## OmROn

## General-purpose Relay <br> MY

## An Improved Miniature Power Relay with Many Models for Sequence Control and Power Applications

- A wide range of relay variations including ones with operation indicators, high-capacity capability, built-in diodes, etc.
- Arc barrier standard on 3- and 4-pole relays.
- Withstand voltage: 2,000 VAC.



## Ordering Information

| Type | Contact form | Plug-in socket/solder terminals$\square$$\qquad$ |  | PCB terminals | Upper-mounting/ solder terminals |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Standard | SPDT | *MY1 | - | *MY1-02 | MY1F |
|  | DPDT | MY2 | MY2N | MY2-02 | MY2F |
|  | DPDT (bifurcated) | MY2Z | MY2ZN | MY2Z-02 | MY2ZF |
|  | 3PDT | MY3 | MY3N | MY3-02 | MY3F |
|  | 4PDT | MY4 | MY4N | MY4-02 | MY4F |
|  | 4PDT (bifurcated) | MY4Z | MY4ZN | MY4Z-02 | MY4ZF |
| With built-in diode (DC only) | DPDT | MY2-D | MY2N-D2 | -_** | - |
|  | DPDT (bifurcated) | MY2Z-D | MY2ZN-D2 | - | - |
|  | 3PDT | MY3-D | MY3N-D2 | - | - |
|  | 4PDT | MY4-D | MY4N-D2 | - | - |
|  | 4PDT (bifurcated) | MY4Z-D | MY4ZN-D2 | - | - |
| With built-in CR (AC only) | DPDT | MY2-CR | MY2N-CR | - | Not available. |
|  | DPDT (bifurcated) | MY2Z-CR | - | - |  |
|  | 3PDT | MY3-CR | - | - |  |
|  | 4PDT | MY4-CR | MY4N-CR | - |  |
|  | 4PDT (bifurcated) | MY4Z-CR | - | - |  |
| With test button | DPDT | MY214 | MY2I4N | - | - |
|  | 4PDT | MY4I4 | MY4I4N | - | - |


| Type | Contact form | Plug-in socket/solder terminals |  | PCB terminals ! | Upper-mounting/ solder terminals |
| :---: | :---: | :---: | :---: | :---: | :---: |
| High-humidity | DPDT | MY2-TU | - | - | - |
|  | DPDT (bifurcated) | MY2Z-TU | - | - | - |
|  | 3PDT | MY3-TU | - | - | - |
|  | 4PDT | MY4-TU | MY4N-TU | - | - |
|  | 4PDT (bifurcated) | MY4Z-TU | - | - | Not available. |
| High-capacity (7 A) | DPDT | MY2-Y | MY2N-Y | - |  |
| High-sensitivity | 3PDT | MYC3 | Not available | MYC3-02 |  |

Note: 1. When ordering, add the rated coil voltage to the model number. Rated coil voltages are given in the coil ratings table. Example: MY2, 6 VAC

Rated coil voltage
*2. Models mark with an asterisk are not available with international safety standard ratings.
3. Add "-G" to the model number if mounting studs are required (e.g., MY4-G).
4. The standard contacts for MY2Z-series Relays and for the MY4Z are gold-plated.
**5. Models denoted by "-_" will be manufactured upon request. Ask your OMRON representative.
6. The following variations are also available.

Plastic-sealed relays (MYQ4): See page 46.
Latching relays (MY2K): See page 51.
Hermetically sealed relays (MY4H): Ask your OMRON representative.

## ■ Accessories (Order Separately)

## Sockets

| Poles | Front-mounting socket (DIN-rail/screw mounting) | Back-mounting socket |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Solder terminals |  | Wire-wrap terminals |  | PCB <br> terminals |
|  |  | W/ clip | W/o clip | W/ clip | W/o clip |  |
| 1 or 2 | PYF08A-E, PYF08A, PYF08A-N (finger protection) | PY08 | PY08-Y1 | PY08QN | PY08QN-Y1 | PY08-02 |
| 3 | PYF11A-E, PYF11A | PY11 | PY11-Y1 | PY11QN | PY11QN-Y1 | PY11-02 |
| 4 | $\begin{aligned} & \text { PYF14A-E, PYF14A } \\ & \text { PYF14A-N (finger protection) } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { PY14 } \\ \text { PY14-3* } \\ \hline \end{array}$ | PY14-Y1 | PY14QN | PY14QN-Y1 | PY14-02 |

Note: *1.Equipped with operation check terminal.
2. The PYF08A(-E), PYF11A(-E), and PYF14A(-E) have been approved as individual sockets by UL S08 and CSA C22.2.

