

General-purpose Relay

MY New model

Versatile and Function-filled Miniature Power Relay for Sequence Control and Power Switching Applications

- Models with lockable test buttons now available.
- Many variations possible through a selection of operation indicators (mechanical and LED indicators), lockable test button, built-in diode and CR (surge suppression), bifurcated contacts, etc.
- Arc barrier standard on 4-pole Relays.
- Dielectric strength: 2,000 VAC (coil to contact)
- Environment-friendly cadmium-free contacts.
- Safety standard approvals obtained.
- Wide range of Sockets (PY, PYF Series) and optional parts are available.
- Max. Switching Current: 2-pole: 10 A, 4-pole: 5 A
- Provided with nameplate.



Ordering Information

■ Relays

Standard Coil Polarity

| Type | Contact form | Plug-in socket/Solder terminals | | Without LED indicator |
|--|-------------------|---------------------------------|---|-----------------------|
| | | Standard with LED indicator | With LED indicator and lockable test button | |
| Standard | DPDT | MY2N | MY2IN | MY2 |
| | 4PDT | MY4N | MY4IN | MY4 |
| | 4PDT (bifurcated) | MY4ZN | MY4ZIN | MY4Z |
| With built-in diode (DC only) | DPDT | MY2N-D2 | MY2IN-D2 | --- |
| | 4PDT | MY4N-D2 | MY4IN-D2 | --- |
| | 4PDT (bifurcated) | MY4ZN-D2 | MY4ZIN-D2 | --- |
| With built-in CR (220/240 VAC, 110/120 VAC only) | DPDT | MY2N-CR | MY2IN-CR | --- |
| | 4PDT | MY4N-CR | MY4IN-CR | --- |
| | 4PDT (bifurcated) | MY4ZN-CR | MY4ZIN-CR | --- |

Reverse Coil Polarity

| Type | Contact form | Plug-in socket/Solder terminals | |
|-------------------------------|-------------------|---------------------------------|---|
| | | With LED indicator | With LED indicator and lockable test button |
| Standard (DC only) | DPDT | MY2N1 | MY2IN1 |
| | 4PDT | MY4N1 | MY4IN1 |
| | 4PDT (bifurcated) | MY4ZN1 | MY4ZIN1 |
| With built-in diode (DC only) | DPDT | MY2N1-D2 | MY2IN1-D2 |
| | 4PDT | MY4N1-D2 | MY4IN1-D2 |
| | 4PDT (bifurcated) | MY4ZN1-D2 | MY4ZIN1-D2 |

Note: When ordering, add the rated coil voltage and “(s)” to the model number. Rated coil voltages are given in the coil ratings table.

Example: MY2 6VAC (S)
 ↑ └── New model
 Rated coil voltage

■ Accessories (Order Separately)

Sockets

| Poles | Front-mounting Socket (DIN-track/ screw mounting) | Back-mounting Socket | | | | |
|-------|---|----------------------|-----------|---------------------|-------------------------|---------------|
| | | Solder terminals | | Wire-wrap terminals | | PCB terminals |
| | | Without clip | With clip | Without clip | With clip | |
| 2 | PYF08A-E PYF08A-N | PY08 | PY08-Y1 | PY08QN PY08QN2 | PY08QN-Y1 PY08QN2-Y1 | PY08-02 |
| 4 | PYF14A-E PYF14A-N | PY14 | PY14-Y1 | PY14QN PY14QN2 | PY14QN-Y1 PY14QN2-Y1 | PY14-02 |

Socket Hold-down Clip Pairing

| Relay type | Poles | Front-connecting Socket (DIN-track/ screw mounting) | | Back-connecting Socket | | | |
|----------------------------|-------|---|--------|----------------------------|-----------------|---------------|-----------------|
| | | | | Solder/Wire-wrap terminals | | PCB terminals | |
| | | Socket | Clip | Socket | Clip | Socket | Clip |
| Without 2-pole test button | 2 | PYF08A-E PYF08A-N | PYC-A1 | PY08(QN) | PYC-P PYC-P2 | PY08-02 | PYC-P PYC-P2 |
| | 4 | PYF14A-E PYF14A-N | | PY14(QN) | | PY14-02 | |
| 2-pole test button | 2 | PYF08A-E PYF08A-N | PYC-E1 | PY08(QN) | PYC-P2 | PY08-02 | PYC-P2 |

Mounting Plates for Sockets

| Socket model | For 1 Socket | For 18 Sockets | For 36 Sockets |
|----------------------------------|--------------|----------------|----------------|
| PY08, PY08QN(2), PY14, 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.

