

**SERIES:** PRY4 | **DESCRIPTION:** POWER RELAY

**FEATURES**

- 40 A
- epoxy sealed
- class F

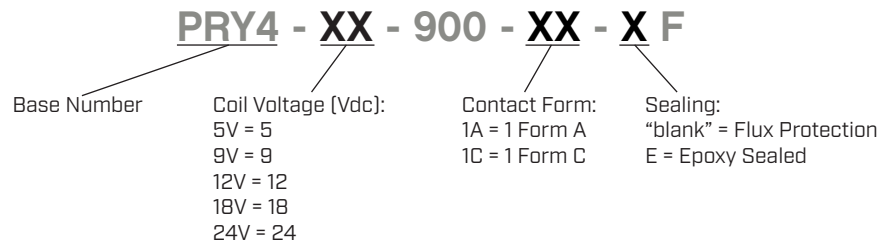


**MODEL**

| MODEL        | coil voltage | coil resistance | operating voltage | release voltage | coil power |
|--------------|--------------|-----------------|-------------------|-----------------|------------|
|              | typ (Vdc)    | (Ω±10%)         | min (Vdc)         | max (Vdc)       | typ (W)    |
| PRY4-5V-900  | 5            | 28              | 3.75              | 0.25            | 0.90       |
| PRY4-9V-900  | 9            | 90              | 6.75              | 0.45            | 0.90       |
| PRY4-12V-900 | 12           | 160             | 9.00              | 0.60            | 0.90       |
| PRY4-18V-900 | 18           | 360             | 13.50             | 0.90            | 0.90       |
| PRY4-24V-900 | 24           | 640             | 18.00             | 1.20            | 0.90       |

Notes: 1. Maximum voltage is 130% of nominal voltage.  
 2. Coil temperature rise 70 K max.  
 3. All specifications are measured at 23±5°C, RH 25-75% unless otherwise specified.

**PART NUMBER KEY**



## CONTACT SPECIFICATIONS

| parameter                | conditions/description  | min                  | typ | max    | units                    |
|--------------------------|---|----------------------|-----|--------|--------------------------|
| contact form             | 1 Form A, 1 Form C  |                      |     |        |                          |
| contact material         | Ag alloy  |                      |     |        |                          |
| contact rating           | 1 Form A<br>40 A @ 250 Vac NO   |                      |     |        |                          |
|                          | 1 Form C<br>30/20 A @ 250 Vac NO/NC<br>30/10 A @ 28 Vdc NO/NC   |                      |     |        |                          |
| contact temperature rise | at contact max rating   |                      |     | 50     | K                        |
| max switching voltage    |   |                      |     | 277    | Vac                      |
| max switching current    | 1 Form A  |                      |     | 40     | A                        |
|                          | 1 Form C  |                      |     | 30     | A                        |
| max switching power      | 1 Form A  |                      |     | 11,080 | VA                       |
|                          | 1 Form C  |                      |     | 8,310  | VA                       |
| life                     | 1 Form A<br>electrical: at 250 Vac/40 A, 1 second on, 9 seconds off<br>mechanical: 0.1 seconds on, 0.1 seconds off          | 50,000<br>1,000,000  |     |        | operations<br>operations |
|                          | 1 Form C<br>electrical: at 250 Vac/30/20 A NO/NC, 1 second on, 9 seconds off<br>mechanical: 0.1 seconds on, 0.1 seconds off | 100,000<br>1,000,000 |     |        | operations<br>operations |
|                          |   |                      |     |        |                          |
|                          |   |                      |     |        |                          |

## GENERAL SPECIFICATIONS

| parameter              | conditions/description  | min | typ   | max | units            |
|------------------------|---|-----|-------|-----|------------------|
| insulation resistance  | at 500 Vdc  | 100 |       |     | MΩ               |
| dielectric strength    | between open contacts for 1 minute                                |     | 1,500 |     | Vac              |
|                        | between coil and contacts for 1 minute                            |     | 2,500 |     | Vac              |
| coil insulation system | Class F   |     |       |     |                  |
| operate time           |   |     |       | 15  | ms               |
| release time           |   |     |       | 10  | ms               |
| shock resistance       | endurance: 3 shocks in each XYZ direction                         |     | 1,000 |     | m/s <sup>2</sup> |
|                        | misoperation: 3 shocks in each XYZ direction                      |     | 100   |     | m/s <sup>2</sup> |
| vibration resistance   | endurance: 10~55 Hz, 1.5 mm double amplitude for 2 hours          |     |       |     |                  |
|                        | misoperation: 10~55 Hz, 1.5 mm double amplitude for 5 minutes     |     |       |     |                  |
| operating temperature  |   | -40 |       | 105 | °C               |
| humidity               |   | 45  |       | 85  | %RH              |
| weight                 |   |     | 24    |     | g                |
| safety approvals       | UL/cUL 508  |     |       |     |                  |
| flammability rating    | UL94V-0   |     |       |     |                  |
| RoHS                   | yes   |     |       |     |                  |
| packaging              | carton size: 354 x 252 x 193 mm<br>carton QTY: 400 pcs per carton |     |       |     |                  |

