А, безвинтовые клеммы, катушка 110 VAC |
| G2RV-SL500 AC230 | Промежуточное реле Omron G2RVSL500AC230BYOMB номинальный ток 6А, безвинтовые клеммы, катушка 230 VAC |
| G2RV-SL500 AC/DC24 | Промежуточное реле Omron G2RVSL500ACDC24BYOMB номинальный ток 6А, безвинтовые клеммы, катушка 24 VAC/DC |
| G2RV-SL500 AC/DC48 | Промежуточное реле Omron G2RVSL500ACDC48BYOMB номинальный ток 6А, безвинтовые клеммы, катушка 48 VAC/DC |
| G2RV-SL500 DC12 | Промежуточное реле Omron G2RVSL500DC12BYOMB номинальный ток 6А, безвинтовые клеммы, катушка 12 VDC |
| G2RV-SL500 DC24 | Промежуточное реле Omron G2RVSL500DC24BYOMB номинальный ток 6А, безвинтовые клеммы, катушка 24 VDC |
| G2RV-SL700 AC110 | Промежуточное реле Omron G2RVSL700AC110BYOMB номинальный ток 6А, винтовые клеммы, катушка 110 VAC |
| G2RV-SL700 AC230 | Промежуточное реле Omron G2RVSL700AC230BYOMB номинальный ток 6А, винтовые клеммы, катушка 230 VAC |
| G2RV-SL700 AC/DC24 | Промежуточное реле Omron G2RVSL700ACDC24BYOMB номинальный ток 6А, винтовые клеммы, катушка 24 VAC/DC |
| G2RV-SL700 AC/DC48 | Промежуточное реле Omron G2RVSL700ACDC48BYOMB номинальный ток 6А, винтовые клеммы, катушка 48 VAC/DC |
| G2RV-SL700 DC12 | Промежуточное реле Omron G2RVSL700DC12BYOMB номинальный ток 6А, винтовые клеммы, катушка 12 VDC |
| G2RV-SL700 DC24 | Промежуточное реле Omron G2RVSL700DC24BYOMB номинальный ток 6А, винтовые клеммы, катушка 24 VDC |

Информация для заказа реле Omron G2RV с позолоченными контактами

| Код заказа | Описание | Код |
|------------------------------|---|--------|
| G2RV-SL500-AP AC/DC24 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, безвинтовые клеммы, управление 24 V AC/DC | 374441 |
| G2RV-SL500-AP AC/DC48 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, безвинтовые клеммы, управление 48 V AC/DC | 374442 |
| G2RV-SL500-AP AC110 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, безвинтовые клеммы, управление 110 V AC | 374448 |
| G2RV-SL500-AP AC230 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, безвинтовые клеммы, управление 230 V AC | 374443 |
| G2RV-SL500-AP DC12 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, безвинтовые клеммы, управление 12 V DC | 374439 |
| G2RV-SL500-AP DC24 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, безвинтовые клеммы, управление 24 V DC | 374440 |
| G2RV-SL700-AP AC/DC24 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, винтовые клеммы, управление 24 V AC/DC | 374436 |
| G2RV-SL700-AP AC/DC48 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с поколем, винтовые клеммы, управление 48 V AC/DC | 374437 |

| | | |
|----------------------------|--|--------|
| G2RV-SL700-AP AC110 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с цоколем, винтовые клеммы, управление 110 V AC | 374447 |
| G2RV-SL700-AP AC230 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с цоколем, винтовые клеммы, управление 230 V AC | 374438 |
| G2RV-SL700-AP DC12 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с цоколем, винтовые клеммы, управление 12 V DC | 374434 |
| G2RV-SL700-AP DC24 | Интерфейсное реле Omron G2RV шириной 6 мм , входное, с цоколем, винтовые клеммы, управление 24 V DC | 374435 |