Track and Accessories

| | |
|--------------------------------------|---------------------|
| Supporting Track (length = 500 mm) | PFP-50N |
| Supporting Track (length = 1,000 mm) | PFP-100N, PFP-100N2 |
| End Plate | PFP-M |
| Spacer | PFP-S |

Specifications

■ Coil Ratings

| Rated voltage | Rated current | | Coil resistance | Coil inductance (reference value) | | Must operate voltage | Must release voltage | Max. voltage | Power consumption (approx.) | |
|---------------|---------------|------------------|------------------|-----------------------------------|---------|----------------------|----------------------|--------------|-----------------------------|-----------------------|
| | 50 Hz | 60 Hz | | Arm. OFF | Arm. ON | | | | | |
| AC | 6 V* | 214.1 mA | 183 mA | 12.2 Ω | 0.04 H | 0.08 H | 80% max. | 30% min. | 110% | 1.0 to 1.2 VA (60 Hz) |
| | 12 V | 106.5 mA | 91 mA | 46 Ω | 0.17 H | 0.33 H | | | | |
| | 24 V | 53.8 mA | 46 mA | 180 Ω | 0.69 H | 1.30 H | | | | |
| | 48/50 V* | 24.7/ 25.7 mA | 21.1/ 22.0 mA | 788 Ω | 3.22 H | 5.66 H | | | | |
| | 110/120 V | 9.9/10.8 mA | 8.4/9.2 mA | 4,430 Ω | 19.20 H | 32.1 H | | | | |
| | 220/240 V | 4.8/5.3 mA | 4.2/4.6 mA | 18,790 Ω | 83.50 H | 136.4 H | | | | |
| DC | 6 V* | 151 mA | | 39.8 Ω | 0.17 H | 0.33 H | 10% min. | | 0.9 W | |
| | 12 V | 75 mA | | 160 Ω | 0.73 H | 1.37 H | | | | |
| | 24 V | 37.7 mA | | 636 Ω | 3.20 H | 5.72 H | | | | |
| | 48 V* | 18.8 mA | | 2,560 Ω | 10.60 H | 21.0 H | | | | |
| | 100/110 V | 9.0/9.9 mA | | 11,100 Ω | 45.60 H | 86.2 H | | | | |

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for rated currents and ±15% for DC coil resistance.

2. Performance characteristic data are measured at a coil temperature of 23°C.

3. AC coil resistance and impedance are provided as reference values (at 60 Hz).

4. Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.

5. Rated voltage denoted by "*" will be manufactured upon request. Ask your OMRON representative.

■ Contact Ratings

| Item | 2-pole | | 4-pole | | 4-pole (bifurcated) | |
|--------------------------------|--------------------------------------|---|--------------------------------------|---|--------------------------------------|---|
| | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi = 0.4, L/R = 7\text{ ms}$) | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi = 0.4, L/R = 7\text{ ms}$) | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi = 0.4, L/R = 7\text{ ms}$) |
| Rated load | 5A, 250 VAC 5A, 30 VDC | 2A, 250 VAC 2 A, 30 VDC | 3 A, 250 VAC 3 A, 30 VDC | 0.8 A, 250 VAC 1.5 A, 30 VDC | 3 A, 250 VAC 3 A, 30 VDC | 0.8 A, 250 VAC 1.5 A, 30 VDC |
| Carry current | 10 A (see note) | | 5 A (see note) | | | |
| Max. switching voltage | 250 VAC 125 VDC | | 250 VAC 125 VDC | | | |
| Max. switching current | 10 A | | 5 A | | | |
| Max. switching power | 2,500 VA 300 W | 1,250 VA 300 W | 1,250 VA 150 W | 500 VA 150 W | 1,250 VA 150 W | 500 VA 150 W |
| Failure rate (reference value) | 5 VDC, 1 mA | | 1 VDC, 1 mA | | 1 VDC, 100 μ A | |

Note: Don't exceed the carry current of a Socket in use. Please see page 9.

■ Characteristics

| Item | All Relays |
|---------------------------------|--|
| Contact resistance | 100 m Ω max. |
| Operate time | 20 ms max. |
| Release time | 20 ms max. |
| Max. operating frequency | Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load) |
| Insulation resistance | 1,000 M Ω min. (at 500 VDC) |
| Dielectric strength | 2,000 VAC, 50/60 Hz for 1.0 min (1,000 VAC between contacts of same polarity) |
| Vibration resistance | Destruction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude) |
| Shock resistance | Destruction: 1,000 m/s ² Malfunction: 200 m/s ² |
| Endurance | See the following table. |
| Ambient temperature | Operating: -55°C to 70°C (with no icing) |
| Ambient humidity | Operating: 5% to 85% |
| Weight | Approx. 35 g |

Note: The values given above are initial values.

■ Endurance Characteristics

| Pole | Mechanical life (at 18,000 operations/hr) | Electrical life (at 1,800 operations/hr under rated load) |
|---------------------|---|--|
| 2-pole | AC:50,000,000 operations min. | 500,000 operations min. |
| 4-pole | DC:100,000,000 operations min. | 200,000 operations min. |
| 4-pole (bifurcated) | 20,000,000 operations min. | 100,000 operations min. |

■ Approved Standards

VDE Recognitions (File No. 112467UG, IEC 255, VDE 0435)

| No. of poles | Coil ratings | Contact ratings | Operations |
|--------------|---|---|--|
| 2 | 6, 12, 24, 48/50, 100/110 110/120, 200/220, | 10 A, 250 VAC (cosφ=1) 10 A, 30 VDC (L/R=0 ms) | 10 x 10 ³ |
| 4 | 220/240 VAC 6, 12, 24, 48, 100/110, 125 VDC | 5 A, 250 VAC (cosφ=1) 5 A, 30 VDC (L/R=0 ms) | 100 x 10 ³ MY4Z AC; 50 x 10 ³ |

