

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Power PCB Relay G2R

- Creepage distance of 8.0 mm (0.31) min. between coil and contact.
- Dual-winding latching type available.
- Plug-in and quick-connect terminals available.
- High sensitivity (360 mW) and high capacity (16 A) types available.
- Highly stable magnetic circuit for latching endurance and excellent resistance to vibration and shock.
- Safety-oriented design assuring high surge resistance: 10,000 V min. between coil and contacts.
- UL, CSA approved, marked with CE.



Ordering Information

To order: Select the part number and add the desired coil voltage rating (e.g., G2R-14-DC12).

■ Non-Latching

1-Pole - PCB Types

| Type | Contact material | Contact form | Construction | Model |
|------------------|------------------|--------------|--------------|-----------|
| General purpose | AgCdO | SPDT | Semi-sealed | G2R-1 |
| | | | Sealed | G2R-14 |
| | | SPST-NO | Semi-sealed | G2R-1A |
| | | | Sealed | G2R-1A4 |
| High-capacity | | SPDT | Semi-sealed | G2R-1-E |
| | | SPST-NO | | G2R-1A-E |
| High-sensitivity | | SPDT | | G2R-1-H |
| | | | Sealed | G2R-14-H |
| | | SPST-NO | Semi-sealed | G2R-1A-H |
| | | | Sealed | G2R-1A4-H |

1-Pole - Plug-in/Quick-connect Types

| Type | Contact material | Contact form | Terminal | Model |
|---|------------------|--------------|---------------|-----------|
| General purpose | AgCdO | SPDT | Plug-in | G2R-1-S |
| LED indicator | | | | G2R-1-SN |
| Surge suppression diode | | | | G2R-1-SD |
| LED indicator and surge suppression diode | | | | G2R-1-SND |
| Upper-mount bracket | | SPDT | Quick connect | G2R-1-T |
| | | | | SPST-NO |

- Note:**
1. AgInSn and gold plated contacts available.
 2. Bifurcated button available.
 3. For individual product agency approvals consult factory.
 4. Class B coil insulation available.
 5. Push to test button available on plug-in type. Consult Omron for details.
 6. CE mark only on plug-in and quick connect types (G2R-□-S).

2-Pole - PCB Types

| Type | Contact material | Contact form | Construction | Model |
|------------------|------------------|--------------|--------------|-----------|
| General purpose | AgCdO | DPDT | Semi-sealed | G2R-2 |
| | | | Sealed | G2R-24 |
| | | DPST-NO | Semi-sealed | G2R-2A |
| | | | Sealed | G2R-2A4 |
| High sensitivity | AgCdO | DPDT | Semi-sealed | G2R-2-H |
| | | | Sealed | G2R-24-H |
| | | DPST-NO | Semi-sealed | G2R-2A-H |
| | | | Sealed | G2R-2A4-H |

2 Pole - Plug-in/Quick-connect Types

| Type | Contact material | Contact form | Terminal | Model |
|---|------------------|--------------|----------|-----------|
| General purpose | AgCdO | DPDT | Plug-in | G2R-2-S |
| LED indicator | | | | G2R-2-SN |
| Surge suppression diode | | | | G2R-2-SD |
| Led indicator and surge suppression diode | | | | G2R-2-SND |

- Note:**
1. AgInSn and gold plated contacts available.
 2. Bifurcated button available.
 3. For individual product agency approvals consult factory.
 4. Class B coil insulation available.
 5. Push to test button available on plug-in type. Consult Omron for details.

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■ Latching

| Type | Contact form | Construction | Model |
|--------------------|--------------|--------------|---------|
| Dual coil latching | SPDT | Semi-sealed | G2RK-1 |
| | SPST-NO | | G2RK-1A |
| | DPDT | | G2RK-2 |
| | DPST-NO | | G2RK-2A |

■ Accessories

Track Mounted Sockets/Track

| Relay | Model | |
|--------------------|----------------------|--|
| | Socket | Mounting track |
| G2R-1-S□□ (1-pole) | P2RF-05 P2RF-05-E | PFP-100N or PFP-50N and |
| G2R-2-S□□ (2-pole) | P2RF-08 P2RF-08-E | PFP-M end plate PFP-S (optional spacer) |

Note: "E" models are of finger-safe product construction. Round terminals cannot be used. Use Y-shaped terminals.

Screwless Clamp Terminal Socket Ordering Information

| | 1-pole | 2-pole |
|----------------------|-------------------------|-----------|
| Socket | P2RF-05-S | P2RF-08-S |
| Clip & release lever | P2CM-S | |
| Nameplate | R99-11 nameplate for MY | |
| Socket bridge | P2RM-SR, P2RM-SB | |

Note: For complete specifications see the data sheet at Omron's Knowledge center at www.knowledge.omron.com.

Back Connecting Sockets/Plate

| Relay | Terminal | Model | |
|--------------------|----------|----------|-----------------------|
| | | Socket | Socket mounting plate |
| G2R-1-S□□ (1-pole) | Solder | P2R-05-A | P2R-P |
| | PC | P2R-05P | |
| G2R-2-S□□ (2-pole) | Solder | P2R-08A | |
| | PC | P2R-08P | |

Specifications

■ Contact Data

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Non-latching general purpose, plug-in, plug-in operation indicator self-contained, plug-in diode self-contained and upper-mount bracket.

| Load | 1-pole type | | 2-pole type | |
|-------------------------|-----------------------------------|---|---------------------------------|---|
| | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) |
| Rated load | 10 A at 250 VAC 10 A at 30 VDC | 7.5 A at 250 VAC 5 A at 30 VDC | 5 A at 250 VAC 5 A at 30 VDC | 2 A at 250 VAC 3 A at 30 VDC |
| Contact material | AgCdO | | | |
| Carry current | 10 A | | 5 A | |
| Max. operating voltage | 380 VAC, 125 VDC | | | |
| Max. operating current | 10 A | | 5 A | |
| Max. switching capacity | 2,500 VA, 300 W | 1,875 VA, 150 W | 1,250 VA, 150 W | 500 VA, 90 W |
| Min permissible load | 100 mA, 5 VDC | | 10 mA, 5 VDC | |

Non-latching high capacity 1-pole type

| Load | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) |
|-------------------------|-----------------------------------|---|
| Rated load | 16 A at 250 VAC 16 A at 30 VDC | 8 A at 250 VAC 8 A at 30 VDC |
| Contact material | AgCdO | |
| Carry current | 16 A | |
| Max. operating voltage | 380 VAC, 125 VDC | |
| Max. operating current | 16 A | |
| Max. switching capacity | 4,000 VA, 480 W | 2,000 VA, 240 W |
| Min. permissible load | 100 mA, 5 VDC | |

Non-latching high-sensitivity

| Load | 1-pole type | | 2-pole type | |
|-------------------------|---------------------------------|---|---------------------------------|---|
| | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) |
| Rated load | 5 A at 250 VAC 5 A at 30 VDC | 2 A at 250 VAC 3 A at 30 VDC | 3 A at 250 VAC 3 A at 30 VDC | 1 A at 250 VAC 1.50 A at 30 VDC |
| Contact material | AgCdO | | | |
| Carry current | 5 A | | 3 A | |
| Max. operating voltage | 380 VAC, 125 VDC | | | |
| Max. operating current | 5 A | | 3 A | |
| Max. switching capacity | 1,250 VA, 150 W | 500 VA, 90 W | 750 VA, 90 W | 250 VA, 45 W |
| Min permissible load | 100 mA, 5 VDC | | 10 mA, 5 VDC | |