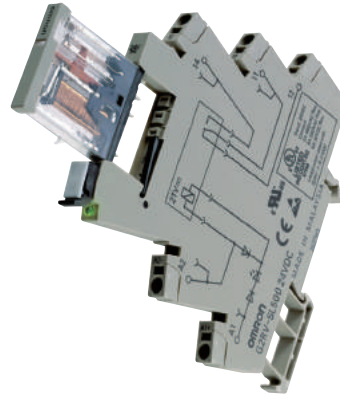
Аксессуары для реле Omron G2RV

| | | |
|-----------|--------------------|--|
| P2RVC8OF | P2RVC-8-O-F | Релейный блок, 8 реле G2RV-SL700, соединение с ПЛК |
| P2RVM020B | P2RVM-020B | Мостик д/реле G2RV, на 2 группы, черный |
| P2RVM020R | P2RVM-020R | соединительные мостики для цоколя реле G2RV, красный, 2 контакта |
| P2RVM020S | P2RVM-020S | соединительные мостики для цоколя реле G2RV, синий, 2 контакта |
| P2RVM030B | P2RVM-030B | соединительные мостики для цоколя реле G2RV, черный, 3 контакта |
| P2RVM030R | P2RVM-030R | соединительные мостики для цоколя реле G2RV, красный, 3 контакта |
| P2RVM030S | P2RVM-030S | соединительные мостики для цоколя реле G2RV, синий, 3 контакта |
| P2RVM040B | P2RVM-040B | соединительные мостики для цоколя реле G2RV, черный, 4 контакта |
| P2RVM040R | P2RVM-040R | соединительные мостики для цоколя реле G2RV, красный, 4 контакта |
| P2RVM040S | P2RVM-040S | соединительные мостики для цоколя реле G2RV, синий, 4 контакта |
| P2RVM100B | P2RVM-100B | Мостик д/реле G2RV, на 10 групп, черный |
| P2RVM100R | P2RVM-100R | Мостик-перемычка, 10 конт.гр., красный |
| P2RVM100S | P2RVM-100S | Мостик-перемычка |
| P2RVM200B | P2RVM-200B | Мостик-перемычка, 20 конт.гр., черный |
| P2RVM200R | P2RVM-200R | Мостик-перемычка, 20 конт.гр., красный |
| P2RVM200S | P2RVM-200S | Мостик-перемычка, 20 конт.гр., синий |
| P2RVS | P2RV-S | Разделительная пластина, на DIN, для реле G2RV/G3RV |

Slim Relay G2RV

The World's First Industrial Slim Relay

- Large plug-in terminals for reliable connection.
- LED indicator and mechanical flag to check operation.
- Special input type with gold plated contacts.
- Transparent housing enables checking relay condition.
- Slim outline to save space.
- Push-in terminals and accessories for easy wiring.



Model Number Structure

Model Number Legend

G2RV-SL - -

1 2 3 4 5 6

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.

4. Relay Pushbutton

0: Without pushbutton

5. Contact form

- AP: Input type
- Blank: Standard type

6. Input Voltage

Ordering Information

List of Models

| Classification | | Enclosure rating | Input voltage | Type of connection | Contact form (SPDT) | |
|-------------------|-----------------|------------------|---------------|--------------------|---------------------|---------------|
| | | | | | Standard type | Input type |
| Plug-in terminals | General-purpose | Unsealed | AC/DC | Screw terminals | G2RV-SL700 | G2RV-SL700-AP |
| | | | | Push-in terminals | G2RV-SL500 | G2RV-SL500-AP |

Relay and Socket Combinations

| Input voltage | Standard type | | Input 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 VAC |
| 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 |

Specifications

Input Ratings

| Rated voltage | Rated current ^{*1} | | | Must operate voltage | Must release voltage | Power consumption | | Input voltage |
|---------------|-----------------------------|---------|---------|----------------------|----------------------|--------------------|-----------------|-----------------|
| | AC | | DC | | | % of rated voltage | AC (VA) Approx. | DC (mW) Approx. |
| | 50 Hz | 60 Hz | | | | | | |
| 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 (G2RV-SL500, 700) | | Input type (G2RV-SL500, 700-AP) ^{*2} |
|--|----------------------------------|---|---|
| Number of poles | 1 pole | | |
| Load | Resistive load (cosφ = 1) | Inductive load (cosφ = 0.4, L/R = 7 ms) | Resistive load (cosφ = 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} | 10mA at 5 VDC (P level) | | 1 mA at 100 mVDC (P level) |

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

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

Characteristics

| Item | SPDT | |
|--------------------------|--|--|
| | Standard type | Input type |
| Contact resistance | 100 mΩ max. | |
| Operate (set) time | 20 ms max. | |
| Release time | 40 ms max. | |
| Max. operating frequency | 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 contacts*; 1,000 VAC, 50/60 Hz for 1 min between contacts of 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 when 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 condensation) | |
| Ambient humidity | Operating: 5% to 85% | |
| Weight | Approx. 35 g | |
| Overvoltage category | III | |
| 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)

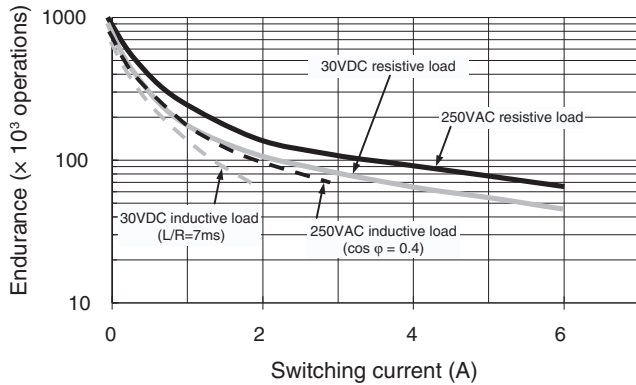
| Model | Contact form | Coil ratings | Contact ratings | Operations |
|----------------|--------------|-------------------------------|---|------------|
| G2RV-SL Series | SPDT | 12 to 48 VDC 24 to 230 VAC | 250 VAC 6 A (Resistive Load) 30 VDC 6 A (Resistive Load) 400 VAC 2 A (Resistive Load) | 6,000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

IEC/VDE (EN 61810)