UL508 Recognitions (File No. 41515)

| No. of poles | Coil ratings | Contact ratings | Operations |
|--------------|------------------------------|---|---------------------|
| 2 | 6 to 240 VAC 6 to 125 VDC | 10 A, 30 VDC (General purpose) 10 A, 250 VAC (General purpose) | 6 x 10 ³ |
| 4 | | 5 A, 250 VAC (General purpose) 5 A, 30 VDC (General purpose) | |

CSA C22.2 No. 14 Listings (File No. LR31928)

| No. of poles | Coil ratings | Contact ratings | Operations |
|--------------|------------------------------|---|---------------------|
| 2 | 6 to 240 VAC 6 to 125 VDC | 10 A, 30 VDC 10 A, 250 VAC | 6 x 10 ³ |
| 4 | | 5 A, 250 VAC (Same polarity) 5 A, 30 VDC (Same polarity) | |

IMQ (File No. EN013 to 016)

| No. of poles | Coil ratings | Contact ratings | Operations |
|--------------|---|-------------------------------|--|
| 2 | 6, 12, 24, 48/50, 100/110 110/120, 200/220, 220/240 VAC | 10 A, 30 VDC 10 A, 250 VAC | 10 x 10 ³ |
| 4 | | 5 A, 250 VAC 5 A, 30 VDC | 100 x 10 ³ MY4Z AC; 50 x 10 ³ |

LR Recognitions (File No. 98/10014)

| No. of poles | Coil ratings | Contact ratings | Operations |
|--------------|------------------------------|---|----------------------|
| 2 | 6 to 240 VAC 6 to 125 VDC | 10 A, 250 VAC (Resistive) 2 A, 250 VAC (PF0.4) 10 A, 30 VDC (Resistive) 2 A, 30 VDC (L/R=7 ms) | 50 x 10 ³ |
| 4 | | 5 A, 250 VAC (Resistive) 0.8 A, 250 VAC (PF0.4) 5 A, 30 VDC (Resistive) 1.5 A, 30 VDC (L/R=7 ms) | 50 x 10 ³ |

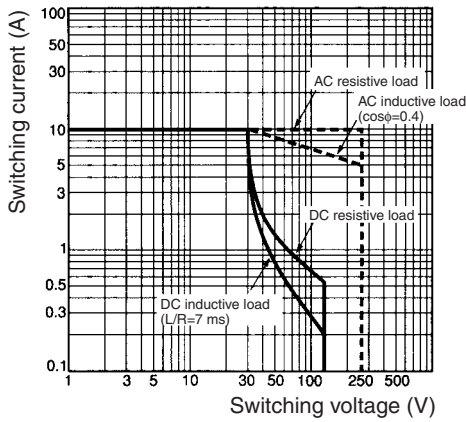
SEV Listings (File No. 99.5 50902.01)

| No. of poles | Coil ratings | Contact ratings | Operations |
|--------------|------------------------------|-------------------------------|--|
| 2 | 6 to 240 VAC 6 to 125 VDC | 10 A, 250 VAC 10 A, 30 VDC | 10 x 10 ³ |
| 4 | | 5 A, 250 VAC 5 A, 30 VDC | 100 x 10 ³ MY4Z AC; 50 x 10 ³ |

