

I/O Solid State Relays

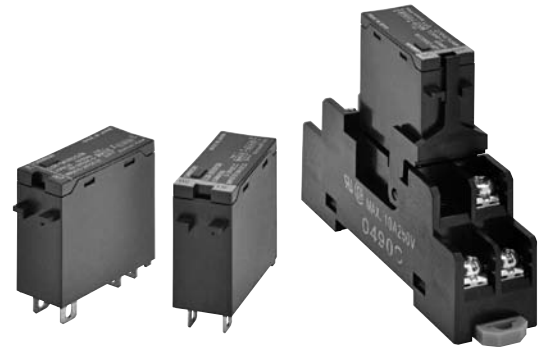
G3R-I/O

SSR with Plug-in Terminals



The Same Shape as the G2R-1-S Power Relays

- Reduces wiring work by 60% when combined with the P2RF-05-PU Push-In Plus Socket (according to actual OMRON measurements).
- These I/O solid state relays can be mounted in OMRON G70A I/O Terminals.
- Lineup includes Input Modules for microloads and Output Modules for standard loads.
- Certified by UL, CSA, and EN (TÜV certification) (-UTU models).



Note: The socket is optional.

Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

RoHS Compliant



Refer to *Safety Precautions for All Solid State Relays*.

Ordering Information

List of Models



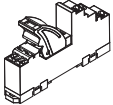
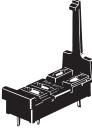
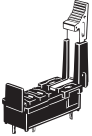

Input Modules for Microloads

| Insulation method | Operation indicator | Response speed | Applicable load | Input rated voltage | Model |
|-------------------|---------------------|----------------|------------------------------|---------------------|---------------------------|
| Photocoupler | Yes | --- | 4 to 32 VDC 0.1 to 100 mA | 100 to 240 VAC | G3R-IAZR1SN-UTU AC100-240 |
| | | High-speed | | 5 VDC | G3R-IDZR1SN-UTU DC5 |
| | | Low-speed | | 12 to 24 VDC | G3R-IDZR1SN-UTU DC12-24 |
| | | | | 5 VDC | G3R-IDZR1SN-1-UTU DC5 |
| | | | | 12 to 24 VDC | G3R-IDZR1SN-1-UTU DC12-24 |

Output Modules for Standard Loads

| Insulation method | Operation indicator | Zero cross function | Applicable load | Input rated voltage | Model |
|-------------------|---------------------|---------------------|------------------------|---------------------|-------------------------|
| Phototriac | Yes | Yes | 2 A at 100 to 240 VAC | 5 to 24 VDC | G3R-OA202SZN-UTU DC5-24 |
| | | No | | | G3R-OA202SLN-UTU DC5-24 |
| Photocoupler | | --- | 2 A at 5 to 48 VDC | | G3R-ODX02SN-UTU DC5-24 |
| | | | 1.5 A at 48 to 200 VDC | | G3R-OD201SN-UTU DC5-24 |

Accessories (Order Separately) Connection Sockets

| Classification | Terminal type | Appearance | Model |
|----------------|--|---|------------|
| Front-mounting | Screw terminals |  | P2RFZ-05 |
| | Screw terminals (finger protection structure) |  | P2RFZ-05-E |
| | Push-In Plus terminal blocks |  | P2RF-05-PU |
| Back-mounting | Relays with PCB Terminals |  | P2R-05P |
| | |  | P2R-057P |
| | Solder terminals |  | P2R-05A |

For Push-In Plus Terminal Block Sockets
Short Bars

| Applicable sockets | Pitch | Application | Shape/external dimensions | Number of poles | L (Length) | Insulation color | Short Bars Model*1 | Maximum carry current |
|--------------------|---------|---------------------------|---------------------------|-----------------|----------------|----------------------------------|--------------------|-----------------------|
| P2RF-05-PU | 7.75 mm | Output terminals (common) | | 2 | 15.1 | Red (R) Blue (S) Yellow(Y) | PYDN-7.75-020□ | 20 A |
| | | | | 3 | 22.85 | | PYDN-7.75-030□ | |
| 4 | | | | 30.6 | PYDN-7.75-040□ | | | |
| 20 | | | | 154.6 | PYDN-7.75-200□ | | | |
| | 15.5 mm | Input terminals | | 8 | 115.55 | | PYDN-15.5-080□ | |

*1. Replace the box (□) in the model number with the code for the covering color. □Color selection: R = Red, S = Blue, Y = Yellow