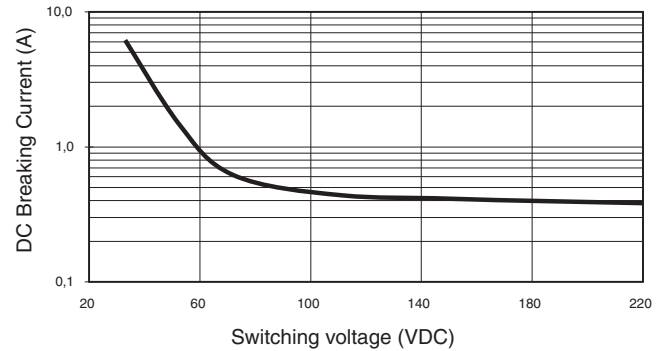
| Contact form | Coil ratings | Contact ratings | Operations |
|--------------|---|---|---------------------------|
| SPDT | 12, 24 VDC 24, 48 VAC/DC 110, 230 VAC | 250 VAC 6 A (Resistive Load) 30 VDC 6 A (Resistive Load) 400 VAC 2 A (Resistive Load) | 50,000 50,000 6,000 |

Engineering Data

■ Endurance



Switching capacity of DC resistive load



Typical Operating and Release Time

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

Accessories

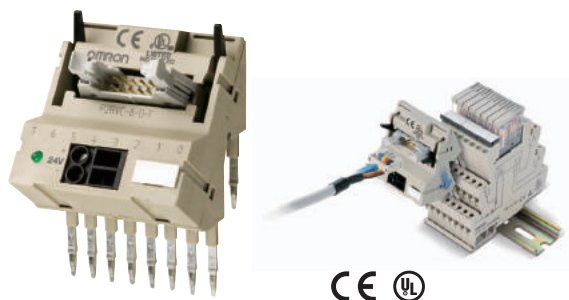
■ PLC Interface P2RVC-8-□-F

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

P2RVC-8-O-F (for G2RV-SL700 series only)

List of Models

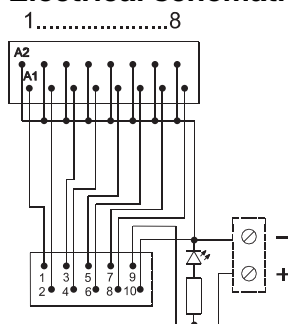
| Model number | Description | Connection |
|--------------|--|--|
| P2RVC-8-O-F | PLC Output Interface for 8x G2RV-SL700-series PNP - type | Ribbon cable connector 10 Pole, IEC603/1 |



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 |

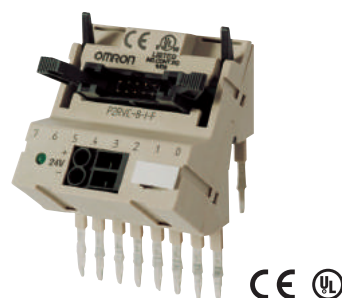
Electrical schematic P2RVC-8-O-F



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

List of Models

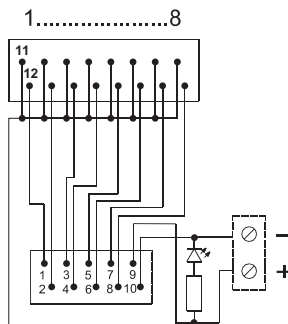
| Model number | Description | Connection |
|--------------|--|--|
| P2RVC-8-I-F | PLC Output Interface for 8x G2RV-SL700-series PNP - type | Ribbon cable connector 10 Pole, IEC603/1 |



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-□□□C

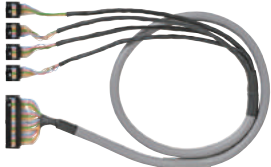
P2RV-4-□□□IMC

P2RV-4-□□□IFC

Cable to connect CJ1 to 4 × P2RVC-8-□-F

List of Models

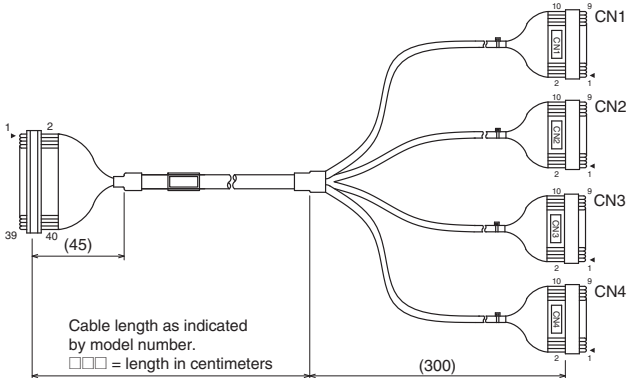
| I/O | Model number | Cable length | Interface unit | PLC Connection | Connectors |
|--------|---------------|--------------|--------------------|-------------------------------------|----------------------|
| Output | P2RV-4-100C | 1.0 m | P2RVC-8-O-F × 4 | OMRON PLC CJ1 Series: MIL | MIL40 - MIL10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