Latching

| Load | 1-pole type | | 2-pole type | |
|-------------------------|---------------------------------|---|---------------------------------|---|
| | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) | Resistive load (p.f. = 1) | Inductive load (p.f. = 0.4) (L/R = 7 ms) |
| Rated load | 5 A at 250 VAC 5 A at 30 VDC | 3.50 A at 250 VAC 2.50 A at 30 VDC | 3 A at 250 VAC 3 A at 30 VDC | 1.50 A at 250 VAC 2 A at 30 VDC |
| Contact material | AgCdO | | | |
| Carry current | 5 A | | 3 A | |
| Max. operating voltage | 380 VAC, 125 VDC | | | |
| Max. operating current | 5 A | | 3 A | |
| Max. switching capacity | 1,250 VA, 150 W | 875 VA, 75 W | 750 VA, 90 W | 375 VA, 60 W |
| Min permissible load | 100 mA, 5 VDC | | 10 mA, 5 VDC | |

- Note: 1. P standard: $\lambda_{50} = 0.10 \times 10^{-6}$ operation.
 2. AgInSn contacts available.
 3. For individual product agency approvals consult factory.

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■ Coil Data

Non-latching DC coil

| Rated voltage (VDC) | Rated current (mA) | Coil resistance (Ω) | Coil inductance (ref. value) (H) | | Pick-up voltage | Dropout voltage | Maximum voltage | Power consumption (mW) |
|------------------------|-----------------------|---------------------------------|-------------------------------------|-------------|-----------------|-----------------|---------------------------------|---------------------------|
| | | | Armature OFF | Armature ON | | | | |
| 3 | 176 | 17 | 0.07 | 0.14 | 70% max. | 15% min. | 110% max. at 70°C (158°F) | Approx. 530 |
| 5 | 106 | 47 | 0.20 | 0.39 | | | | |
| 6 | 88.20 | 68 | 0.28 | 0.55 | | | | |
| 12 | 43.60 | 275 | 1.15 | 2.29 | | | | |
| 24 | 21.80 | 1,100 | 4.27 | 8.55 | | | | |
| 48 | 11.50 | 4,170 | 13.86 | 22.71 | | | | |
| 100 | 5.30 | 18,860 | 67.20 | 93.20 | | | | |
| 110 | 4.80 | 22,900 | 81.50 | 110.60 | | | | |

Non-latching AC coil

| Rated voltage (VDC) | Rated current (mA) | Coil resistance (Ω) | Coil inductance (ref. value) (H) | | Pick-up voltage | Dropout voltage | Maximum voltage | Power consumption (mW) |
|------------------------|-----------------------|---------------------------------|-------------------------------------|-------------|-----------------|-----------------|---------------------------------|---------------------------|
| | | | Armature OFF | Armature ON | | | | |
| 6 | 150 | 16 | 0.05 | 0.10 | 80% max. | 30% min. | 110% max. at 70°C (158°F) | Approx. 0.9 |
| 12 | 75 | 65 | 0.19 | 0.39 | | | | |
| 24 | 37.50 | 260 | 0.81 | 1.55 | | | | |
| 50 | 18 | 1,130 | 3.25 | 6.73 | | | | |
| 110 | 10.60 | 4,600 | 13.34 | 26.84 | | | | |
| 120 | 7.50 | 6,500 | 21 | 42 | | | | |
| 220 | 5.30 | 22,000 | 51.30 | 102 | | | | |
| 240 | 3.80 | 30,000 | 65.50 | 131 | | | | |

Non-latching high-sensitivity DC coil

| Rated voltage (VDC) | Rated current (mA) | Coil resistance (Ω) | Coil inductance (ref. value) (H) | | Pick-up voltage | Dropout voltage | Maximum voltage | Power consumption (mW) |
|------------------------|-----------------------|---------------------------------|-------------------------------------|-------------|-----------------|-----------------|---------------------------------|---------------------------|
| | | | Armature OFF | Armature ON | | | | |
| 3 | 120 | 25 | 0.13 | 0.26 | 70% max. | 15% min. | 110% max. at 70°C (158°F) | Approx. 360 |
| 5 | 71.40 | 70 | 0.37 | 0.75 | | | | |
| 6 | 60 | 100 | 0.63 | 1.07 | | | | |
| 12 | 30 | 400 | 2.14 | 4.27 | | | | |
| 24 | 15 | 1,600 | 7.80 | 15.60 | | | | |
| 48 | 7.50 | 6,400 | 31.20 | 62.40 | | | | |

Latching dual coil type - Set coil

| Rated voltage (VDC) | Rated current (mA) | Coil resistance (Ω) | Coil inductance (ref. value) (H) | | Pick-up voltage | Dropout voltage | Maximum voltage | Power consumption (mW) |
|---------------------|--------------------|---------------------|----------------------------------|-------------|-----------------|-----------------|---------------------------|------------------------|
| | | | Armature OFF | Armature ON | | | | |
| 3 | 227 | 10.80 | 0.026 | 0.052 | 70% max. | 70% max. | 110% max. at 70°C (158°F) | Approx. 850 |
| 5 | 167 | 30 | 0.073 | 0.146 | | | | |
| 6 | 138 | 43.50 | 0.104 | 0.208 | | | | |
| 12 | 70.60 | 170 | 0.42 | 0.83 | | | | |
| 24 | 34.60 | 694 | 1.74 | 3.43 | | | | |

Latching dual coil type - Reset coil

| Rated voltage (VDC) | Rated current (mA) | Coil resistance (Ω) | Coil inductance (ref. value) (H) | | Pick-up voltage | Dropout voltage | Maximum voltage | Power consumption (mW) |
|---------------------|--------------------|---------------------|----------------------------------|-------------|-----------------|-----------------|---------------------------|------------------------|
| | | | Armature OFF | Armature ON | | | | |
| 3 | 200 | 15 | 0.001 | 0.002 | 70% max. | 70% max. | 110% max. at 70°C (158°F) | Approx. 600 |
| 5 | 119 | 42 | 0.003 | 0.006 | | | | |
| 6 | 100 | 60 | 0.005 | 0.009 | | | | |
| 12 | 50 | 240 | 0.018 | 0.036 | | | | |
| 24 | 25 | 960 | 0.079 | 0.148 | | | | |

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%.
 2. The operating characteristics are measured at a coil temperature of 23°C (73°F).

■ Characteristics

| Item | | Non-latching | Latching |
|-----------------------|------------------------|---|--|
| Contact resistance | | 100 mΩ | |
| Operate (set) time | | 15 ms. max. | 20 ms max. |
| Release (reset) time | | AC: 10 ms max.; DC: 5 ms max. | 20 ms max. |
| Bounce time | Operate | --- | Mean value approx. 3 ms |
| | Release | --- | Mean value approx. 8 ms |
| Operating frequency | Mechanical | 18,000 operations/hour | |
| | Electrical | 1,800 operations/hour (under rated load) | |
| Insulation resistance | | 1,000 MΩ min. (at 500 VDC) | |
| Dielectric strength | | 5,000 VAC, 50/60 Hz for 1 minute between coil and contacts | |
| | | 1,000 VAC, 50/60 Hz for 1 minute across contacts of same pole | |
| | | 3,000 VAC, 50/60 Hz for 1 minute between contact sets, 2-pole non-latching | |
| | | 1,000 VAC, 50/60 Hz for 1 minute between set and reset coils of dual coil latching | |
| Vibration | Mechanical durability | 10 to 55 Hz; 1.50 mm (0.06) double amplitude | |
| | Malfunction durability | 10 to 55 Hz; 1.50 mm (0.06) double amplitude | |
| Shock | Mechanical durability | 1,000 m/s ² (approx. 100G) | |
| | Malfunction durability | 200 m/s ² (approx. 20 G) when energized 100 m/s ² (approx. 10 G) when de-energized | 500 m/s ² (approx. 50 G) at set 100 m/s ² (approx. 10 G) at reset |
| Ambient temperature | | -40 to 70°C (-40 to 158°F) | |
| Humidity | | 35% to 85% RH | |
| Service life | Mechanical | AC: 10,000,000 operations min. DC: 20,000,000 operations min. (at 18,000 operations/hour) | 10,000,000 operations min. (at 18,000 operations/hour) |
| | Electrical | See "Characteristics Data" | |
| Weight | | Approx. 17 g (0.60 oz.) | Approx. 17 g (0.60 oz.) |

Note: Data shown are of initial value.