## Mounting Plates for Sockets

| Socket model | For 1 socket | For 18 sockets | For 36 sockets |
| :--- | :--- | :--- | :--- |
| PY08, PY11, PY14, PY08QN(2), <br> PY11QN(2), PY14QN(2) | PYP-1 | PYP-18 | PYP-36 |

Note: PYP-18 and PYP-36 can be cut into any desired length in accordance with the number of sockets.

## Socket Hold-down Clip Pairing

| Relay type | Poles |  |  | Back-connecting sockets |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Solder/wire-wrap terminals |  | PCB terminals |  |
|  |  | Socket | Clip | Socket | Clip | Socket | Clip |
| Standard, bifurcated contacts, operation indicator, built-in diode, high-capacity, high-sensitivity, or high-humidity | 1,2 | $\begin{aligned} & \text { PYF08A-N, } \\ & \text { PYF08A-E, } \\ & \text { PYF08A } \end{aligned}$ | PYC-A1 | PY08(QN) | PYC-P | PY08(QN) | PYC-P |
|  | 3 | PYF11A |  | PY11(QN) |  | PY11(QN) |  |
|  | 4 | $\begin{aligned} & \text { PYF14A-N, } \\ & \text { PYF14A-E, } \\ & \text { PYF14A } \end{aligned}$ |  | PY14(QN) |  | PY14(QN) |  |
| MY2N-D4 | 4 | $\begin{aligned} & \text { PYF14A-N, } \\ & \text { PYF14A-E, } \\ & \text { PYF14A } \end{aligned}$ | Y92H-3 | PY14(QN) | PYC-1 | PY08(QN) | PYC-1 |
| Test button | 1,2 | $\begin{aligned} & \text { PYF08A-N, } \\ & \text { PYF08A-E, } \\ & \text { PYF08A } \end{aligned}$ | PYC-A1 | PY08(QN) | PYC-P2 | PY08(QN) | PYC-P2 |
|  | 3 | PYF11A |  | PY11(QN) |  | PY11(QN) |  |
|  | 4 | $\begin{aligned} & \text { PYF14A-N, } \\ & \text { PYF14A-E, } \\ & \text { PYF14A } \end{aligned}$ |  | PY14(QN) |  | PY14(QN) |  |
| CR circuit | 1, 2 | $\begin{aligned} & \text { PYF08A-N, } \\ & \text { PYF08A-E, } \\ & \text { PYF08A } \end{aligned}$ | Y92H-3 | PY08(QN) | PYC-1 | PY08(QN) | PYC-1 |
|  | 3 | PYF11A |  | PY11(QN) |  | PY11(QN) |  |
|  | 4 | $\begin{aligned} & \text { PYF14A-N, } \\ & \text { PYF14A-E, } \\ & \text { PYF14A } \end{aligned}$ |  | PY14(QN) |  | PY14(QN) |  |