Labels

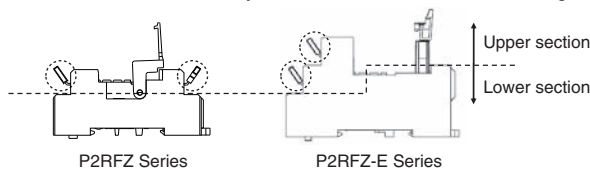
| Applicable sockets | Model | Manufacturer | Minimum order (Box) (quantity per Box) |
|--------------------|-----------------|--------------|--|
| P2RF-05-PU | MG-CPM-04 41391 | Cembre | 1,344 (28 Sheet/48 Pieces) |

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

For Screw Terminal Sockets
Short Bars

| Applicable sockets | Pitch | Appearance | Dimensions (mm) | Number of poles | Insulation color | Short Bars Model | Maximum carry current | Minimum order (set) |
|--------------------|---------|------------|-----------------|-----------------|------------------|------------------|-----------------------|---------------------|
| P2RFZ-05-E | 15.7 mm | | | 10 | Blue(S) | P2DN-15.7-100S | 20 A | 1 |
| P2RFZ-05 | 19.4 mm | | | 10 | Blue(S) | P2DN-19.4-100S | 20 A | 1 |

Note: 1. Select an applicable type of short bars by checking applicable socket type, appearance, and dimensions.
 2. Use the Short Bars for crossover wiring within one Socket or between Sockets.
 3. Use the short bars on the lower section of the socket.
 When using the short bars on the upper section of the socket, insert them so that their heads are pointed upwards (see the figure below). Otherwise, short bars may interfere with the socket, leading to improper wiring and contact failure.




* One set (order unit) contains 10 short bars and 20 caps.

Accessories for Short Bars (P2DN)
Cap

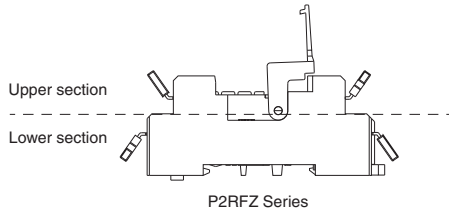
| Short Bars Models | Appearance | Dimensions (mm) | Model |
|----------------------------------|------------|-----------------|------------|
| P2DN-19.4-100S P2DN-15.7-100S | | | P2DN-CP100 |

For Screw Terminal Sockets (P2RFZ-05)

Terminal covers

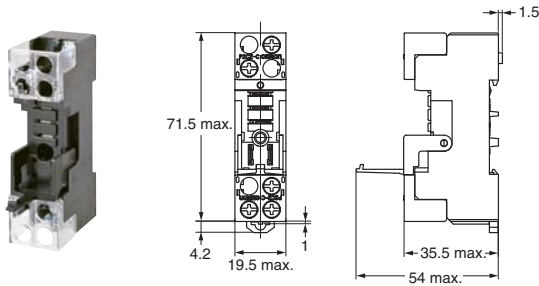
| Applicable sockets | Appearance | Model | Minimum order (set) |
|--------------------|---|--------|---------------------|
| P2RFZ-05 |  | P2CZ-C | |

- Note:**
1. Use these covers in a combination with P2RFZ-05.
 2. Do not install short bars (optional) on the upper section (see the figure below). Short bars may interfere with the terminal cover, making the terminal cover unusable.



Dimensions with terminal cover

P2RFZ-05

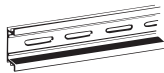




Labels

| Applicable sockets | Model | Manufacturer | Minimum order (Box) (quantity per Box) |
|--------------------|------------------|--------------|---|
| P2RFZ-05-E | MG-CPM-04 41390N | Cembre | 1,680 (35 Sheet/48 Pieces) |

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

DIN Track Mounting Parts

| Classification | Type | Appearance | Model |
|--------------------|--|---|-----------|
| For front-mounting | DIN Tracks | Shallow type, total length: 1 m | PFP-100N |
| | | Shallow type, total length: 0.5 m | PFP-50N |
| | Deep type, total length: 1 m |  | PFP-100N2 |
| | End Plate |  | PFP-M |
| | Spacer |  | PFP-S |
| For back-mounting | Mounting Plates for Sockets * (For 5 Sockets) | --- | P2R-P |

* Used to mount several P2R-05A Connecting Sockets side by side.

