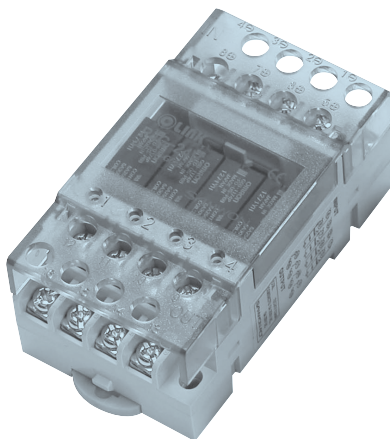


## R4G-24V/R4Q-24V

### User's Guide



Thank you for purchasing product of SAMWON ACT.

Please check model of product that you purchase first, and read this manual prior to use it.

#### • Caution for Safety

**⚠ Caution** Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly

**⚠ Warning** Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

#### **⚠ Caution**

1. Do Not use other voltage except appointed voltage. It may be the cause of fire or damage of equipment.
2. Use it within nominal voltage and current which are marked on load. It may be the cause of fire or damage of equipment.
3. Check COMMON polarity of using controller (PLC, etc) first, and then select proper product.  
It may be the cause of fire or damage of this equipment and user's.
4. Please make sure to check the internal wiring diagram of the relay board and the arrangement of the controller PIN (terminal) when wiring the relay board between the controller (PLC etc.).  
It may be the cause of malfunction or damage of this equipment and user's.

※ The connection cable for PLC of various makers is provided by us. Please refer to the catalogue or contact Head or branch office if you need more detail models and specifications.

#### **⚠ Warning**

1. Terminal wiring of power line and connector for signal after making sure to shut off power so as that it is prevented to be damaged or malfunctioned.
2. Read this user's guide which is attached to product, and check product's performance, specification, operation pattern, signal, and how to handle prior to use. Keep user's guide please.
3. When wiring the terminal block, please tighten it with the specified torque using the appropriate tool. If it is outside of this range torque, it may cause malfunction due to breakage or looseness of tightening surface terminal.
4. Use removal key which is supplemented for replacement.  
Using other tools may be the cause of damage of relay or relay socket.

## • Model Selection

| Model   | Installation Relay                | IO Point(s)        | Coil Rated voltage | Common                                   |   | Interface                     |         | Dimensions (W×Dmm) | Mounting method                      |
|---------|-----------------------------------|--------------------|--------------------|--|---|-------------------------------|---------|--------------------|--------------------------------------|
|         |                                   |                    |                    | Coil                                     | Contact                                 | Coil                          | Contact |                    |                                      |
| R4G-24V | OMRON<br>G6B-1174P-FD-US<br>24VDC | 4Point<br>(1a × 4) | 24V DC             | Individual Power<br>(4P Short bar built) | Individual Com.<br>(4P Short bar built) | Screw Terminal<br>8.5mm Pitch |         | 43.6 × 77.4        | Screw mounting<br>DIN Rail (Channel) |
| R4Q-24V | PANASONIC<br>PQ1a-24V             |                    |                    |  |   |                               |         |                    |                                      |

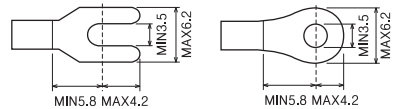
## • G6B/PQ Relay Specification

| Item  |   | G6B-1174P-FD-US-DC24V     | PQ1a-24V               |
|---|---|---------------------------|------------------------|
| Contact   | Arrangement                                 | SPST-NO (1a)              | 1a                     |
|   | Nominal switching capacity (resistive load) | 5A 250V AC / 5A 30V DC    | 5A 250V AC / 5A 30V DC |
|   | Max. switching current                      | 5A                        | 5A                     |
|   | Max. switching voltage                      | 380V AC / 125V DC         | 250V AC / 110V DC      |
| Coil  | Nominal voltage                             | 24V DC                    | 24V DC                 |
|   | Pick-up voltage                             | 70% max. of Rated voltage | 18.0V DC               |
|   | Drop-out voltage                            | 10% min. of Rated voltage | 1.2V DC                |
|   | Coil resistance                             | 2,880 Ω                   | 2,880 Ω                |
|   | Nominal operation power                     | Approx. 200mW             | 200mW                  |
| Impulse withstand voltage, between coil and contact |   | 6,000V                    | 8,000V                 |
| Initial breakdown voltage between contact and coil  |   | AC 3,000V 50/60Hz 1min    | 4,000V rms             |
| Country of origin                                   |   | JAPAN                     | JAPAN                  |

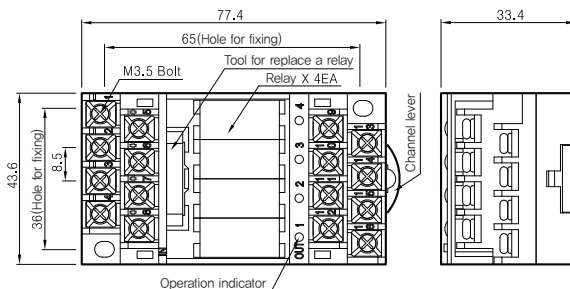
## • Material/Specification

|                     |                                      |
|---------------------|--------------------------------------|
| Case                | Modified PPO                         |
| Protective cover    | Polycarbonate                        |
| P.C.B               | Epoxy 1.6t / 2oz                     |
| Applicable wire     | AWG22~16 (MAX / 1.5mm <sup>2</sup> ) |
| Terminal Screw      | M3,5 X 8L                            |
| Screw torque        | 7~8Kgf · cm (0.68~0.78 N · m)        |
| Ambient temperature | -10°C ~ +50°C (No condensation)      |

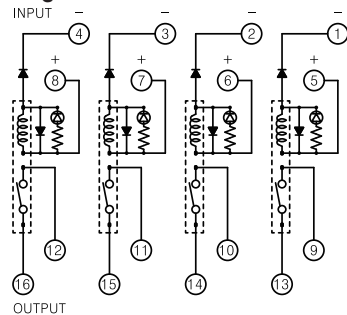
## • Applicable crimp terminal



## • Dimension



## • Diagram



※ The above specifications are subject to change without notice.

※ Please contact HQ or branch office where you purchased product for A/S of this product or technique.