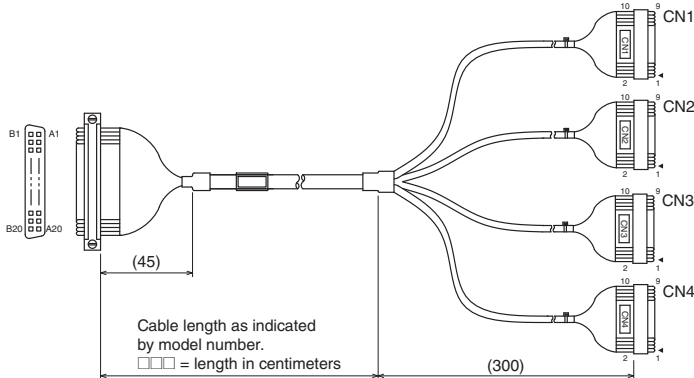
P2RV-4-□□□C/P2RV-4-□□□IMC



P2RV-4-□□□IFC



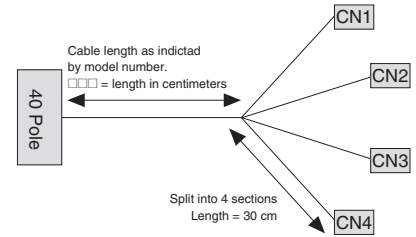
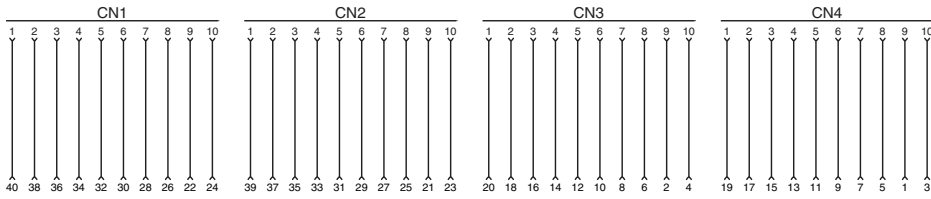
P2RV-4-□□□C/P2RV-4-□□□IMC



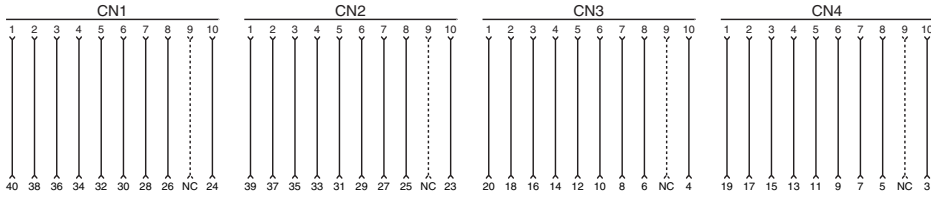
P2RV-4-□□□IFC

4 x 10 pole IDC mounting to 4 x P2RVC-8-□-F

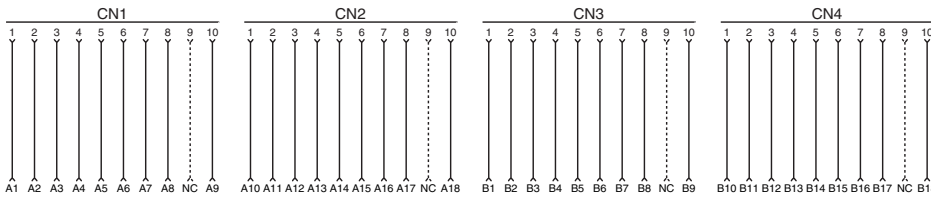
P2RV-4-□□□C



P2RV-4-□□□IMC



P2RV-4-□□□IFC



40 pole IDC mounting to Omron PLC CJ1-OD232

Technical data

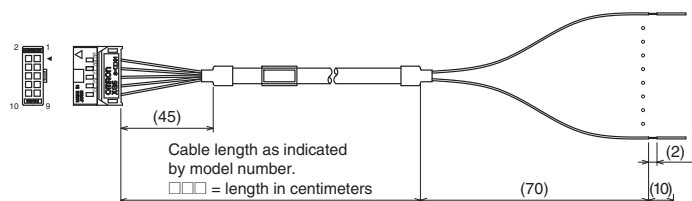
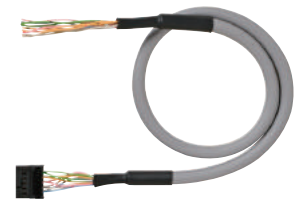
| | |
|------------------------------------|--|
| Control line | AWG28/0.08 mm ² , tin-plated copper |
| Diameter cable | 10.7 mm (one end splits into 4 sections: A, B, C, D) |
| Operating voltage | 60 VDC |
| Continuous current per signal wire | 0.5 A |
| Max. total current, 4 bytes, each | 1.0 A |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

P2RV-A□□□C

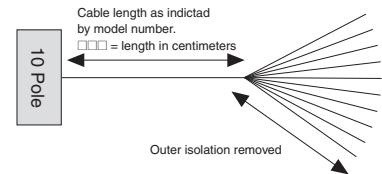
Cable, single sided 10 pole IDC connector, to connect to P2RVC-8-□-F