Ratings and Specifications

Ratings

Input Modules for Microloads

Input Side

| Model | Item | Rated voltage | Operating voltage | Input current | Must-operate voltage | Must-release voltage |
|-------------------|------|----------------|-------------------|---------------|----------------------|----------------------|
| G3R-IAZR1SN-UTU | | 100 to 240 VAC | 60 to 264 VAC | 15 mA max. | 60 VAC max. | 20 VAC min. |
| G3R-IDZR1SN-UTU | | 5 VDC | 4 to 6 VDC | 8 mA max. | 4 VDC max. | 1 VDC min. |
| G3R-IDZR1SN-UTU | | 12 to 24 VDC | 6.6 to 32 VDC | | 6.6 VDC max. | 3.6 VDC min. |
| G3R-IDZR1SN-1-UTU | | 5 VDC | 4 to 6 VDC | | 4 VDC max. | 1 VDC min. |
| G3R-IDZR1SN-1-UTU | | 12 to 24 VDC | 6.6 to 32 VDC | | 6.6 VDC max. | 3.6 VDC min. |

Output Side

| Model | Item | Load voltage | Load current |
|-------------------|------|--------------|---------------|
| G3R-IAZR1SN-UTU | | 4 to 32 VDC | 0.1 to 100 mA |
| G3R-IDZR1SN-UTU | | | |
| G3R-IDZR1SN-UTU | | | |
| G3R-IDZR1SN-1-UTU | | | |
| G3R-IDZR1SN-1-UTU | | | |

Output Modules for Standard Loads

Input Side

| Model | Item | Rated voltage | Operating voltage | Input current | Must-operate voltage | Must-release voltage |
|------------------|------|---------------|-------------------|--------------------------|----------------------|----------------------|
| G3R-OA202SZN-UTU | | 5 to 24 VDC | 4 to 32 VDC | 15 mA max. (at 25° C) | 4 VDC max. | 1 VDC min. |
| G3R-OA202SLN-UTU | | | | | | |
| G3R-ODX02SN-UTU | | | | 8mA max. | | |
| G3R-OD201SN-UTU | | | | | | |

Output Side

| Model | Item | Load voltage | Load current*1 | Surge withstand current |
|------------------|------|---------------|-----------------|-------------------------|
| G3R-OA202SZN-UTU | | 75 to 264 VAC | 0.05 to 2 A*2 | 30 A (60 Hz, 1 cycle) |
| G3R-OA202SLN-UTU | | | | |
| G3R-ODX02SN-UTU | | 4 to 60 VDC | 0.01 to 2 A*2 | 8 A (10 ms) |
| G3R-OD201SN-UTU | | 40 to 200 VDC | 0.01 to 1.5 A*2 | 8 A (10 ms) |

*1. Depends on the ambient temperature. Refer to the reference data *Load Current vs. Ambient Temperature Rating* on page 6 for details.

*2. The minimum current value is for a temperature of 10°C or higher.

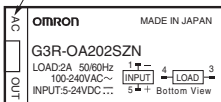
I/O External Display

Lineup includes Input Modules and Output Modules.

The I/O Module classification and AC/DC classification are also indicated in the markings on top of the Relay.

| Marking | Specifications |
|---------|--|
| AC IN | Input Modules for Microloads, AC input |
| DC IN | Input Modules for Microloads, DC input |
| AC OUT | Output Modules for Standard Loads, AC output |
| DC OUT | Output Modules for Standard Loads, DC output |

Marking on top of the Relay



Characteristics

Input Modules for Microloads

| Model | Item | G3R-IAZR1SN-UTU | G3R-IDZR1SN-UTU | G3R-IDZR1SN-1-UTU |
|-------------------------------|------|---|-----------------|-------------------|
| Operation time | | 20 ms max. | 0.1 ms max. | 15 ms max. |
| Release time | | | | |
| Response frequency | | 10 Hz | 1 kHz | 10 Hz |
| Output ON voltage drop | | 1.6 V max. | | |
| Leakage current | | 5 μ A max. | | |
| Insulation resistance | | 100 M Ω min. between I/O | | |
| Dielectric strength | | 4,000 VAC for 1 min. between I/O | | |
| Vibration resistance | | 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) | | |
| Shock resistance | | 1,000 m/s ² | | |
| Storage temperature | | -30 to 100°C (with no icing) | | |
| Ambient operating temperature | | -30 to 80°C (with no icing) | | |
| Ambient operating humidity | | 45% to 85% RH | | |
| Weight | | Approx. 18 g | | |
| MTTFd (Reference value) | | 1,000 years min. | | |