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Characteristic Data

Maximum Switching Capacity - Non-latching Types

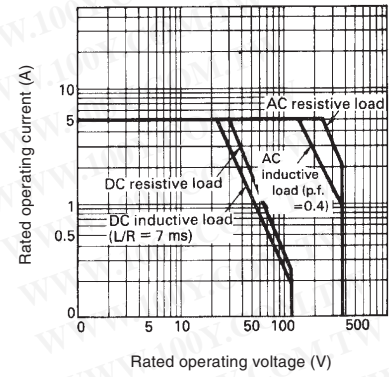
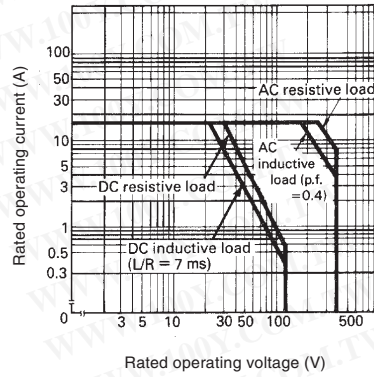
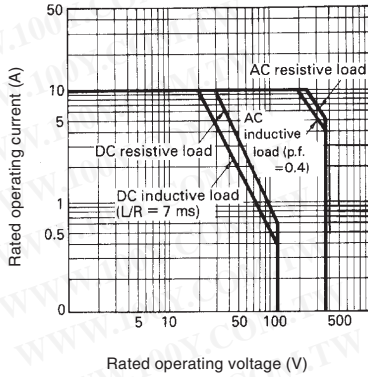
PCB: Single-pole general purpose
Semi-sealed

High capacity

PCB: Single-pole high sensitivity
Two-pole general purpose

Plug-in: Single-pole single button
Quick-connect

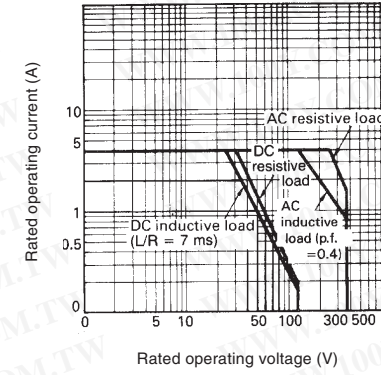
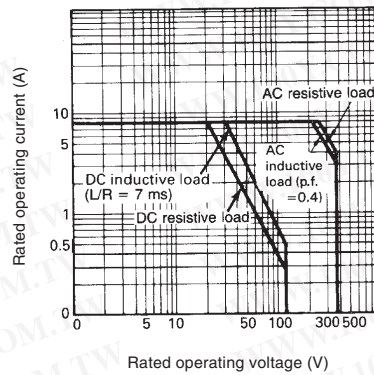
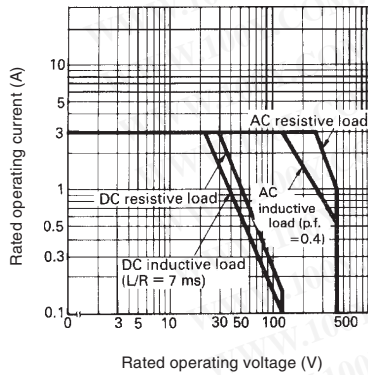
Plug-in: Two-pole single button



PCB: Two-pole high sensitivity

PCB: Single-pole general purpose
Sealed

PCB: Two-pole general purpose
Sealed



Electrical Service Life - Non-latching Types

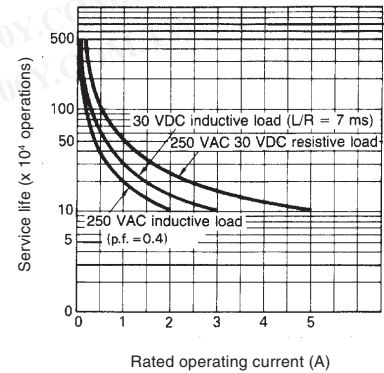
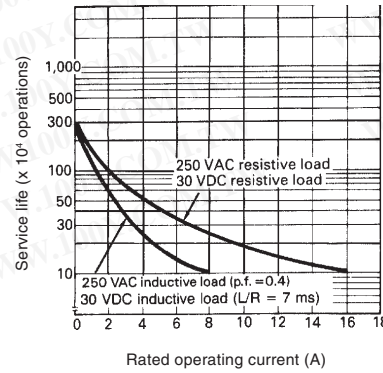
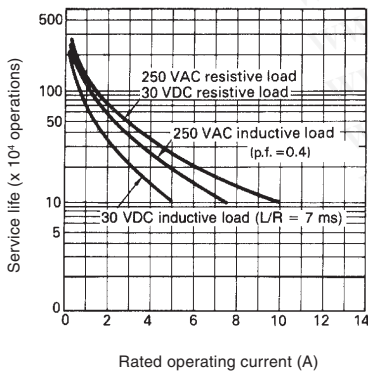
PCB: Single-pole general purpose
Semi-sealed

High capacity

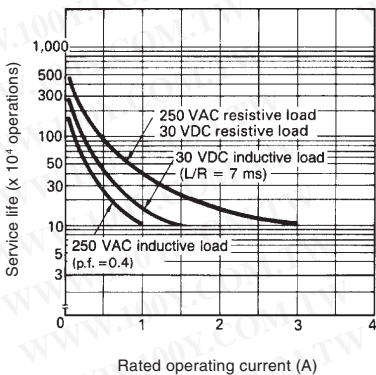
PCB: Single-pole high sensitivity
Two-pole general purpose