List of Models

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



10 pole IDC mounting to P2RVC-8-□-F



Technical data

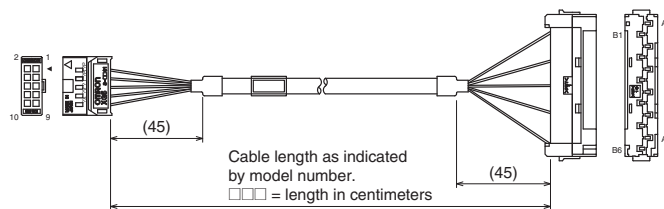
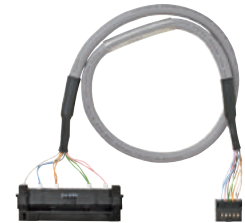
| | |
|------------------------------------|--|
| Control line | AWG26/0.14 mm ² , tin-plated copper |
| Diameter cable | 7.6 mm |
| Operating voltage | 60 VDC |
| Continuous current per signal wire | 0.5 A |
| Max. total current | 1.0 A |
| Test voltage | 0.5 KV, 50 Hz, 1 min |
| Operating temperature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

P2RV-A□□□C-OMR GRT1

P2RV-A□□□IC-OMR GRT1

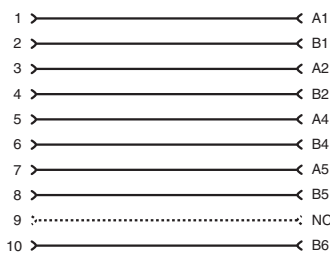
List of Models

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

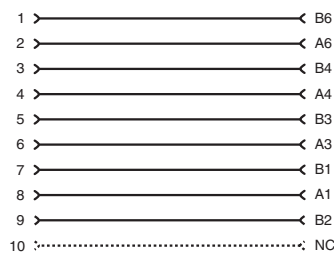


10 pole IDC mounting to P2RVC-8-□-F

P2RV-A□□□C-OMR GRT1



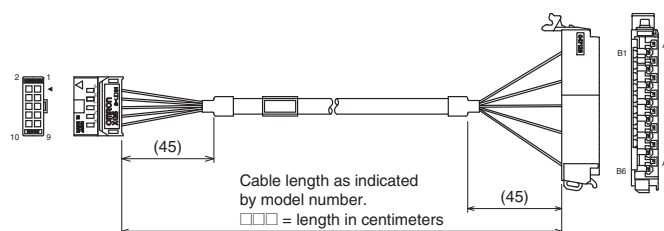
P2RV-A□□□IC-OMR GRT1



P2RV-A□□□C-OMR NX
P2RV-A□□□IC-OMR NX

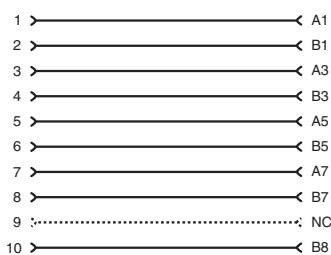
List of Models

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

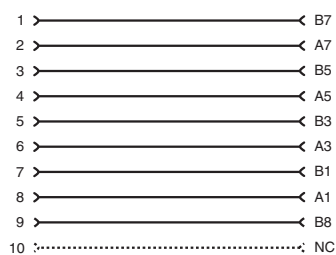


10 pole IDC mounting to P2RVC-8-□-F

P2RV-A□□□C-OMR NX



P2RV-A□□□IC-OMR NX



P2RV-□□□C-SIM S7/□00

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 | | |
| P2RV-300C-SIM S7/300 | 3.0 m | | |
| P2RV-500C-SIM S7/300 | 5.0 m | | |
| 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

G2RV-□ - □□□□ - □-□
 1 2 3 4 5 6

1. Number of Poles

1: 1 pole

2. Terminals

S: Plug-In

3. Relay LED

Blank: Without LED

4. Relay Pushbutton

Blank: Without pushbutton

5. Contact Material

Blank: AgSnIn

AP: AgSnIn hard gold-plated

6. Rated Coil Voltage

11 VDC, 21 VDC, and 48 VDC

List of Models

| Model number | Replacement for |
|------------------|---------------------------|
| G2RV-1-S DC11 | G2RV-SL7□□/5□□ DC12 |
| G2RV-1-S DC21 | G2RV-SL7□□/5□□ DC24 |
| | G2RV-SL7□□/5□□ AC/DC24 |
| G2RV-1-S DC48 | G2RV-SL7□□/5□□ AC/DC48 |
| | G2RV-SL7□□/5□□ AC110 |
| | G2RV-SL7□□/5□□ AC230 |
| G2RV-1-S-AP DC11 | G2RV-SL7□□/5□□-AP DC12 |
| G2RV-1-S-AP DC21 | G2RV-SL7□□/5□□-AP DC24 |
| | G2RV-SL7□□/5□□-AP AC/DC24 |
| G2RV-1-S-AP DC48 | G2RV-SL7□□/5□□-AP AC/DC48 |
| | G2RV-SL7□□/5□□-AP AC110 |
| | G2RV-SL7□□/5□□-AP AC230 |