## Specifications

## ■ Coil Ratings

| Rated voltage |  | Rated current |  | Coil resistance | Inductance (reference value) |  | Must operate | Must release | Max. voltage | Power consum. (Approx.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 50 Hz | 60 Hz |  | Arm. OFF | Arm. ON | \% of rated voltage |  |  |  |
| AC | 6 V | 214.1 mA | 183 mA | $12.2 \Omega$ | 0.04 H | 0.08 H | $\begin{aligned} & \hline 80 \% \\ & \max . \end{aligned}$ | $\begin{aligned} & 30 \% \\ & \text { min. } \end{aligned}$ | 110\% | $\begin{aligned} & \hline 1.0 \mathrm{to} \\ & 1.2 \mathrm{VA} \\ & (60 \mathrm{~Hz}) \end{aligned}$ |
|  | 12 V | 106.5 mA | 91 mA | $46 \Omega$ | 0.17 H | 0.33 H |  |  |  |  |
|  | 24 V | 53.8 mA | 46 mA | $180 \Omega$ | 0.69 H | 1.30 H |  |  |  |  |
|  | 50 V | 25.7 mA | 22 mA | $788 \Omega$ | 3.22 H | 5.66 H |  |  |  |  |
|  | 100/110 V | 11.7/12.9 mA | 10/11 mA | $3,750 \Omega$ | 14.54 H | 24.6 H |  |  |  | 0.9 to 1.1 VA $(60 \mathrm{~Hz})$ |
|  | 110/120 V | 9.9/10.8 mA | 8.4/9.2 mA | $4,430 \Omega$ | 19.20 H | 32.1 H |  |  |  |  |
|  | 200/220 V | 6.2/6.8 mA | $5.3 / 5.8 \mathrm{~mA}$ | 12,950 $\Omega$ | 54.75 H | 94.07 H |  |  |  |  |
|  | 220/240 V | 4.8/5.3 mA | 4.2/4.6 mA | 18,790 $\Omega$ | 83.50 H | 136.40 H |  |  |  |  |
| DC | 6 V | 150 mA |  | $40 \Omega$ | 0.17 H | 0.33 H |  | $\begin{aligned} & 10 \% \\ & \mathrm{~min} . \end{aligned}$ |  | 0.9 W |
|  | 12 V | 75 mA |  | $160 \Omega$ | 0.73 H | 1.37 H |  |  |  |  |
|  | 24 V | 36.9 mA |  | $650 \Omega$ | 3.20 H | 5.72 H |  |  |  |  |
|  | 48 V | 18.5 mA |  | 2,600 $\Omega$ | 10.60 H | 21.00 H |  |  |  |  |
|  | 100/110 V | 9.1/10 mA |  | 11,000 $\Omega$ | 45.60 H | 86.20 H |  |  |  |  |

Note: See notes under next table on next page.

High-sensitivity Relays

| Power supply ratings |  |  |  |  | Input ratings |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Voltage | Current | Coil <br> resistance | Max. <br> voltage* | Power consum. | Input <br> voltage | Must <br> operate | Must <br> release | Power <br> consum. |
| $\%$ of rated voltage |  |  |  |  |  |  |  |  |

Note: 1. The rated current and coil resistance are measured at a coil temperature of $23^{\circ} \mathrm{C}$ with tolerances of $+15 \% /-20 \%$ for rated currents and $\pm 15 \%$ for DC coil resistance.
2. Performance characteristic data are measured at a coil temperatures of $23^{\circ} \mathrm{C}$.
3. The must operate and must release voltages for High-sensitivity Relays was measured at the rated power supply voltage.
4. AC coil resistance and impedance are provided as reference values (at 60 Hz ).
5. Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.

## $\square$ Contact Ratings

| Item | Single-, double- or three-pole |  | Four-pole and High-sensitivity |  | High-capacity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Resistive load ( $\operatorname{cosf}=1$ ) | Inductive load ( $\operatorname{cosf}=0.4$, $\mathrm{L} / \mathrm{R}=7 \mathrm{~ms}$ ) | Resistive load ( $\operatorname{cosf}=1$ ) | Inductive load ( $\operatorname{cosf}=0.4$, $\mathrm{L} / \mathrm{R}=7 \mathrm{~ms}$ ) | Resistive load $(\operatorname{cosf}=1)$ | Inductive load (cosf=0.4, $\mathrm{L} / \mathrm{R}=7 \mathrm{~ms}$ ) |
| Rated load | $\begin{aligned} & 5 \text { A, } 220 \text { VAC } \\ & 5 \text { A, } 24 \text { VDC } \end{aligned}$ | $\begin{aligned} & 2 \text { A, } 220 \text { VAC } \\ & 2 \text { A, } 24 \text { VDC } \end{aligned}$ | $\begin{aligned} & 3 \text { A, } 220 \text { VAC } \\ & 3 \text { A, } 24 \text { VDC } \end{aligned}$ | $\begin{aligned} & \text { 0.8 A, } 220 \mathrm{VAC}) \\ & 1.5 \mathrm{~A}, 24 \mathrm{VDC} \end{aligned}$ | $\begin{aligned} & 7 \text { A, } 220 \text { VAC } \\ & 7 \text { A, } 24 \text { VDC } \end{aligned}$ | $\begin{aligned} & \text { 3.5 A, } 220 \text { VAC } \\ & 3.5 \text { A, } 24 \text { VDC } \end{aligned}$ |
| Carry current | 5 A |  | 3 A |  | 7 A |  |
| Max. switching voltage | $\begin{aligned} & 250 \text { VAC } \\ & 125 \text { VDC } \end{aligned}$ |  | $\begin{aligned} & 250 \text { VAC } \\ & 125 \text { VDC } \end{aligned}$ |  | $\begin{aligned} & 250 \text { VAC } \\ & 125 \text { VDC } \end{aligned}$ |  |
| Max. switching current | 5 A | 5 A | 3 A | 3 A | 7 A | 7 A |
| Max. switching capacity | $\begin{aligned} & 1,100 \mathrm{VA} \\ & 120 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 440 \mathrm{VA} \\ & 48 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 660 \text { VA } \\ & 72 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 176 \mathrm{VA} \\ & 36 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1,540 \mathrm{VA} \\ & 168 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \hline 770 \mathrm{VA} \\ & 84 \mathrm{~W} \end{aligned}$ |
| Min. permissible load* | Standard type: $100 \mathrm{~mA}, 5$ VDC Bifurcated type: $100 \mu \mathrm{~A}, 1$ VDC |  | Standard and high sensitivity types: 1 <br> mA, 1 VDC <br> Bifurcated type: $100 \mu \mathrm{~A}, 1 \mathrm{VDC}$ |  |  |  |