Plug-in: Single-pole single button
Quick connect

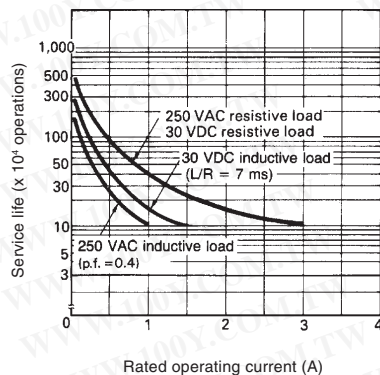
Plug-in: Two-pole single button



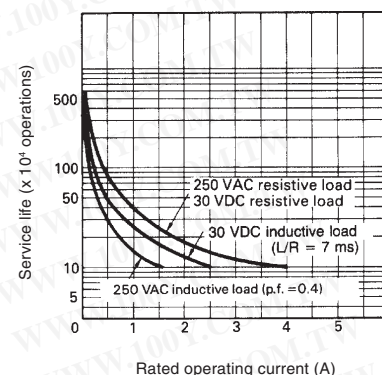
PCB: Two-pole high sensitivity



PCB: Single-pole general purpose Sealed

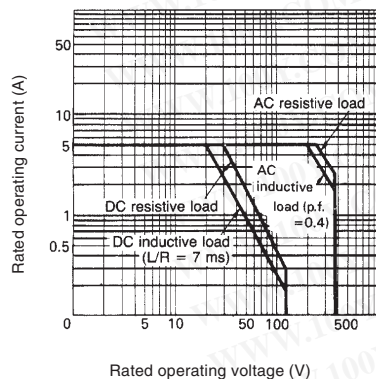


PCB: Two-pole general purpose Sealed

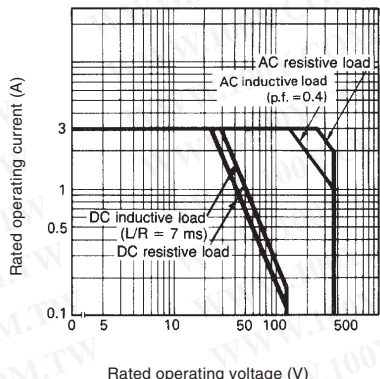


Maximum Switching Capacity - Latching Types

One pole



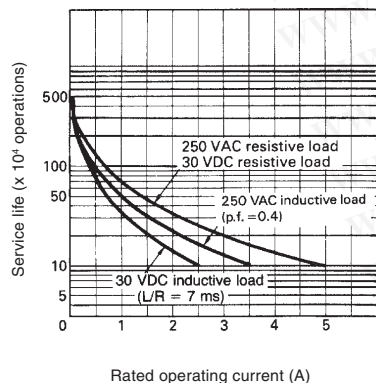
Two-pole



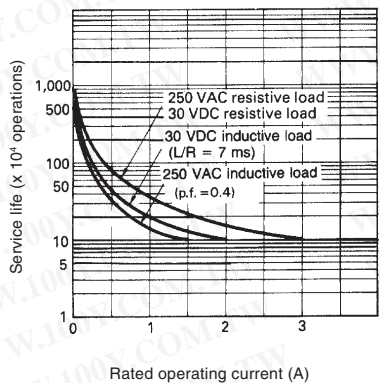
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Electrical Service Life - Latching Types

One pole



Two-pole



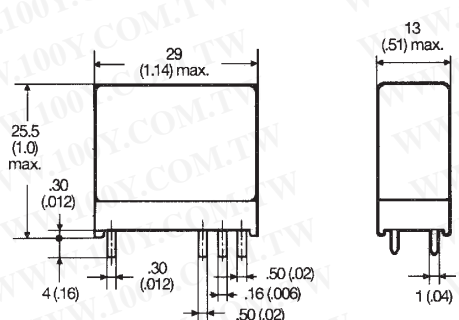
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Dimensions

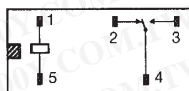
Unit: mm (inch)

■ Non-latching

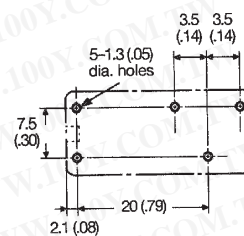
PCB Terminal: SPDT, general purpose & high sensitivity



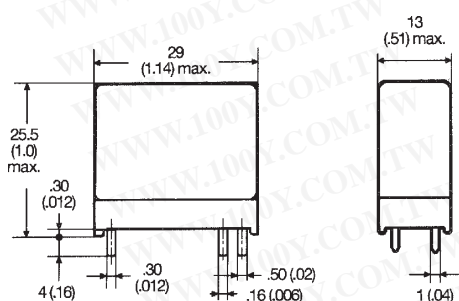
Terminal arrangement/
Internal connections
(Bottom view)



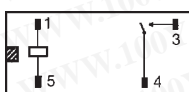
Mounting holes
(Bottom view)



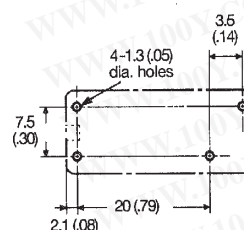
PCB Terminal: SPST-NO, general purpose & high sensitivity



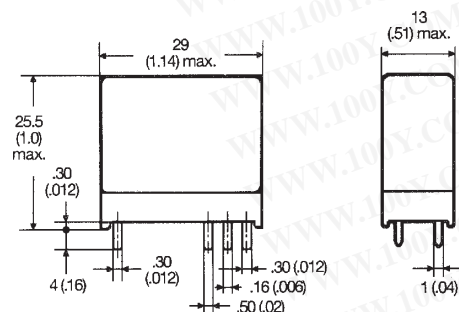
Terminal arrangement/
Internal connections
(Bottom view)



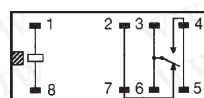
Mounting holes
(Bottom view)



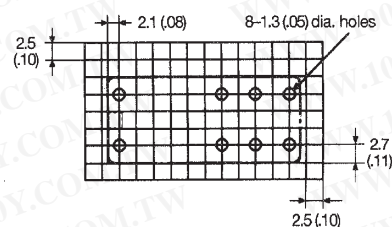
PCB Terminal: SPDT, high capacity



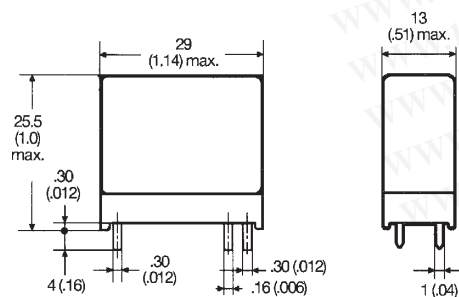
Terminal arrangement/
Internal connections
(Bottom view)



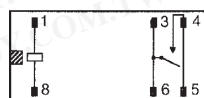
Mounting holes
(Bottom view)



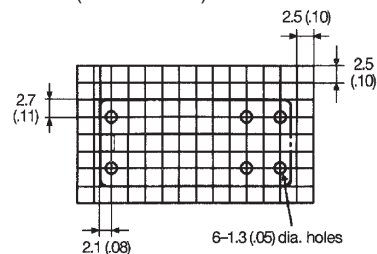
PCB Terminal: SPST-NO, high capacity



Terminal arrangement/
Internal connections
(Bottom view)

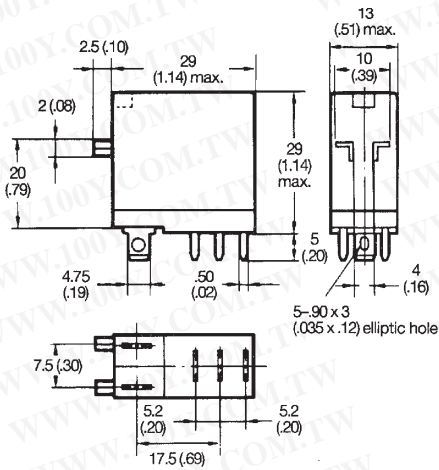


Mounting holes
(Bottom view)



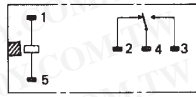
Note: 1. and indicate mounting orientation marks.
 2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

Plug-in: SPDT, single button general purpose, LED indicator, surge suppression diode

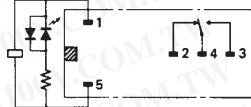


Terminal arrangement/Internal connections (Bottom view)