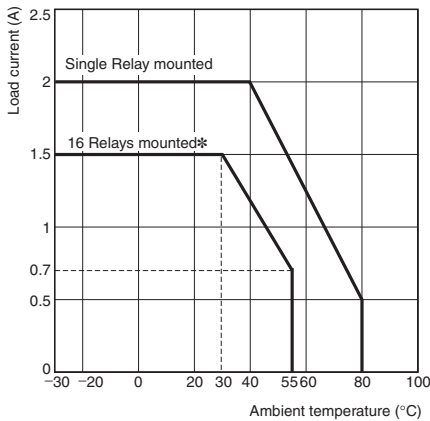
Output Modules for Standard Loads

| Model | Item | G3R-OA202SZN-UTU | G3R-OA202SLN-UTU | G3R-ODX02SN-UTU | G3R-OD201SN-UTU |
|-------------------------------|------|---|------------------|-----------------|-----------------|
| Operation time | | 1/2 load power supply cycle + 1 ms max. | 1 ms max. | | |
| Release time | | 1/2 load power supply cycle + 1 ms max. | | 2 ms max. | |
| Response frequency | | 20 Hz | | 100 Hz | |
| Output ON voltage drop | | 1.6 V max. | | | 2.5 V max. |
| Leakage current | | 1.5 mA max. | | 1 mA max. | |
| Insulation resistance | | 100 M Ω min. between I/O | | | |
| Dielectric strength | | 4,000 VAC for 1 min. between I/O | | | |
| Vibration resistance | | 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) | | | |
| Shock resistance | | 1,000 m/s ² | | | |
| Storage temperature | | -30 to 100°C (with no icing) | | | |
| Ambient operating temperature | | -30 to 80°C (with no icing) | | | |
| Ambient operating humidity | | 45% to 85% RH | | | |
| Weight | | Approx. 18 g | | | |
| MTTFd (Reference value) | | 1,000 years min. | | | |

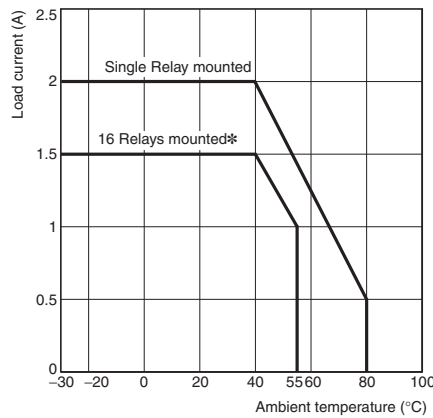
Engineering Data

Load Current vs. Ambient Temperature Rating

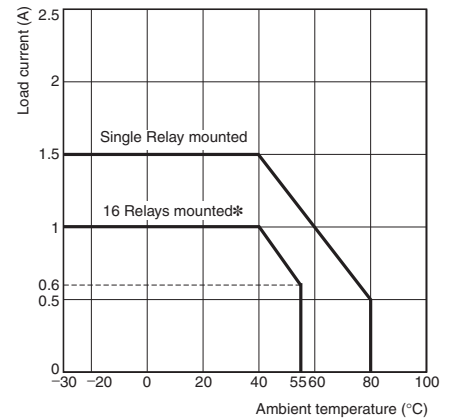
G3R-OA202S□N-UTU



G3R-ODX02SN-UTU (4 to 60 VDC)



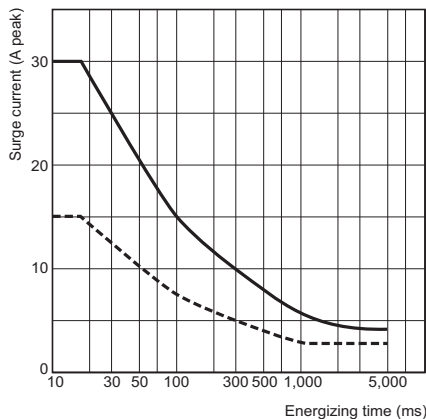
G3R-OD201SN-UTU (40 to 200 VDC)



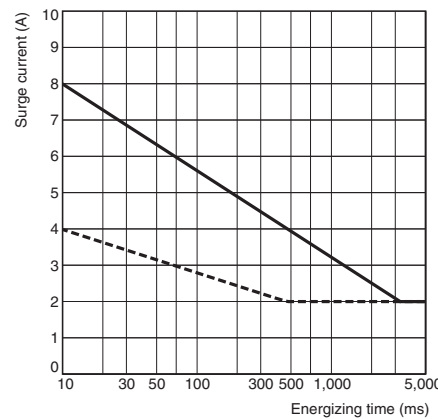
* On G70A-ZOC16, fully mounted.