Cross bars

Model Number Legend

P2RVM - □ □
 1 2

1. Number of Poles

020: 2 poles
 030: 3 poles
 040: 4 poles
 100: 10 poles
 200: 20 poles

2. Color

R: Red
 S: Blue
 B: Black



List of Models

| Model number | Poles | Color |
|--------------|-------|----------------------------------|
| P2RVM-020□ | 2 | Red (R) Blue (S) Black (B) |
| P2RVM-030□ | 3 | |
| P2RVM-040□ | 4 | |
| P2RVM-100□ | 10 | |
| P2RVM-200□ | 20 | |

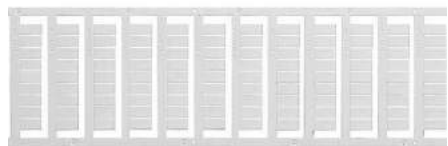
□ select color: R = Red, S=Blue, B=Black

Specification

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

Plastic Labels for G2RV Sockets

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



Labels (Stickers) for G2RV Sockets

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



Separating Plates

| Model number | Description |
|--------------|--|
| P2RV-S | Provides isolation between adjacent relays to achieve 400 V isolation. |

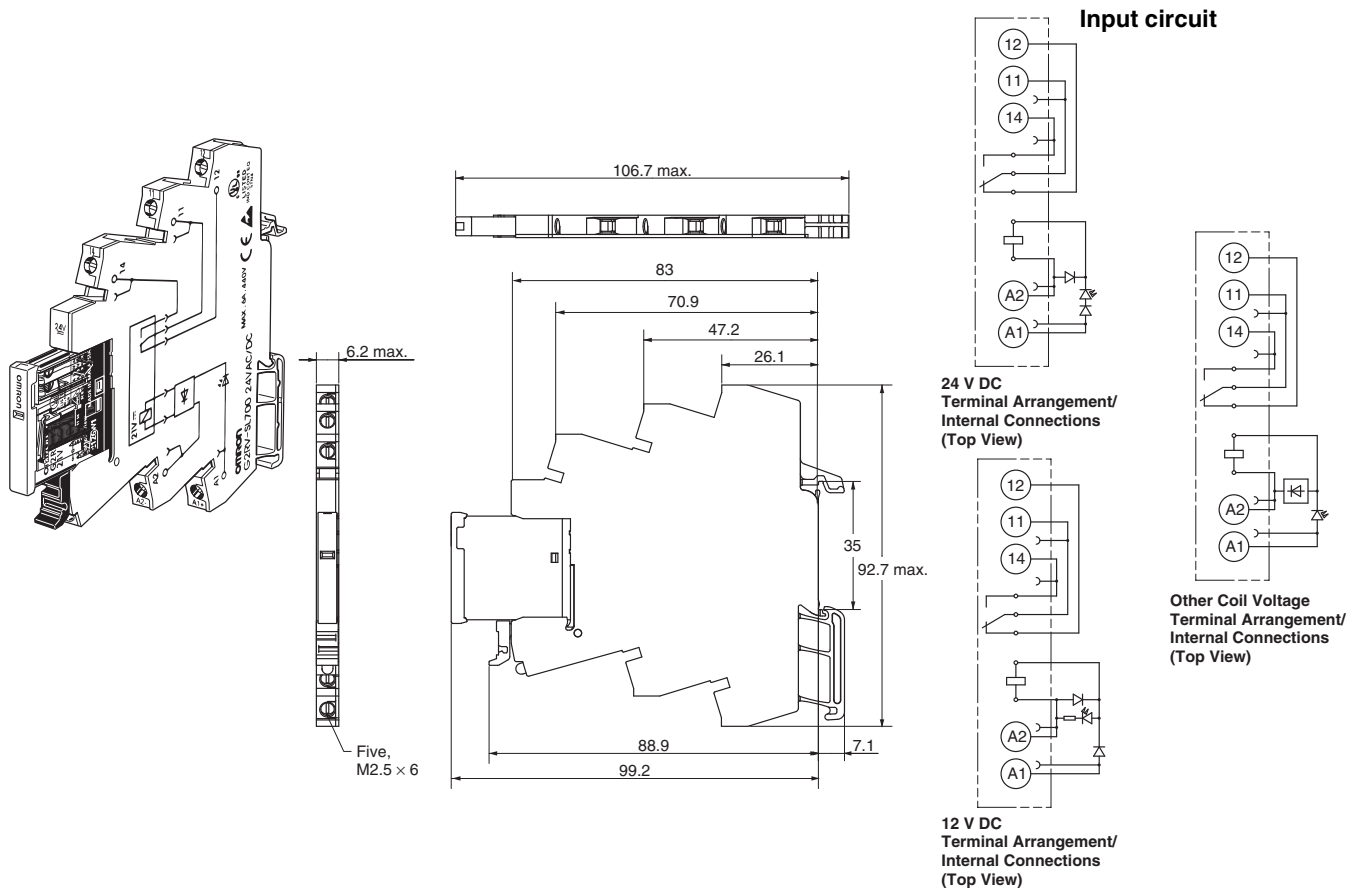


Dimensions

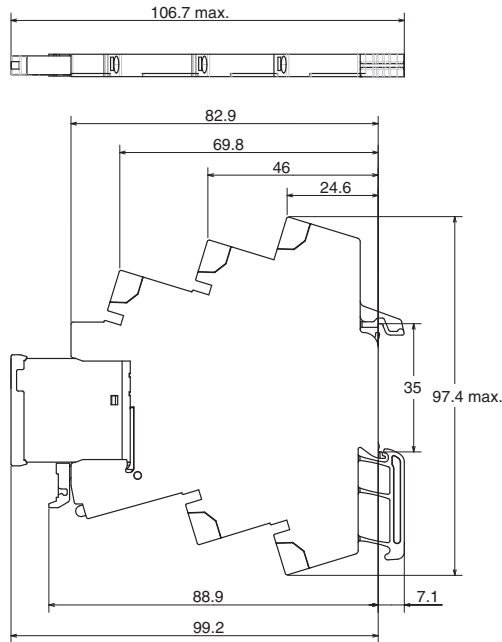