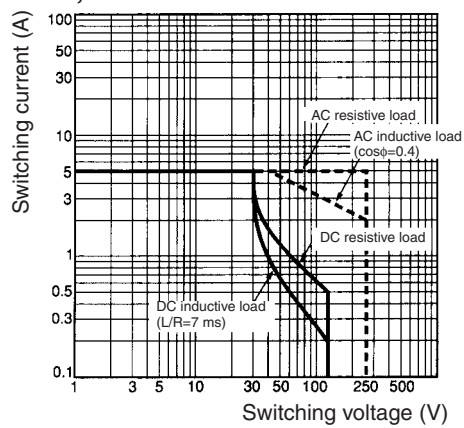
Engineering Data

Maximum Switching Power

MY2

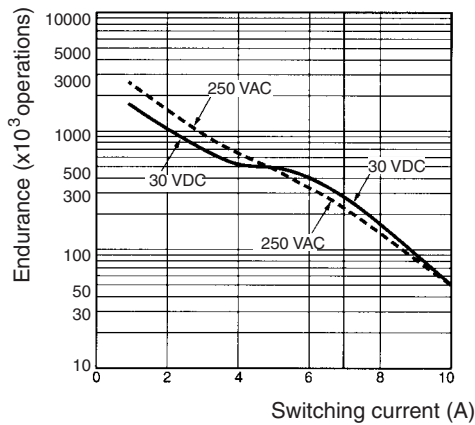


MY4, MY4Z

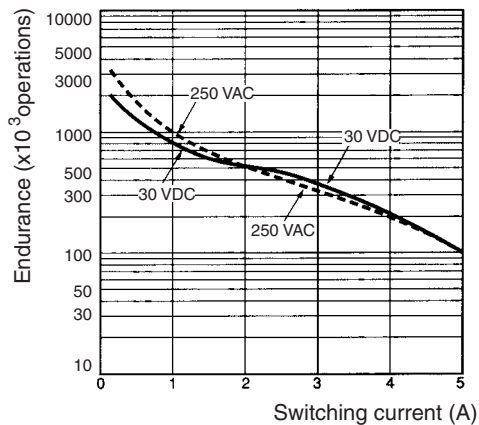


Endurance

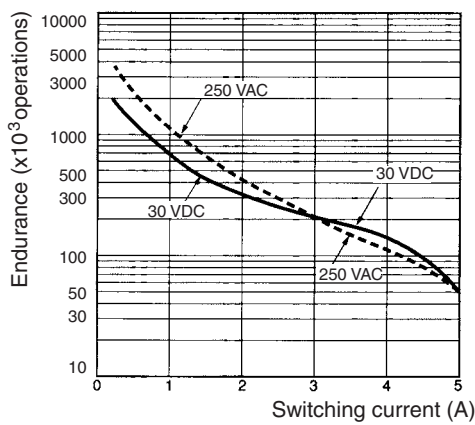
MY2 (Resistive Loads)



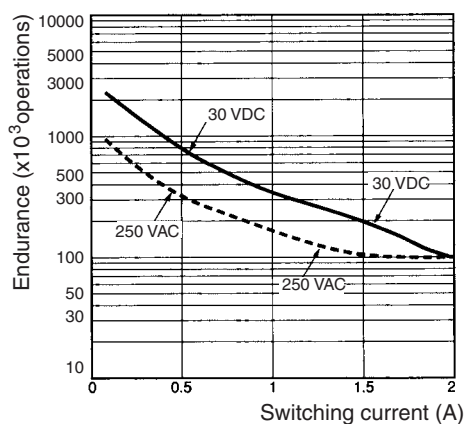
MY2 (Inductive Loads)



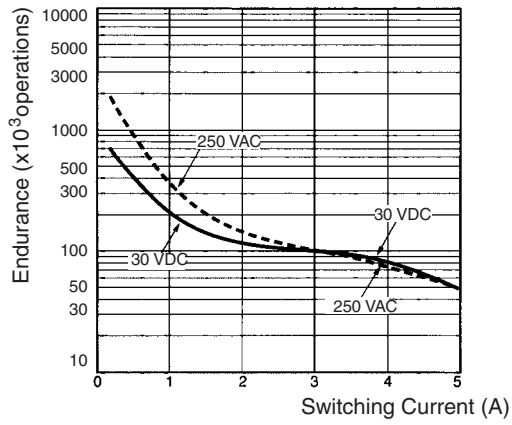
MY4 (Resistive Loads)



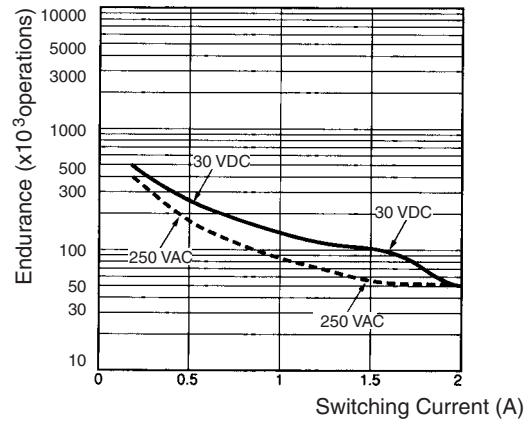
MY4 (Inductive Loads)



MY4Z (Resistive Loads)



MY4Z (Inductive Loads)

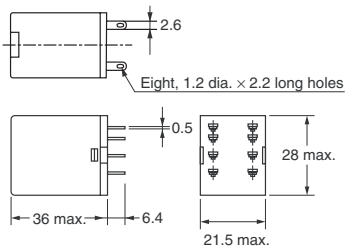
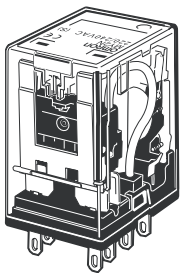


Dimensions

Note: All units are in millimeters unless otherwise indicated.

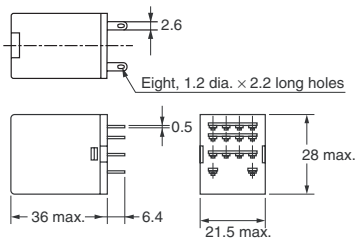
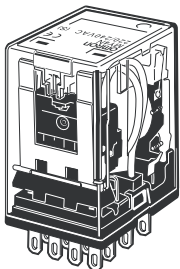
2-Pole Models

MY2N



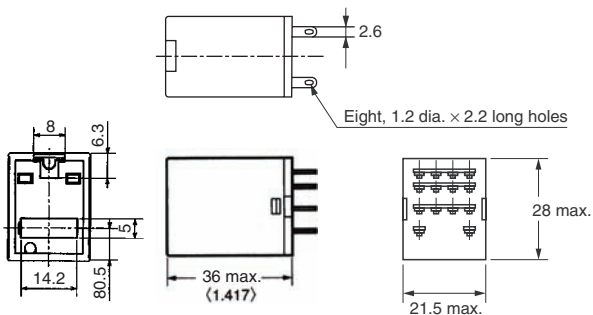
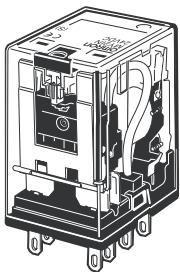
4-Pole Models