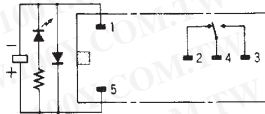
G2R-1-S



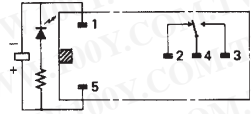
G2R-1-SN(AC)



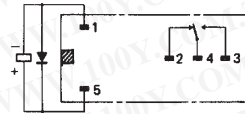
G2R-1-SND(DC)



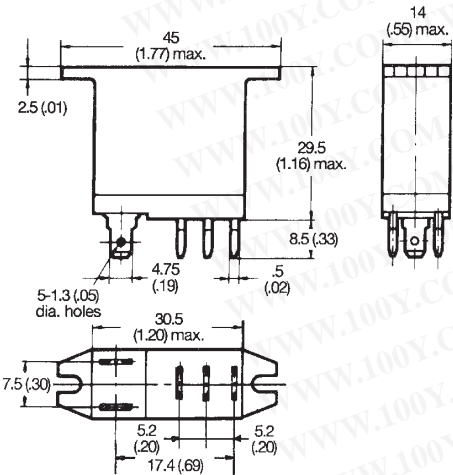
G2R-1-SN(DC)



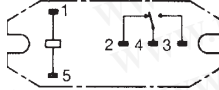
G2R-1-SD(DC)



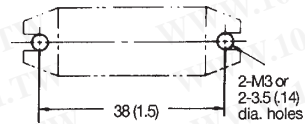
Quick-connect: SPDT



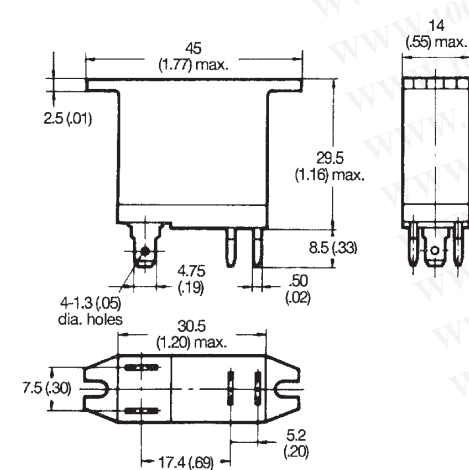
Terminal arrangement/Internal connections (Bottom view)



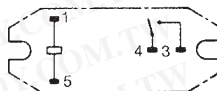
Mounting holes (Bottom view)



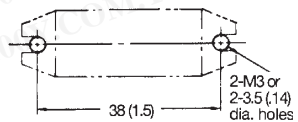
Quick-connect: SPST-NO



Terminal arrangement/Internal connections (Bottom view)



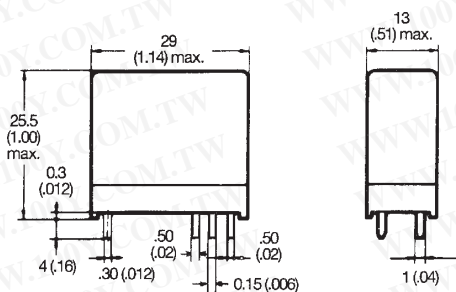
Mounting holes (Bottom view)



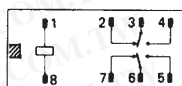
- Note: 1. and indicate mounting orientation marks.
 2. A tolerance of ±0.10 (0.004) applies to the above dimensions

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 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

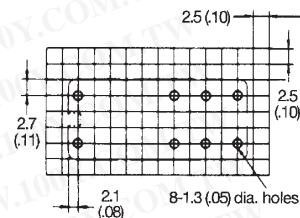
PCB Terminal: DPDT, general purpose & high sensitivity



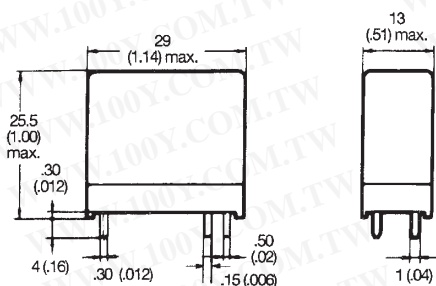
**Terminal arrangement/
Internal connections
(Bottom view)**



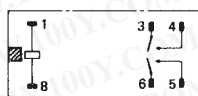
**Mounting holes
(Bottom view)**



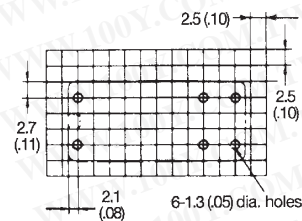
PCB Terminal: DPST-NO, general purpose & high sensitivity



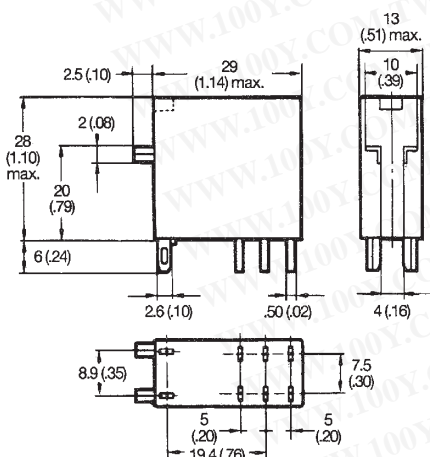
**Terminal arrangement/
Internal connections
(Bottom view)**



**Mounting holes
(Bottom view)**

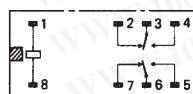


Plug-in: DPDT

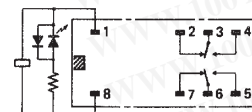


**Terminal arrangement/Internal connections
(Bottom view)**

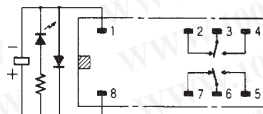
G2R-2-S



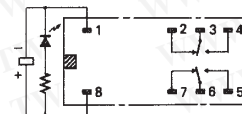
G2R-2-SN(AC)



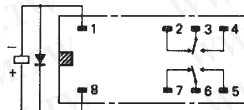
G2R-2-SND(DC)



G2R-2-SN(DC)



G2R-2-SD(DC)

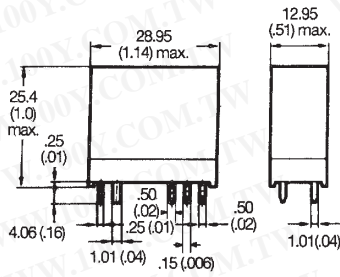


Note: 1. and indicate mounting orientation marks.
2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

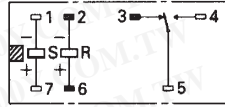
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■ Latching