*Note: P level: $\lambda_{60}=0.1 \times 10^{-6} /$ operation, reference value

## ■ Characteristics

| Item | All relays but High-sensitivity Relays | High-sensitivity Relays |
| :---: | :---: | :---: |
| Contact resistance | $50 \mathrm{~m} \Omega$ max. |  |
| Operate time | 20 ms max . |  |
| Release time | 20 ms max. |  |
| Max. operating frequency | Mechanical: $\quad 18,000$ operations $/ \mathrm{hr}$Electrical: $\quad 1,800$ operations $/ \mathrm{hr}$ (under rated load) |  |
| Insulation resistance | 1,000 M 2 min. (at 500 VDC ) |  |
| Dielectric withstand voltage | 2,000 VAC, $50 / 60 \mathrm{~Hz}$ for 1 min (1,000 VAC between contacts of same polarity) | 1,500 VAC, $50 / 60 \mathrm{~Hz}$ for 1 min (1,000 VAC between contacts of same polarity) |
| Vibration resistance | Destruction: 10 to $55 \mathrm{~Hz}, 1.0-\mathrm{mm}$ double amplitude Malfunction: 10 to $55 \mathrm{~Hz}, 1.0-\mathrm{mm}$ double amplitude |  |
| Shock resistance | Destruction: $1,000 \mathrm{~m} / \mathrm{s}^{2}$ (approx. 100G) <br> Malfunction: $200 \mathrm{~m} / \mathrm{s}^{2}$ (approx. 20G) |  |
| Life expectancy | See following table. |  |
| Ambient operating temperature* | Single- and double-pole standard, bifurcated-contact, test-button, and high-humidity relays: $-55^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ (with no icing) <br> All other relays: $-55^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ (with no icing) |  |
| Ambient operating humidity | 35\% to 85\% |  |
| Weight | Approx. 85 g |  |

Note: The values given above are initial values.

Life Expectancy Characteristics

| Relays | Mechanical life <br> (at 18,000 operations/hr) | Electrical life <br> (at 1,800 operations/hr under rated load) |
| :--- | :--- | :--- |
| Normal, High-humidity, With test button (except relays <br> with operation indicator), With CR | AC $50,000,000$ operations min. <br> DC: $100,000,000$ operations min. | 1-,2-,3-pole: 500,000 operations min. <br> 4-pole: <br> 200,000 operations min. |
| High-capacity | AC $50,000,000$ operations min. <br> DC: $100,000,000$ operations min. | 500,000 operations min. |
| With operation indicator or built-in diode | AC $50,000,000$ operations min. |  |
| DC: 100,000,000 operations min. | $1-, 2-, 3-$ pole: 500,000 operations min. <br> 4-pole: <br> 200,000 operations min. |  |
| With bifurcated contacts | 2-pole: $50,000,000$ operations min. <br> 4-pole: $20,000,000$ operations min. | 2-pole: 200,000 operations min. <br> 4-pole: 100,000 operations min. |
| High-sensitivity | $100,000,000$ operations min. | 200,000 operations min. |

Note: See following tables for real load life expectancies.