MY4N

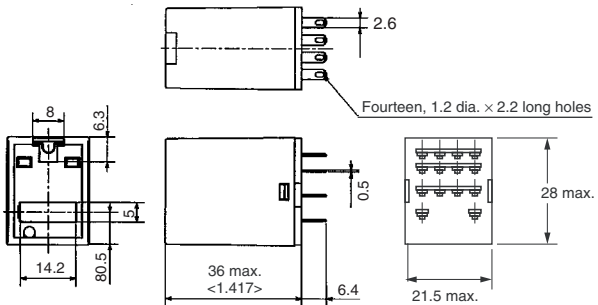
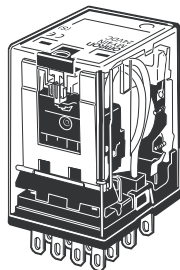


Models with Test Button

MY2IN

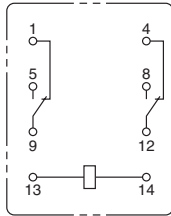


MY4IN

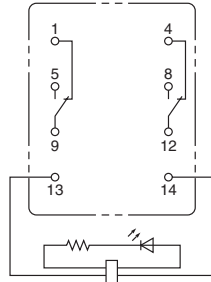


Terminal Arrangement/Internal Connections (Bottom View)

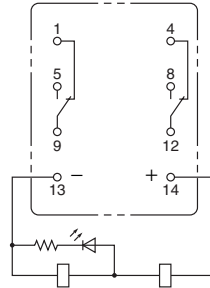
MY2



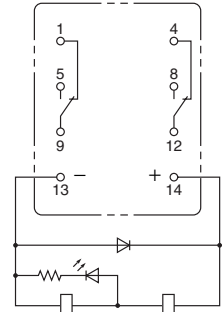
MY2N/MY2IN
(AC Models)



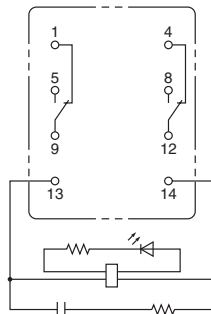
MY2N/MY2IN
(DC Models)



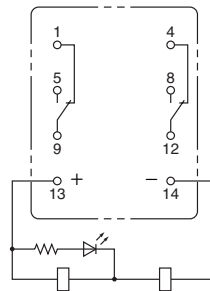
MY2N-D2/MY2IN-D2
(DC Models Only)



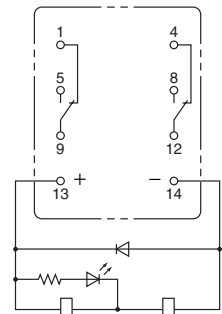
MY2N-CR/MY2IN-CR
(AC Models Only)



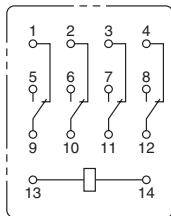
MY2N1/MY2IN1
(DC Models Only)



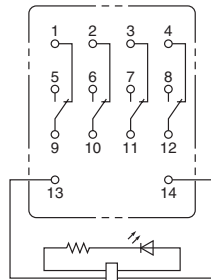
MY2N1-D2/MY2IN1-D2
(DC Models Only)



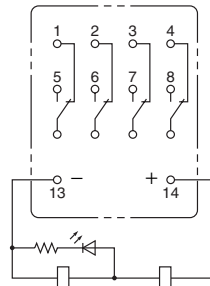
MY4(Z)



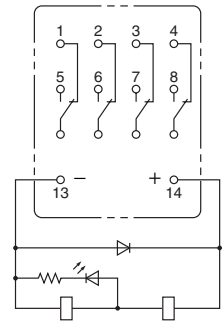
MY4(Z)N/MY4(Z)IN
(AC Models)



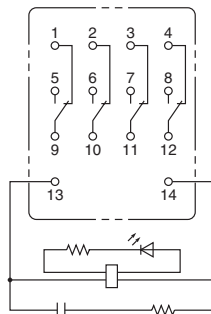
MY4(Z)N/MY4(Z)IN
(DC Models)



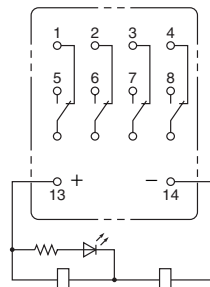
MY4(Z)N-D/MY4(Z)IN-D2
(DC Models Only)



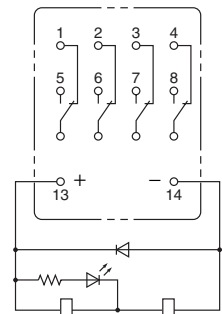
MY4(Z)N-CR/MY4(Z)IN-CR
(AC Models Only)



MY4(Z)N1/MY4(Z)IN1
(DC Models Only)



MY4(Z)N1-D2/MY4(Z)IN1-D2
(DC Models Only)

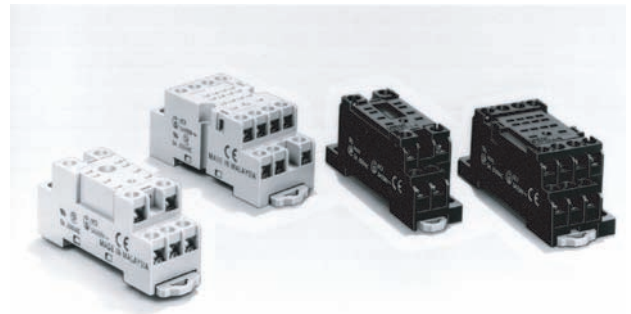


Note: The DC models have polarity.