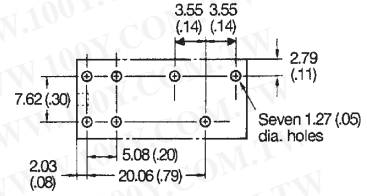
SPDT, Dual coil latching G2RK-1



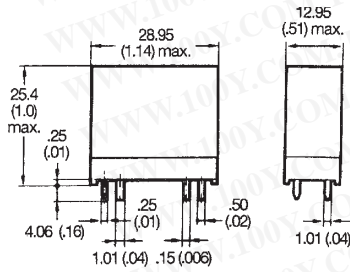
Dual coil



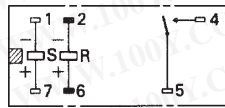
Dual coil



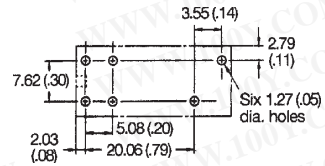
SPST-NO, Dual coil latching G2RK-1A



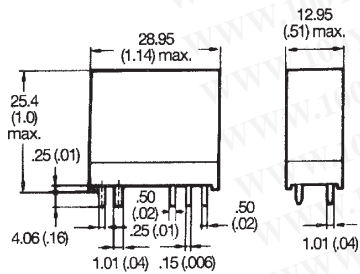
Dual coil



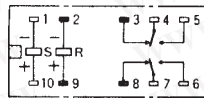
Dual coil



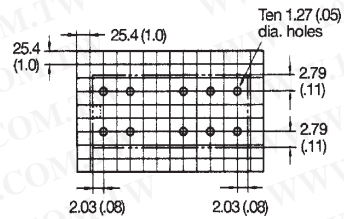
DPDT, Dual coil latching G2RK-2



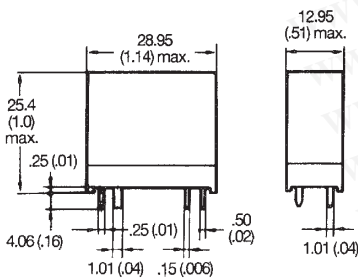
Dual coil



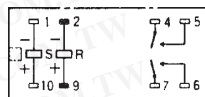
Dual coil



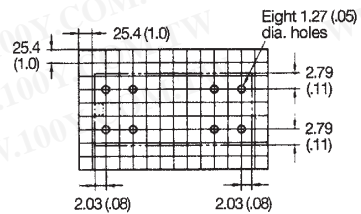
DPST-NO, Dual coil latching G2RK-2A



Dual coil



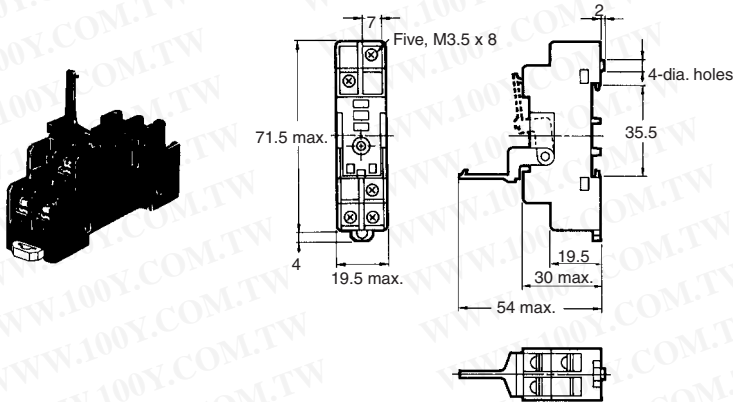
Dual coil



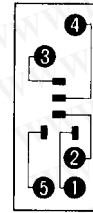
- Note: 1. and indicate mounting orientation marks.
 2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

Accessories

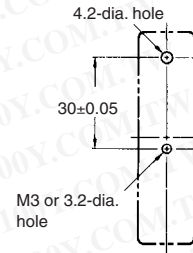
Track mounted socket P2RF-05 (UL E87929/CSA LR31928)



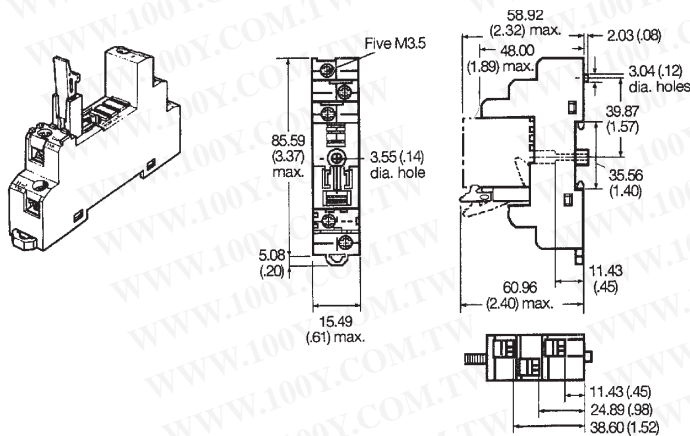
Terminal arrangement
(Top view)



Mounting holes
(for surface mounting)



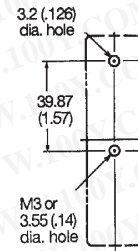
Track mounted socket P2RF-05-E (UL E87929/CSA LR31928)



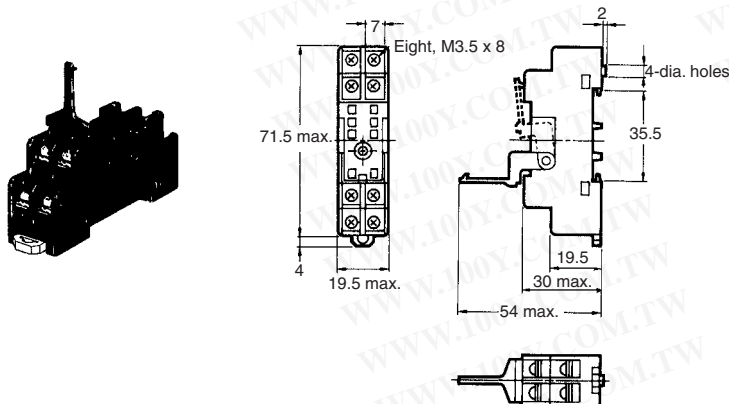
Terminal arrangement



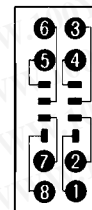
Mounting holes



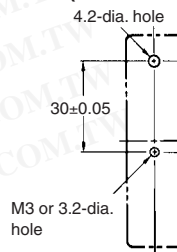
Track mounted socket P2RF-08 (UL E87929/CSA LR31928)



Terminal arrangement
(Top view)

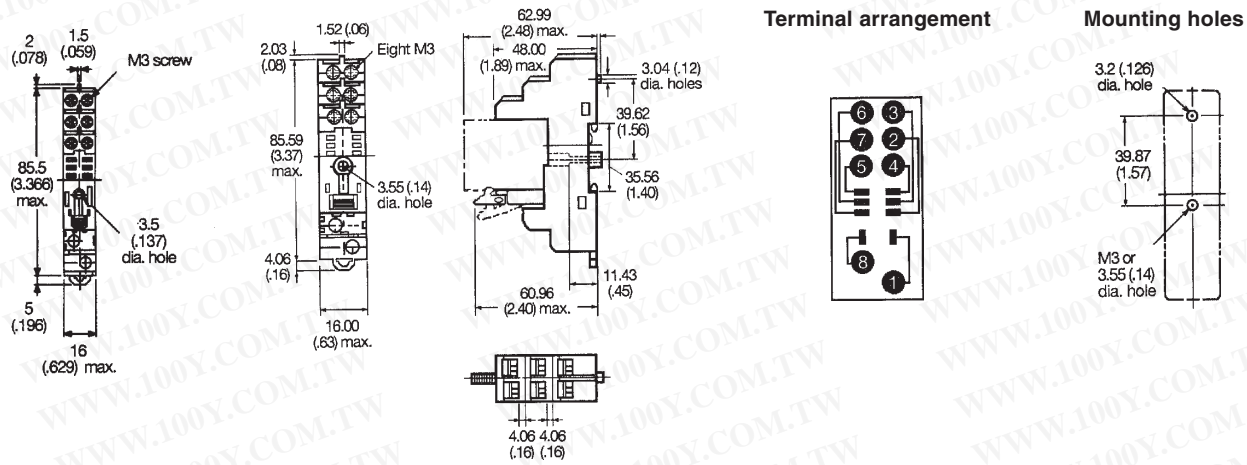




Mounting holes
(for surface mounting)



- Note: 1. and indicate mounting orientation marks.
 2. A tolerance of ±0.10 (0.004) applies to the above dimensions.