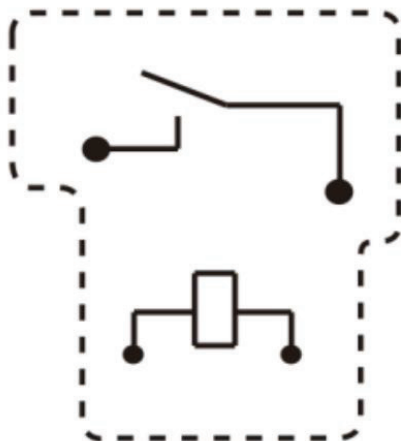
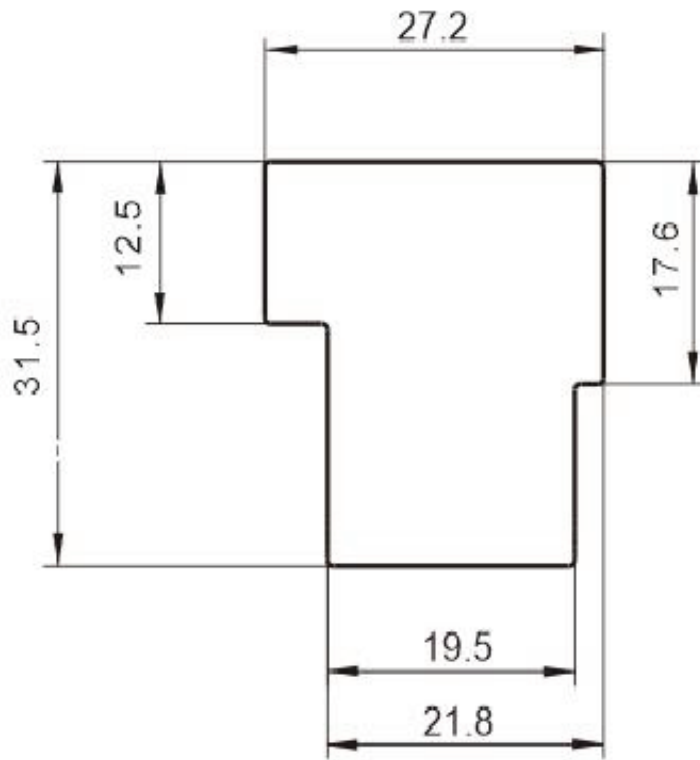
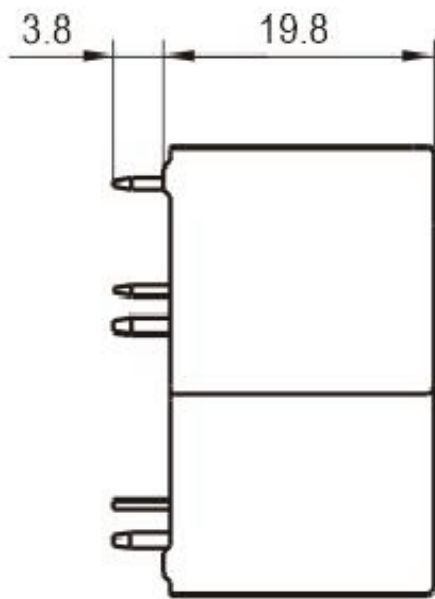
## SOLDERABILITY

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| wave soldering | for max 5 seconds      | 255 | 260 | 265 | °C    |

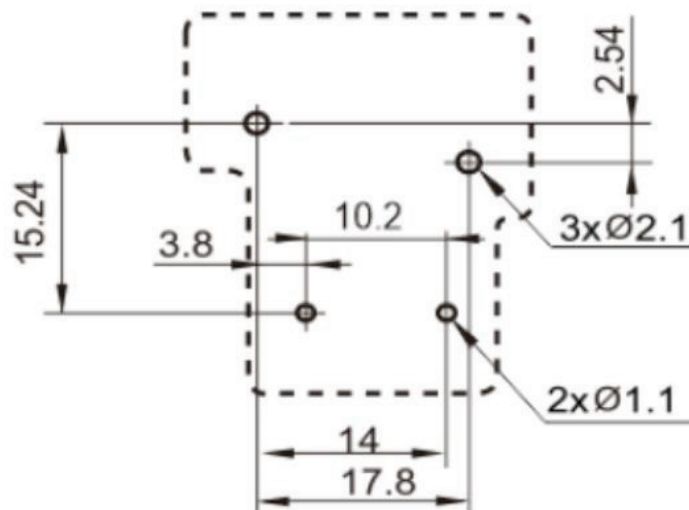
## MECHANICAL DRAWING (1 FORM A)

units: mm  
 tolerance:  
 X≤1: ±0.20 mm  
 1<X≤5: ±0.3 mm  
 X>5 mm: ±0.4 mm  
 PCB: ±0.10 mm  
 unless otherwise noted

| DESCRIPTION    | MATERIAL      | PLATING/COLOR |
|----------------|---------------|---------------|
| housing        | PBT [UL94V-0] | black         |
| terminals      | copper alloy  | tin           |
| coil terminals | enameled wire |               |