Socket for MY

Track-mounted (DIN Track) Socket Conforms to VDE 0106, Part 100

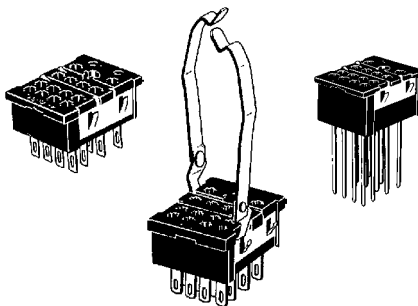
- Snap into position along continuous sections of any mounting track.
- Facilitates sheet metal design by standardized mounting dimensions.
- Design with sufficient dielectric separation between terminals eliminates the need of any insulating sheet.



■ Safety Standards for Sockets

| Model | Standards | File No. |
|--------------------|-----------|----------|
| PYF08A-E, PYF08A-N | UL508 | E87929 |
| PYF14A-E, PYF14A-N | CSA22.2 | LR31928 |

Back-connecting Sockets




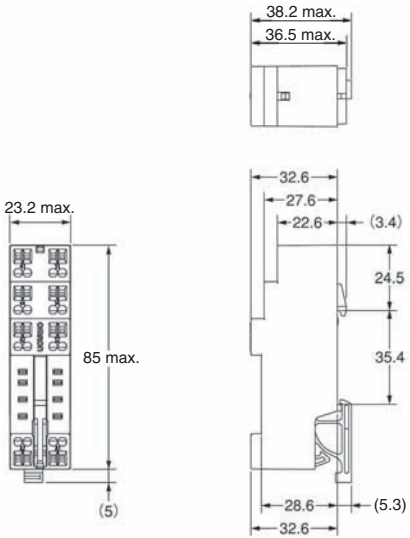
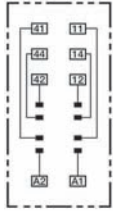
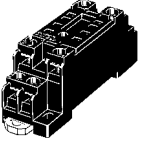
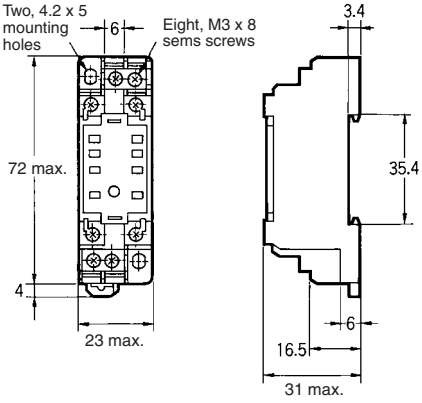
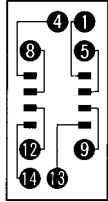
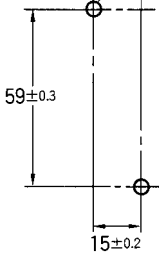
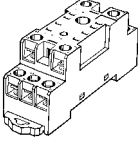
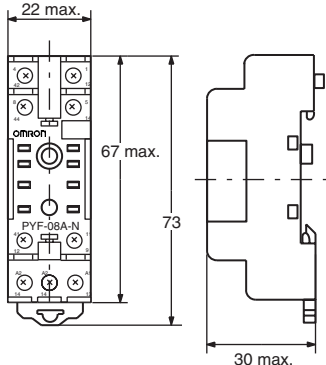
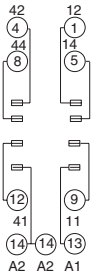
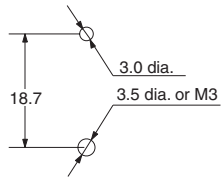
■ Specifications