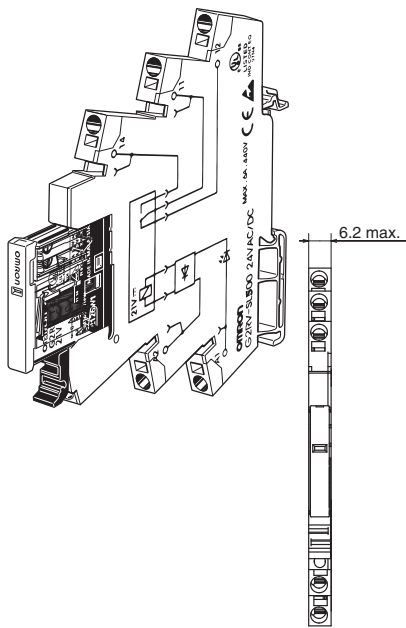
Note: All units are in millimeters unless otherwise indicated.

Complete Unit

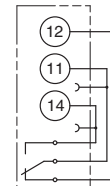
G2RV-SL700
G2RV-SL700-AP



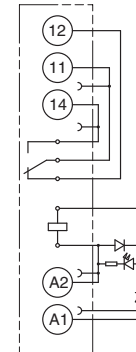
**G2RV-SL500
G2RV-SL500-AP**



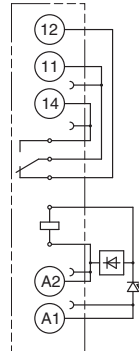
Input circuit



**24 V DC
Terminal Arrangement/
Internal Connections
(Top View)**



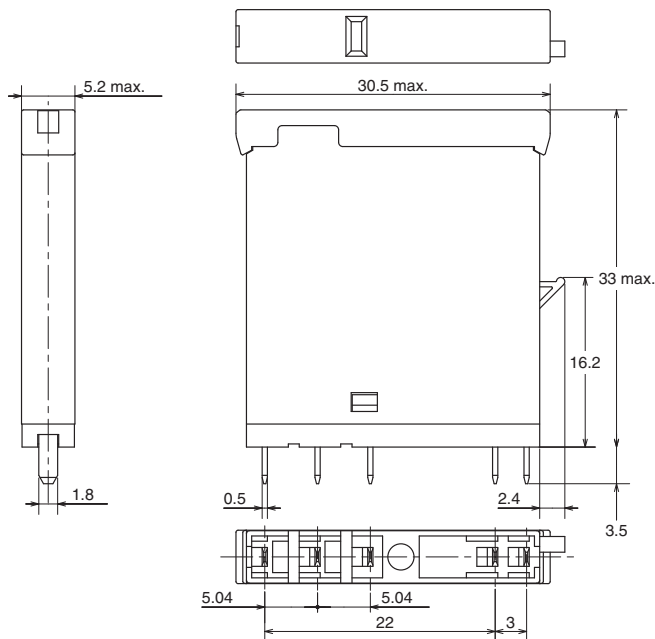
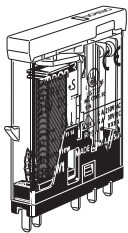
**12 V DC
Terminal Arrangement/
Internal Connections**



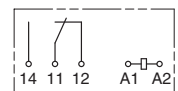
**Other Coil Voltage
Terminal Arrangement/
Internal Connections
(Top View)**

Single Relay

**G2RV-1-S
G2RV-1-S-AP**



Input circuit



**Terminal Arrangement/
Internal Connections
(Bottom View)**

Installation

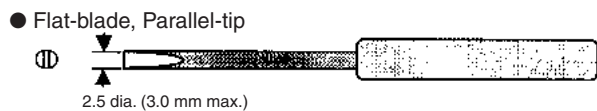
■ Tools

G2RV-SL700 series: Flat-Blade screwdriver should be used for mounting and / or releasing cables.

G2RV-SL500 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.)



Cannot be used.