Non-repetitive Surge Withstand Current (If repetitive, keep the inrush current below the dotted line.)

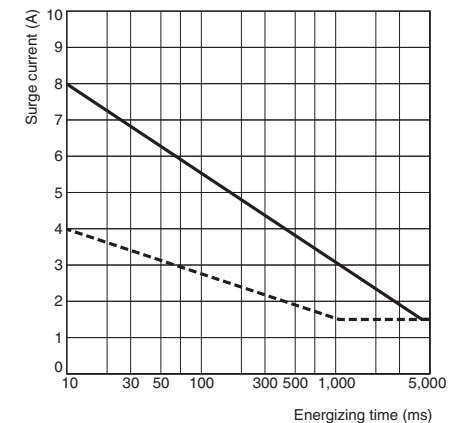
G3R-OA202S□N-UTU



G3R-ODX02SN-UTU (4 to 60 VDC)

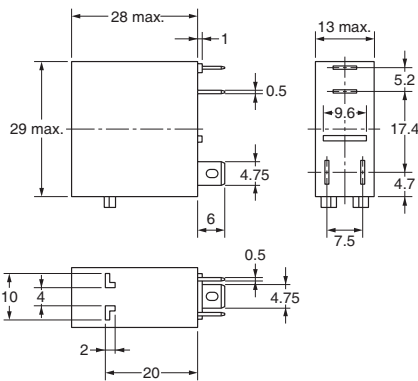


G3R-OD201SN-UTU (40 to 200 VDC)

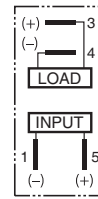


Dimensions

Relay G3R-I/O



Terminal Arrangement/
Internal Connections
(Bottom View)



- Note:**
1. With AC input, the input side has no polarity.
 2. The load is possible to connect either + side or - side.

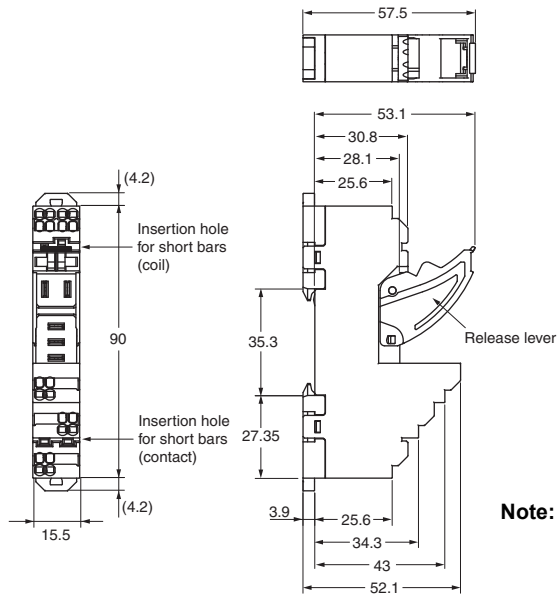
Socket Characteristics

| Model | Rated carry current | Dielectric strength | Insulation resistance * | Remarks |
|--------------|---------------------|---|-------------------------|---------|
| P2RF-05-PU | 10 A | Between contact terminals of same polarity: 1,000 VAC for 1 min Between coil and contact terminals: 4,000 VAC for 1 min | 1,000 MΩ min. | |
| P2RFZ-05(-E) | 10 A | Between contact terminals of same polarity: 1,000 VAC for 1 min Between coil and contact terminals: 4,000 VAC for 1 min | 1,000 MΩ min. | |
| P2R-05P | 10 A | Between contact terminals of same polarity: 1,000 VAC for 1 min Between coil and contact terminals: 4,000 VAC for 1 min | 1,000 MΩ min. | |
| P2R-057P | 10 A | Between contact terminals of same polarity: 1,000 VAC for 1 min Between coil and contact terminals: 5,000 VAC for 1 min | 1,000 MΩ min. | |
| P2R-05A | 10 A | Between contact terminals of same polarity: 1,000 VAC for 1 min Between ground terminals: 1,500 VAC for 1 min Between coil and contact terminals: 4,000 VAC for 1 min | 1,000 MΩ min. | |

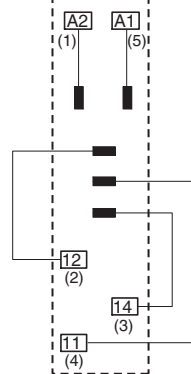
* The insulation resistance was measured with a 500-VDC insulation resistance meter at the same places as those used for measuring the dielectric strength.