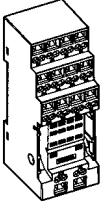
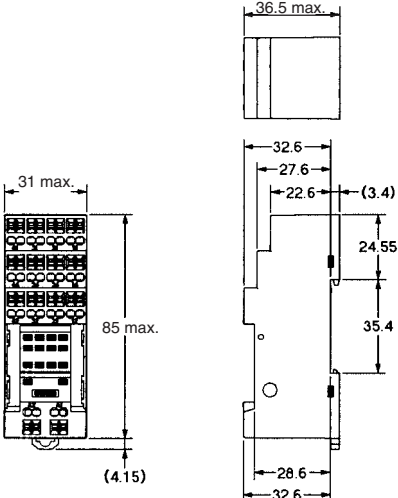
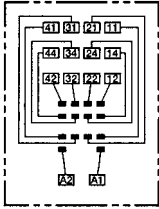
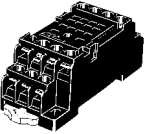
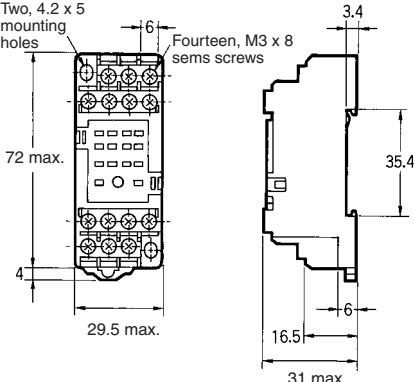
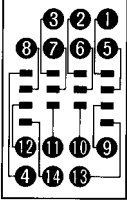
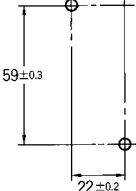
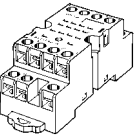
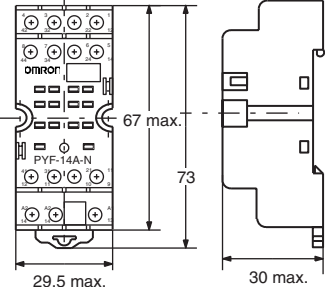
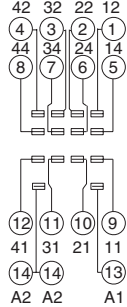
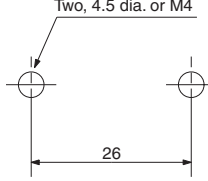
| Item | Pole | Model | Carry current | Dielectric withstand voltage | Insulation resistance (see note 2) |
|---------------------------------|------|-----------------------|------------------|------------------------------|------------------------------------|
| Screwless Clamp Terminal Socket | 2 | PYF08S | 10 A | 2,000 VAC, 1 min | Less than 1,000 MΩ |
| | 4 | PYF14S | 5 A | | |
| Track-mounted Socket | 2 | PYF08A-E | 7 A | 2,000 VAC, 1 min | 1,000 MΩ min. |
| | | PYF08A-N (see note 3) | 7 A (see note 4) | | |
| | 4 | PYF14A-E | 5 A | | |
| | | PYF14A-N (see note 3) | 5 A (see note 4) | | |
| Back-connecting Socket | 2 | PY08(-Y1) | 7 A | 1,500 VAC, 1 min | 100 MΩ min. |
| | | PY08QN(-Y1) | | | |
| | | PY08-02 | | | |
| | 4 | PY14(-Y1) | 3 A | | |
| | | PY14QN(-Y1) | | | |
| | | PY14-02 | | | |

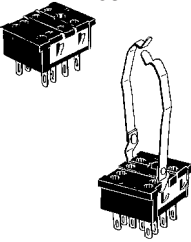
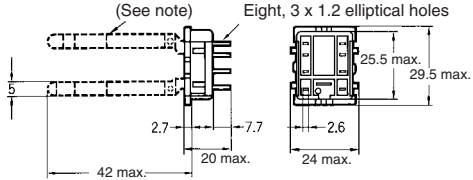
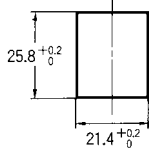
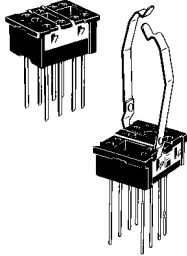
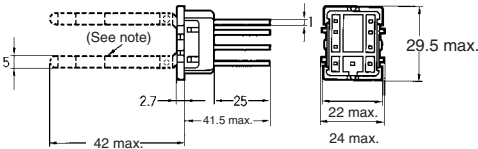
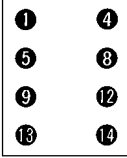

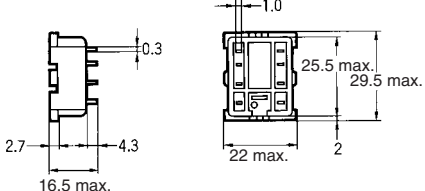
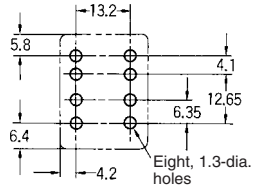
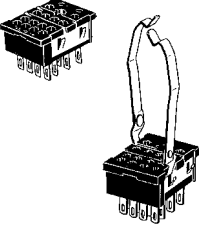
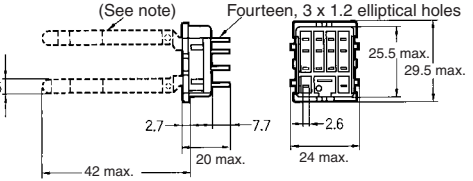
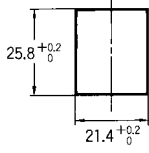
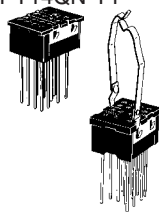
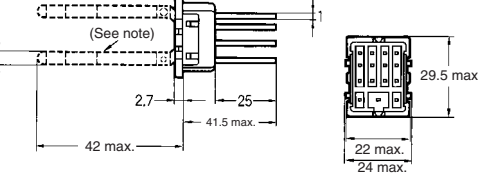
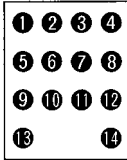

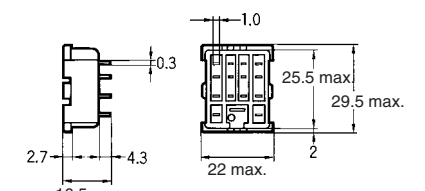
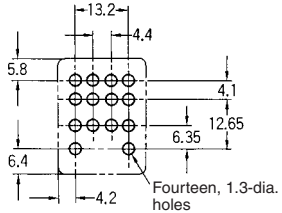
- Note:**
1. The values given above are initial values.
 2. The values for insulation resistance were measured at 500 V at the same place as the dielectric strength.
 3. The maximum operating ambient temperature for the PYF08A-N and PYF14A-N is 55°C.
 4. When using the PYF08A-N or PYF14A-N at an operating ambient temperature exceeding 40°C, reduce the current to 60%.
 5. The MY2(S) can be used at 70°C with a carry current of 7 A.