- Examples: FACOM AEF.2.5×75E (AEF. 3×75E)
 VESSEL No. 9900(-)2.5×75 (No. 9900(-)3×100)
 WAGO 210-119
 WIHA 260/2.5×40 (260/3×50)

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

■ 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 mm ² | 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 mm ² | 7 mm |

G2RV-SL500 Series

Push-in technology

| Wire type | Applicable wire size | Stripping length |
|---|---------------------------|------------------|
| Stranded without ferrules | 0.5 - 2.5 mm ² | 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



G2RV-SL500

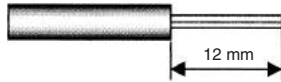
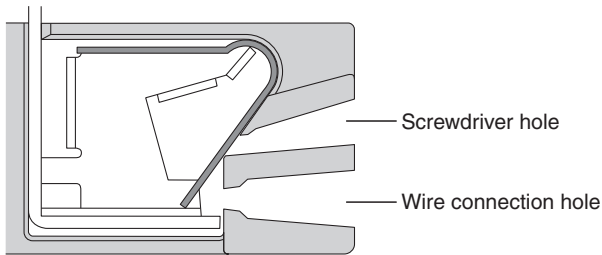
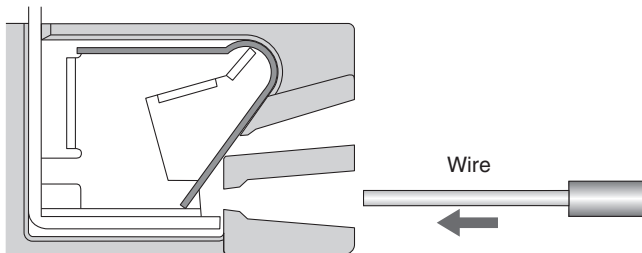


Fig. 1 Exposed Conductor Length

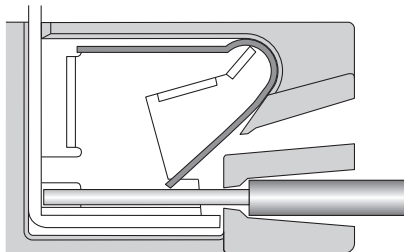
Wiring Procedure for G2RV-SL500 series



● Wiring



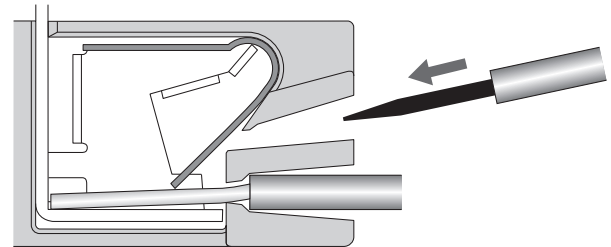
Insert the exposed conductor into the connection hole.



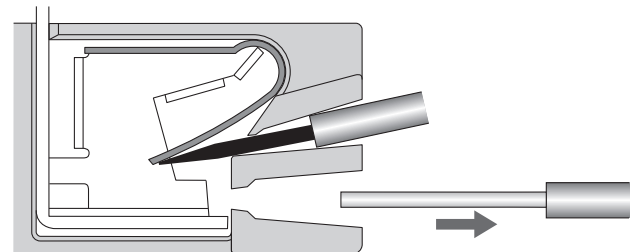
No other tools are required.

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.

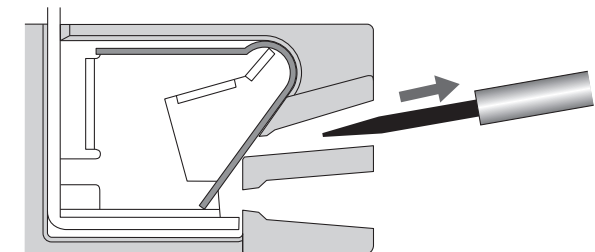
● Removing



Insert the specified screwdriver into the release hole.



Removing wire.

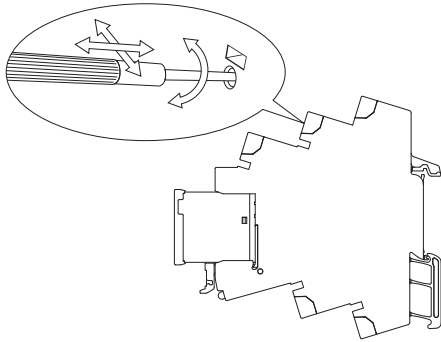


Removing screwdriver.

Precautions

Precautions for Connection

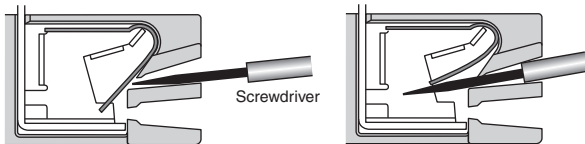
- Do not move the screwdriver up, down, or from side to side while it is inserted in the hole. Doing so may cause damage to internal components (e.g., deformation of the clamp spring or cracks in the housing) or cause deterioration of insulation.
- Do not insert the screwdriver at an angle. Doing so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



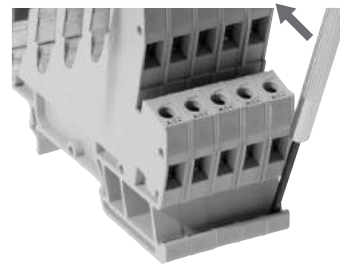
- If lubricating liquid, such as oil, is present on the tip of screwdriver, the screwdriver may fall out resulting in injury to the operator.
- Insert the screwdriver into the bottom of the hole. It may not be possible to connect cables properly if the screwdriver is inserted incorrectly.

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.



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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