Wiring Diagram  
Bottom View

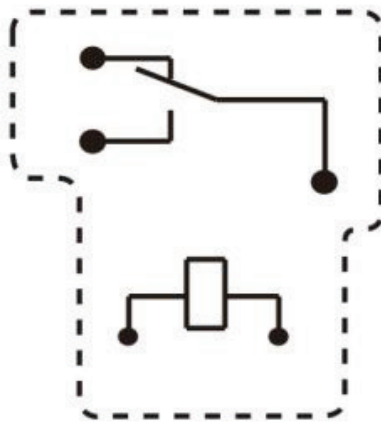
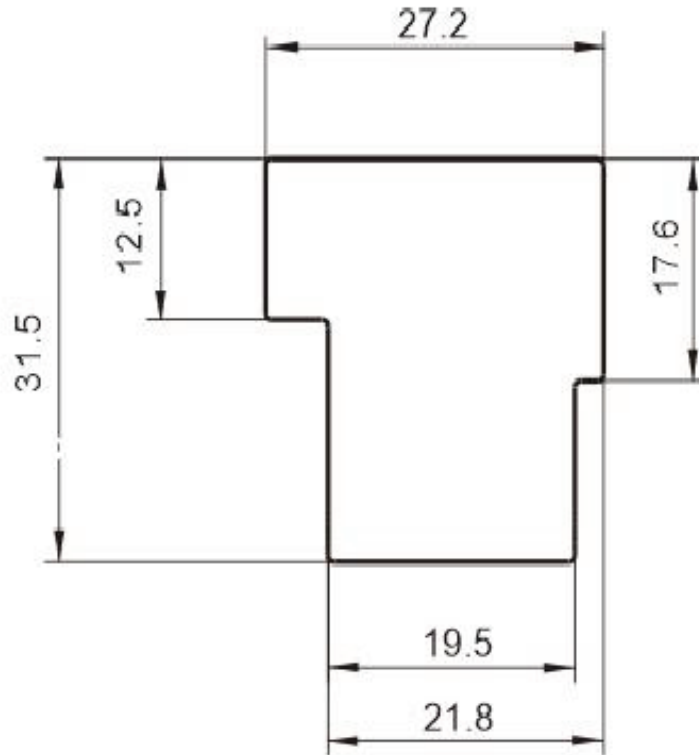
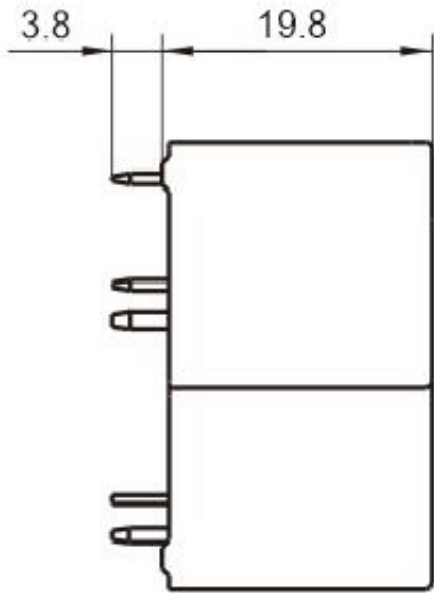


Recommended PCB Layout  
Bottom View

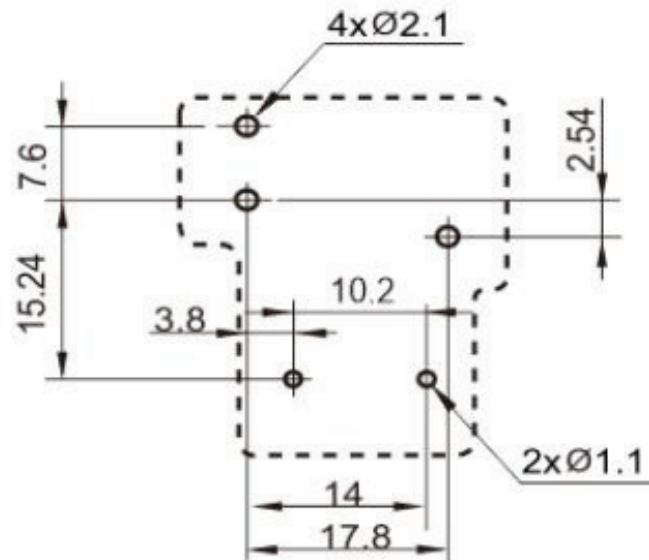
## MECHANICAL DRAWING (1 FORM C)

units: mm  
 tolerance:  
 X≤1: ±0.20 mm  
 1<X≤5: ±0.3 mm  
 X>5 mm: ±0.4 mm  
 PCB: ±0.10 mm  
 unless otherwise noted

| DESCRIPTION    | MATERIAL      | PLATING/COLOR |
|----------------|---------------|---------------|
| housing        | PBT [UL94V-0] | black         |
| terminals      | copper alloy  | tin           |
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Wiring Diagram  
Bottom View



Recommended PCB Layout  
Bottom View

## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 10/06/2025 |

The revision history provided is for informational purposes only and is believed to be accurate.



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