Track mounted socket
P2RF-08-E (UL E87929/CSA LR31928)

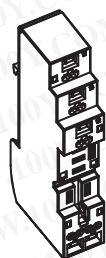


Note: 1.  and  indicate mounting orientation marks.
 2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

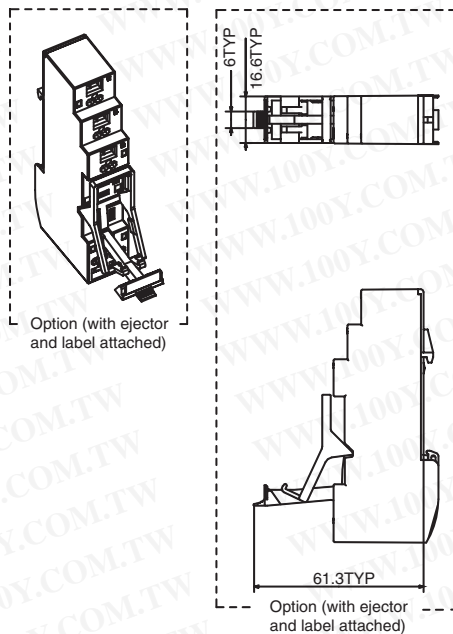
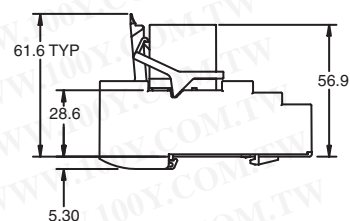
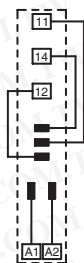
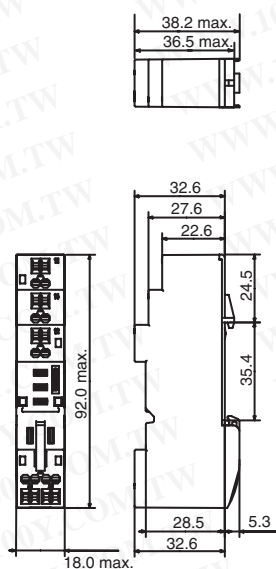
**Screwless Clamp Terminal Socket
P2RF-05-S (UL E8729/CSA LR31928)**

Terminal Arrangement

Mounting Height (with lever)



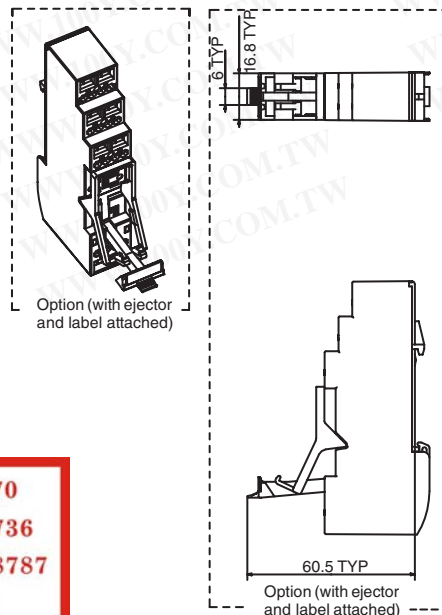
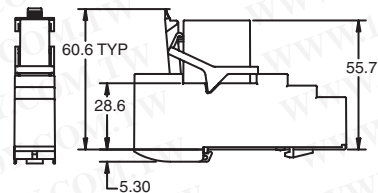
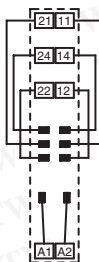
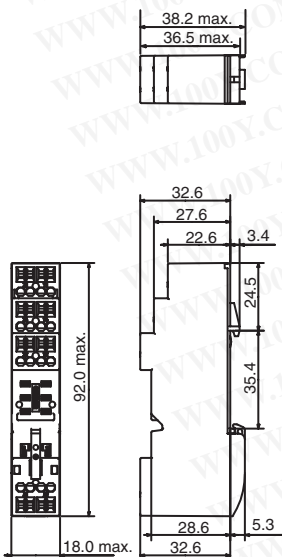
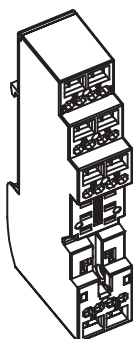
Standard Model



**Screwless Clamp Terminal Socket
P2RF-08-S (UL E8729/CSA LR31928)**

Terminal Arrangement

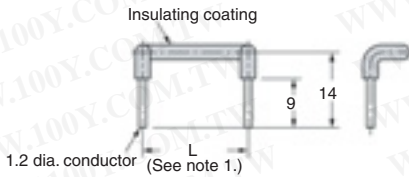
Mounting Height (with lever)



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勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Socket



Note: 1. The relationship between the model, the length L, and the color of the insulating coating is shown in the following table.

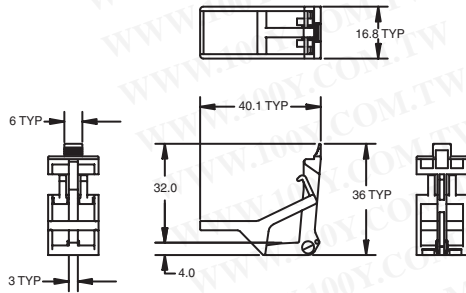
| Model | Length (L) mm | Color of insulating coating |
|---------|---------------|-----------------------------|
| P2RM-SR | 14.3 | Red |
| P2RM-SB | | Blue |

- 2. The insulating coating must be able to withstand a voltage of 3,000 V for 1 minute. Use either PE or PA as the material of the insulating coating.
- 3. The positions of the ends of the insulating coating must not vary more than 0.5 mm.

4. The characteristics of the socket bridge are shown in the following table.

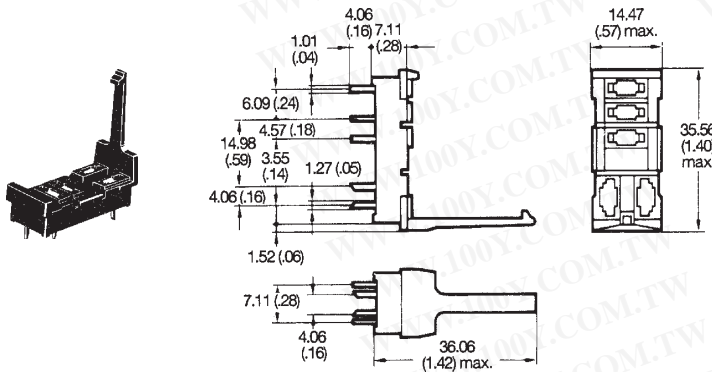
| Item | Characteristic |
|-------------------------------|------------------------|
| Rated ON current | 10 A |
| Rated insulation voltage | 250 VAC |
| Temperature rise | 35°C max. |
| Dielectric strength | 3,000 VAC for 1 minute |
| Ambient operating temperature | -55 to 70°C |