## - Life Expectancies Under Real Loads

## MY2

| Rated voltage | Load type | Conditions | Operating frequency | Electrical life |
| :---: | :---: | :---: | :---: | :---: |
| 100 VAC | AC motor | $50 \mathrm{~W}, 100$ VAC single-phase with 2.8-A inrush current, 0.4-A carry current | ON for 2 s , OFF for 30 s | 100,000 operations |
|  |  | 50 W, 100 VAC single-phase with 1.6-A inrush current, 1-A carry current | ON for 1 s , OFF for 30 s | 300,000 operations |
|  | AC solenoid | 24 W with 1-A carry current | ON for 1.5 s , OFF for 1.5 s | 4,000,000 operations |

## MY2E

| Rated voltage | Load type | Conditions | Operating frequency | Electrical life |
| :--- | :--- | :--- | :--- | :---: |
| 24 VDC | AC lamp | 300 W with 50-A inrush current, 3-A <br> carry current | ON for 5 s, OFF for 55 s | 55,000 operations |

MY4

| Rated voltage | Load type | Conditions | Operating frequency | Electrical life |
| :---: | :---: | :---: | :---: | :---: |
| 100 VAC | AC solenoid | 50 VA with 2-A inrush current, 0.7 A carry current | ON for 1 s , OFF for 3 s | 25,000 operations |
|  | DC magnetic switch | 25 W with $\mathrm{L} / \mathrm{R}=40 \mathrm{~ms}, 0.2-\mathrm{A}$ carry current |  |  |
|  | AC magnetic switch | 35 VA with 1.5-A inrush current, 0.35-A carry current |  | 500,000 operations |
| 24 VDC | DC solenoid | 40 W with $\mathrm{L} / \mathrm{R}=10 \mathrm{~ms}$, 1.6-A carry current | ON for 0.5 s , OFF for 1.5 s | 5,000,000 operations |
|  |  | 30 W with $\mathrm{L} / \mathrm{R}=10 \mathrm{~ms}$ with $0.34-\mathrm{A}$ carry current | ON for 0.5 s , OFF for 1.5 s | 6,000,000 operations |

## Approved by Standards

Some MY Relays are available in models meeting various safety standards. When ordering, you must specify the desired standards. Refer to Ordering Information for specific models. Note that the rating recognized by the various standards sometimes vary from the ratings of the individual relays.
UL 508 Recognitions (File No. 41515)

| No. of poles | Coil ratings | Contact ratings |
| :---: | :---: | :---: |
| 2 | 6 to 240 VAC 6 to 120 VDC | 5 A, 120 VAC resistive load 5 A, 28 VDC resistive load 5 A, 240 VAC inductive load |
| 3 |  | 5 A, 28 VDC resistive load 5 A, 240 VAC inductive load |
| 4 | 6 to 240 VAC 6 to 120 VDC | 3 A 28 VDC resistive load 3 A 120 VAC inductive load 1.5 A, 240 VAC inductive load 5 A, 240 VAC inductive load (between contacts of same polarity) <br> 5 A, 28 VDC resistive load (between contacts of same polarity) <br> 0.2 A, 120 VDC |

CSA 22.2 No. 0 and No. 14 (File No. LR31928)

| Model | $\begin{aligned} & \begin{array}{l} \text { No. of } \\ \text { poles } \end{array} \end{aligned}$ | $\begin{gathered} \text { Coil } \\ \text { ratinas } \end{gathered}$ | Contact ratings |
| :---: | :---: | :---: | :---: |
| MY $\square$ | 2, 3 | $\begin{aligned} & \hline 6 \text { to } 240 \\ & \text { VAC } \\ & 6 \text { to } 120 \\ & \text { VDC } \end{aligned}$ | 5 A, 28 VDC resistive load <br> 5 A, 240 VAC inductive load |
|  | 4 |  | $3 \mathrm{~A}, 28 \mathrm{VDC}$ resistive <br> load <br> $3 \mathrm{~A}, 240 \mathrm{VAC}$ inductive <br> load <br> $5 \mathrm{~A}, 240 \mathrm{VAC}$ inductive <br> load (between contacts <br> of same polarity) <br> $5 \mathrm{~A}, 28 \mathrm{VDC}$ resistive <br> load (between contacts <br> of same polarity) <br> $0.2 \mathrm{~A}, 120$ VDC |

## Engineering Data

## ■ Maximum Switching Capacity

SEV

| Model | No. of <br> poles | Coil <br> ratings | Contact ratings |
| :--- | :--- | :--- | :--- |
| MY $\square$ | 2,3 | 6 to 100 | $5 \mathrm{~A}, 200 \mathrm{VAC}$ |
|  |  | VDC | $5 \mathrm{~A}, 24 \mathrm{VDC}$ |
|  |  | to 220 <br> VAC |  |