Track/Surface Mounting Sockets

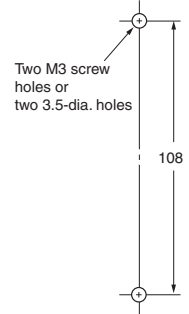
P2RF-05-PU



Terminal Arrangement/
Internal Connection Diagram
(Top View)



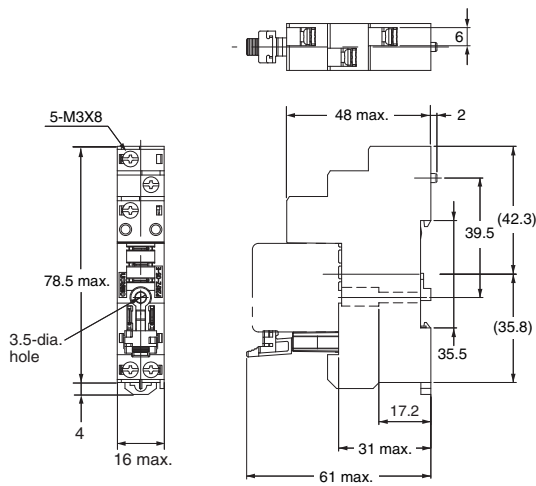
Mounting Hole
Dimensions



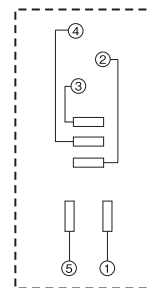
- Note:**
1. The numbers in parentheses are traditionally used terminal numbers.
 2. Insert the short bar into only the A1 or A2 side.
 3. Contact terminal crossover will result in functionality only on the No. 11 terminal side. The insertion hole on the No. 14 terminal side is a dummy hole for installing a short bar without bending the pins.

Note: Pull out the hooks to mount the Socket with screws.

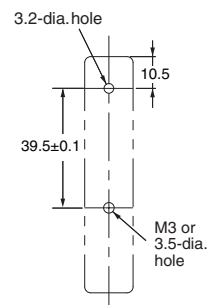
P2RFZ-05-E



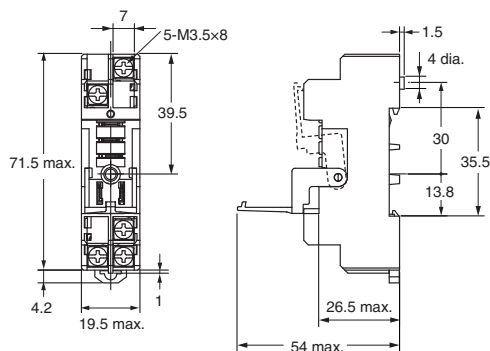
Terminal Arrangement/
Internal Connection Diagram
(Top View)



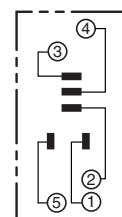
Mounting Hole
Dimensions



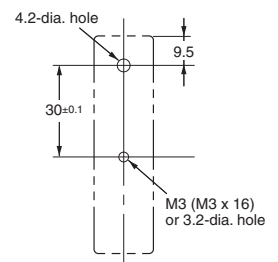
P2RFZ-05



Terminal Arrangement/
Internal Connection Diagram
(Top View)