Clip and Release Lever



Back connecting socket

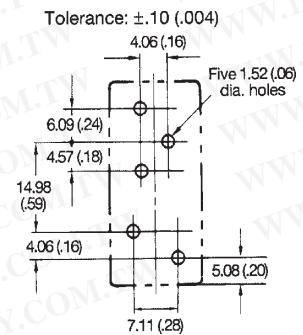
P2R-05P (1-pole) (UL E87929/CSA LR31928)



Terminal arrangement

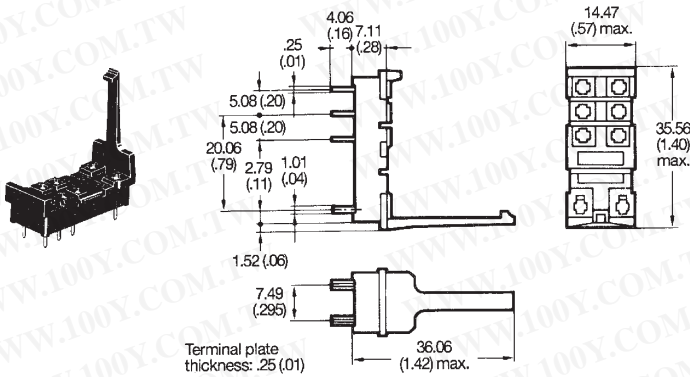


Mounting holes



- Note: 1.** and indicate mounting orientation marks.
- 2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

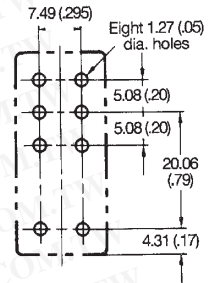
**Back connecting socket
 P2R-08P (2-pole) (UL E87929/CSA LR31928)**



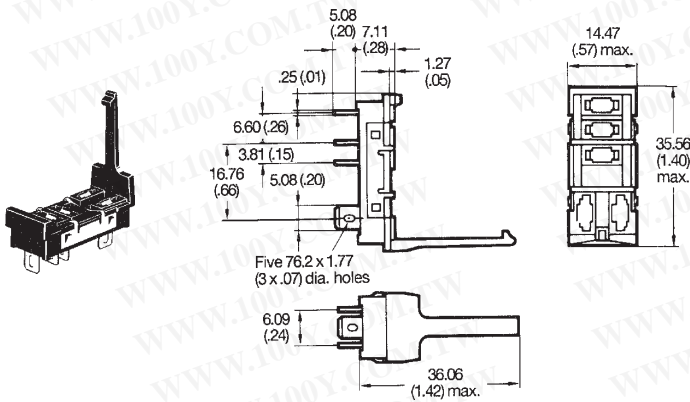
Terminal arrangement



Mounting holes



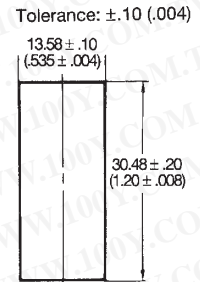
**Back connecting socket
 P2R-05A (1-pole) (UL E87929/CSA LR31928)**



Terminal arrangement

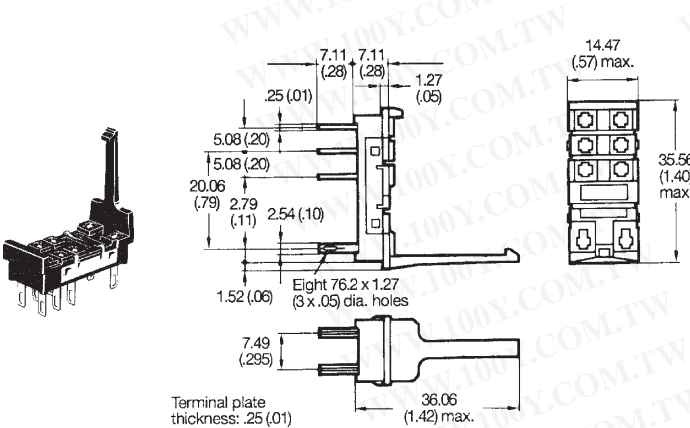


**Mounting holes
 (Bottom view)**

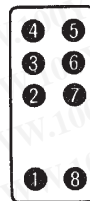


Recommended thickness of the panel is 1.52 (.06) to 2.03 (.08)

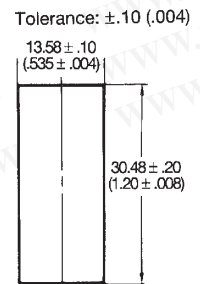
**Back connecting socket
 P2R-08A (2-pole) (UL E87929/CSA LR31928)**



Terminal arrangement



**Mounting holes
 (Bottom view)**



Recommended thickness of the panel is 1.52 (.06) to 2.03 (.08)

Note: 1. and indicate mounting orientation marks.
 2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

■ Approvals

UL (File No. E41643)/ CSA (File No. 31928)

| Type | Contact form | Coil rating | Contact ratings |
|--|--------------|------------------------------|---|
| G2R-1 G2R-14 G2R-1-H G2R-14-H G2R-1-S G2R-1-T | SPDT | 3 to 110 VDC 3 to 240 VDC | 10 A, 30 VDC (Resistive) 10 A, 250 VAC (General purpose) 10 A, 277 VAC (General purpose) TV-3, 120 VAC (NO contact) 360 WT, 120 VAC (Tungsten) 1/3 HP, 125 VAC (NO contact) 1/2 HP, 250 VAC (NO contact) 1/2 HP, 277 VAC (NO contact) TV-8, 120 VAC (NO contact, ASI contacts) B300 (Pilot duty) |
| G2R-1A G2R-1A4 G2R-1A-H G2R-1A4-H G2R-1A-T | SPST-NO | | |
| G2R-1-E | SPDT | 3 to 110 VDC 3 to 240 VAC | 20 A, 277 VAC (General purpose) 16 A, 30 VDC (Resistive) 16 A, 250 VAC (General purpose) 360 WT, 120 VAC (Tungsten) TV-3, 120 VAC (NO contact) 1/2 HP, 240 VAC 1 HP, 240 VAC TV-8, 120 VAC (No contact, ASI contacts) |
| G2R-1A-E | SPST-NO | | |
| G2R-2 G2R-24 G2R-2-H G2R-24-H G2R-2-S G2R-2-A G2R-2A4 G2R-2A-H G2R-2A4-H | DPDT | 3 to 110 VDC 3 to 240 VAC | 10 A, 30 VDC (Resistive) 10 A, 277 VAC (General purpose) 5 A, 250 VAC (General purpose) TV-3, 120 VAC (NO contact) 1/6 HP, 120 VAC 1/3 HP, 240 VAC 1/3 HP, 265 VAC 250 VA, 120 VAC (Pilot duty) B300 (Pilot duty) |
| G2RK-1 | SPDT | 3 to 24 VDC | 10 A, 30 VDC (Resistive) 10 A, 250 VAC (General purpose) TV-3 (NO contact) 1/6 HP, 120 VAC 1/2 HP, 120 VAC A300 (Pilot duty) |
| G2RK-1A | SPST-NO | | |
| G2RK-2 | DPDT | 3 to 24 VDC | 5 A, 30 VDC (Resistive) 5 A, 250 VAC (General purpose) TV-3 (NO contact) 1/6 HP, 120 VAC 1/3 HP, 240 VAC |
| G2RK-2A | DPST-NO | | |

Note: 1. The rated values approved by each of the safety standards (e.g., UL and CSA) may be different from the performance characteristics individually defined in this catalog.

2. In the interest of product improvement, specifications are subject to change.

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