LR (No. 563KOB-204524)

| Model | No. of poles | Coil ratings | Contact ratings |
| :---: | :---: | :---: | :---: |
| MY $\square$-LR | 2 | 6 to 240 <br> VAC <br> 6 to 120 <br> VDC | 2 A, 30 VDC inductive load 2 A, 200 VAC inductive load |
|  | 4 |  | 1.5 A, 30 VDC inductive load 0.8 A, 200 VAC inductive load 1.5 A, 115 VAC inductive load |



## MY2-Y



## MY4, MY4Z



## ■ Life Expectancy



MY4 (Resistive Loads)


MY1, MY2, MY3 (Inductive Loads)


## MY4 (Inductive Loads)



## MY4Z (Resistive Loads)



MY2-Y (Resistive Loads)


MY4Z (Inductive Loads)


MY2-Y (Inductive Loads)


## Dimensions

Note: All units are in millimeters unless otherwise indicated.

## Relays with Solder Terminals

MY1


-


Terminal arrangement/internal connections (bottom view)


MY2, MY2-TU, MY2N, MY2N-D2

$+2.6$

Eight, 1.2 dia. x 2.2 ellipse holes


MY2N

## Standard



DC type


AC type


Note: 1. AC type is equipped with a coil disconnection self-diagnostic function.
2. Pay due attention as DC type has polarity.

MY2N-D2


## MY3, MY3-TU, MY3N, MY3N-D2, MYC3



Note: 1. AC type is equipped with a coil disconnection selfdiagnostic function.
2. Do not reverse the polarity of DC relays.

MYC3

Coil connections


Note: The MYC3 High-sensitivity Relay incorporates a semi-conductor. A surge-absorb element should be attached to it if the relay is used with a load that can generate noise, or a surge current cannot be avoided in the circuit.

## MY4, MY4-TU



## Terminal arrangement/internal connections <br> (bottom view)

|  | MY4N |  |
| :---: | :---: | :---: |
| Standard | DC type | AC type |



Note: 1. AC type is equipped with a coil disconnection selfdiagnostic function.
2. Do not reverse the polarity of $D C$ relays


Note: 1. Mount the relay with a socket.
Mounting holes
2. The above dimensions are for -G type relays (with mounting studs).
3. Test button

14: AC with red push button
DC with blue push button


Note: The terminal arrangement and internal connections of the above relays are as same as these of MY $\square$ relays.

MY $\square(N)$-CR, MY $\square(Z)-C R, ~ M Y 4 N-D 4$


MY4N-D4


## ■ Relays with PCB Terminals

MY $\square-02$


Note: 1. The figures in the parentheses are for MY4-02.
Note: The tolerance is $\pm 0.1$.
2. The above dimensions also apply to the SPDT, DPDT, and 3PDT relays.
4. The internal connections of the above relays are as same as these of MY $\square$ relays.

## - Upper-mounting Relays



Note: 1. The above dimensions also apply to the SPDT, DPDT, and 3PDT relays.
2. The internal connections of the above relays are as same as these of MY $\square$ relays.

## - Mounting Height with Socket

DIN rail/surface-mounting socket
Back-mounting socket


Note: 1. The PTF-A can be rail-mounted or screw-mounted.
2. For the MY $\square-C R$ (CR circuit built-in type) model, figure in the parentheses apply.
3. PYC-P hold down clip should be used with PYF08M.

## - Sockets



## Mounting Plates for Sockets



## Hold-down Clips

Hold-down clips are used to hold relays to sockets and prevent them from coming loose due to vibration or shock.

| Connection to socket |  | Connection to <br> mounting plate | For relays with test <br> buttons | For relays with CR circuits |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| PYC-A1 | PYC-P | PYC-S | PYC-P2 | Y92H-3 | PYC-1 |

PY14-3 (for 4PDT) with operation check terminal



■ Safety Standards for Sockets

| Item | Standards | File No. |
| :--- | :--- | :--- |
| PYF08A (-E), PYF11A | UL508 | E87929 |
| PYF14A (-E) | CSA22.2 | LR31928 |

## Precautions

## - Connections

Do not reverse polarity when connecting DC-operated relays with built-in diodes or indicators or high-sensitivity DC-operated relays.

## - Mounting

- Whenever possible, mount relays so that it is not subject to vibration or shock in the same direction as that of contact movement.
- The test button should be be pointed upwards when mounting (refer to the right figure).



## ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

Cat. No. J01-E1-11 In the interest of product improvement, specifications are subject to change without notice.

## OMRON Corporation

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