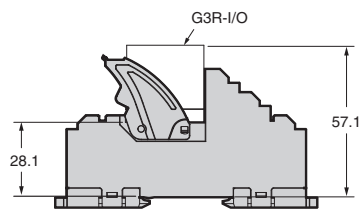


Mounting Hole
Dimensions

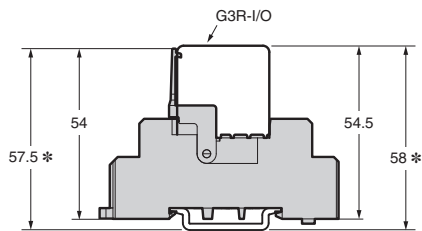


Mounting Height of Relay with Track/Surface Mounting Sockets

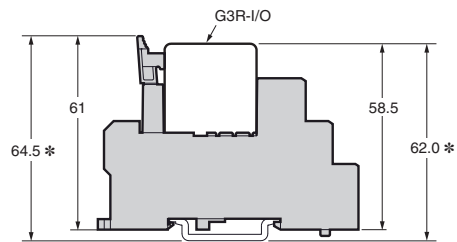
P2RF-05-PU



P2RFZ-05



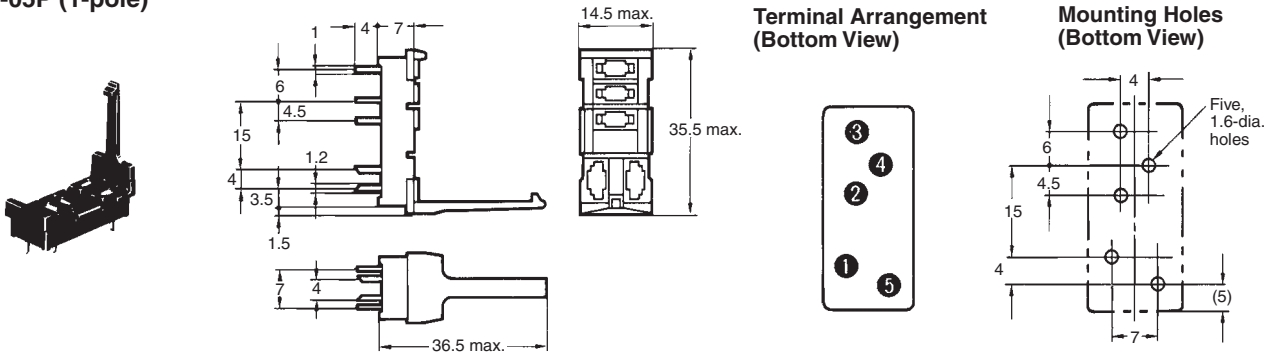
P2RFZ-05-E



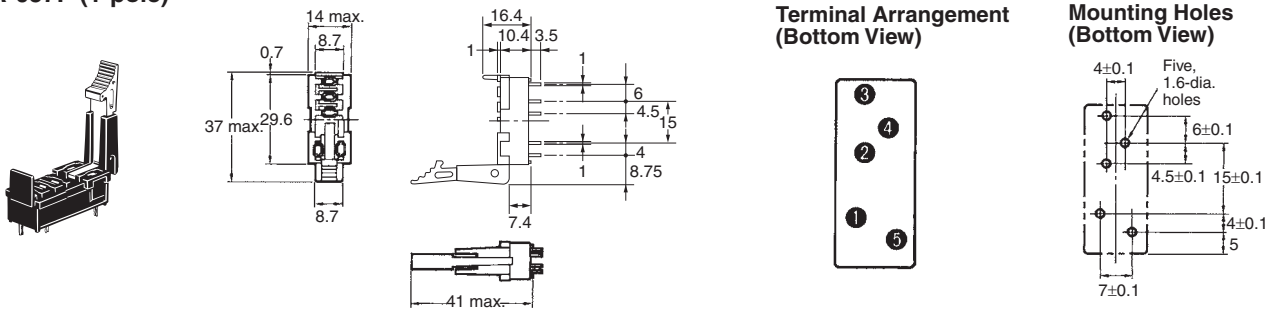
* These are values when using the DIN track PFP-□N.
 Heights become higher by approximately 9 mm when using PFP-□N2.

Back-connecting Sockets

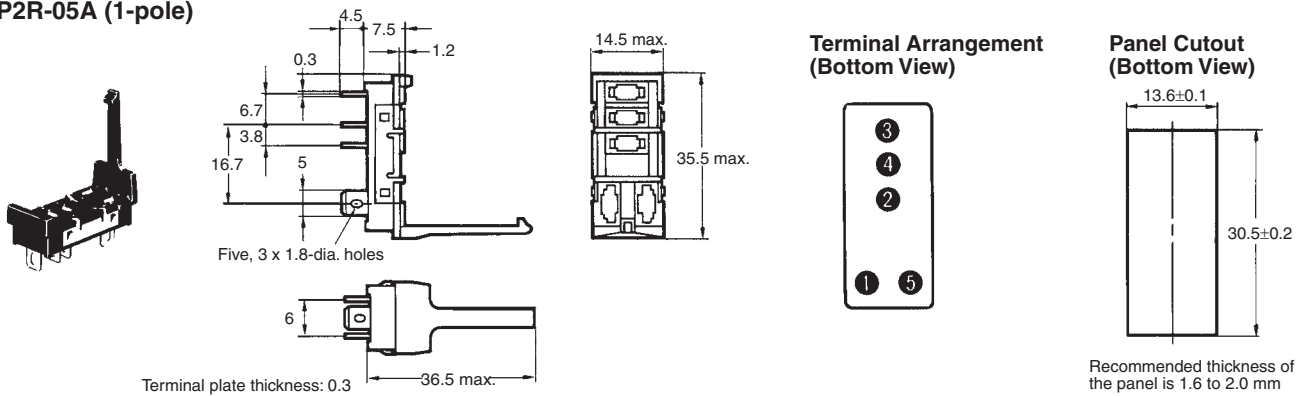
P2R-05P (1-pole)



P2R-057P (1-pole)



P2R-05A (1-pole)

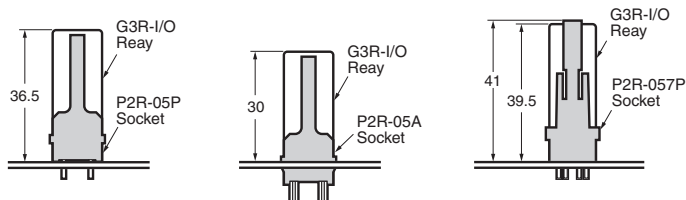


Mounting Height of Relay with Back-connecting Sockets

P2R-05P

P2R-05-A

P2R-057P



Safety Precautions

Be sure to read 'the Common Precautions' in the website at the following URL:
<http://www.ia.omron.com/>.

Refer to *Safety Precautions for All Solid State Relays* of your OMRON website.

Refer to *Products Related to Common Sockets and DIN Tracks* for precautions on the applicable Sockets of your OMRON website.

Refer to *PYF-□□-PU/P2RF-□□-PU* for precautions on Push-In Plus Terminal Block Sockets of your OMRON website.

| | |
|------------------------------------|---|
| Precautions for Correct Use | Supplementary comments on what to do or avoid doing to prevent failure to operate, malfunction, or undesirable effects on product performance. |
|------------------------------------|---|

Precautions for Correct Use

About the Built-in Diodes

The diodes that are built into the Relays are designed to absorb reverse voltage from the Relay's coil. If a large surge in voltage is applied to the diode from an external source, the element will be destroyed.

If there is the possibility of large voltage surges that could be applied to the elements from an external source, take any necessary surge absorption measures.

Latching Levers

- Turn OFF the power supply when operating the latching lever. After you use the latching lever always return it to its original state.
- Do not use the latching lever as a switch.
- The latching lever can be used for 100 operations minimum.

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Coil tape color

Pink tape is used for the AC coil type and blue tape is used for the DC coil type, making it easy to distinguish AC and DC.

Using a short-circuit bar

- Use the short-circuit bar that is suitable for the socket you are using and the location of use.
- The short-circuit bar can be cut to match any number of poles. Cut with a tool as appropriate for the number of relays and sockets. When using a cut short-circuit bar, take care to avoid injuring yourself on the cut surface.
- When cutting with a tool, insert the tool from the plastic part and cut along the slot in the plastic part between terminals. If you cut a part other than the slot in the plastic part between terminals, it may not be possible to attach the insulating cap.



- When using a cut short-circuit bar (P2DN), always use the provided cap to protect the charger part.



- Use the short-circuit bar to short-circuit two or more Input terminals, or two or more Output terminals.
- Do not use a deformed short-circuit bar. Risk of failure, malfunctioning, or deterioration of characteristics.
- In socket terminals, insert the short-circuit bar in the correct orientation all the way into all terminals, and then secure with screws.
- Install the short-circuit bar before wiring.

Common connection method when using a short bar

When connecting the P2RF-□□-PU input common, insert the short bar into only the A1 or A2 side.

Equivalent Labels from Other Companies and Recommended Label Printers

Use the following label printer.

The following table gives the manufacturer's model number as of March 2017.

| Manufacturer | Omron | Phoenix Contact | Weidmuller | Cembre |
|---------------|--------------|--|--|------------------|
| Label | XW5Z-P4.0LB1 | UCT-TM6 | MF 10/6 | MG-CPM-04 41391 |
| | XW5Z-P2.5LB2 | UCT-TMF5 | --- | --- |
| Label printer | --- | BLUEMARK CLED, THERMOMARK CARD SET PLUS, THERMOMARK CARD | PrintJet ADVANCED, Plotter MCP Plus, Plotter MCP Basic | Markingenius MG3 |

* When using a printing tool, use a Phoenix Contact label printer.

Note: Ask the label manufacturer or printer manufacturer for details.

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