■ Dimensions

Note: All units are in millimeters unless otherwise indicated.

| Socket | Dimensions | Terminal arrangement/ Internal connections (top view) | Mounting holes |
|---|--|--|---|
| <p>PYF08S</p>  |  |  | <p>---</p> |
| <p>PYF08A-E</p>  | <p>Two, 4.2 x 5 mounting holes</p> <p>Eight, M3 x 8 semi screws</p>  |  | <p>Two, M3, M4, or 4.5-dia. holes</p>  <p>(TOP VIEW)</p> <p>Note: Track mounting is also possible. Refer to page 12 for supporting tracks.</p> |
| <p>PYF08A-N</p>  |  |  |  <p>Note: Track mounting is also possible. Refer to page 12 for supporting tracks.</p> |

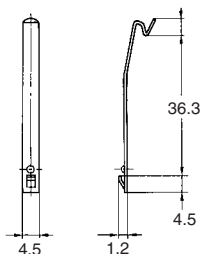
| Socket | Dimensions | Terminal arrangement/ Internal connections (top view) | Mounting holes |
|---|---|--|---|
| <p>PYF14S</p>  |  |  | <p>---</p> |
| <p>PYF14A-E</p>  | <p>Two, 4.2 x 5 mounting holes</p> <p>Fourteen, M3 x 8 sems screws</p>  |  | <p>Two, M3, M4, or 4.5-dia. holes</p>  <p>(TOP VIEW)</p> <p>Note: Track mounting is also possible. Refer to page 12 for supporting tracks.</p> |
| <p>PYF14A-N</p>  |  |  | <p>Two, 4.5 dia. or M4</p>  <p>Note: Track mounting is also possible. Refer to page 12 for supporting tracks.</p> |

| Socket | Dimensions | Terminal arrangement/ Internal connections (bottom view) | Mounting holes |
|---|--|--|---|
| <p>PY08/PY08-Y1</p>  |  <p>Note: The PY08-Y1 includes sections indicated by dotted lines.</p> | |  |
| <p>PY08QN/ PY08QN-Y1</p>  |  <p>Note: The PY08QN-Y1 includes sections indicated by dotted lines.</p> |  | |
| <p>PY08-02</p>  |  | |  |
| <p>PY14/PY14-Y1</p>  |  <p>Note: The PY14-Y1 includes sections indicated by dotted lines.</p> | |  |
| <p>PY14QN/ PY14QN-Y1</p>  |  <p>Note: The PY14QN-Y1 includes sections indicated by dotted lines.</p> |  | |
| <p>PY14-02</p>  |  | |  |

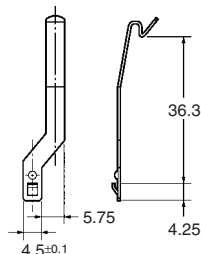
Note: Use a panel with plate thickness of 1 to 2 mm for mounting the Sockets.

Hold-down Clips

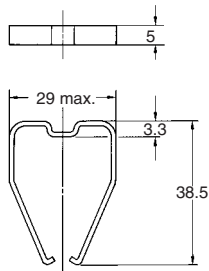
PYC-A1
(2 pcs per set)



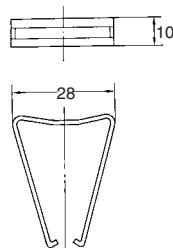
PYC-E1
(2 pcs per set)



PYC-P

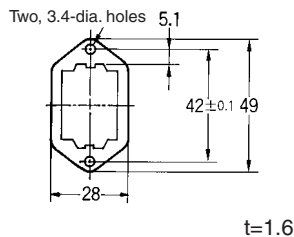


PYC-P2

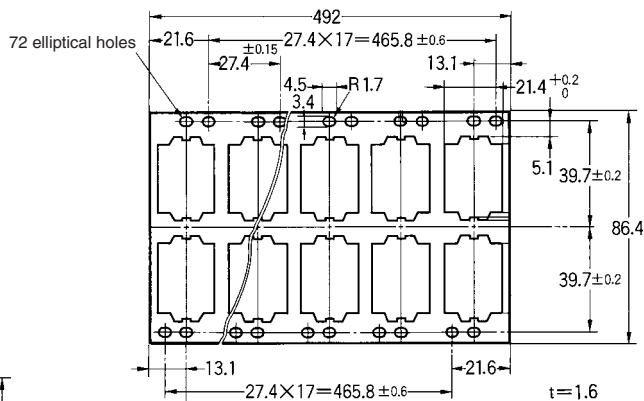


Mounting Plates for Back-connecting Sockets

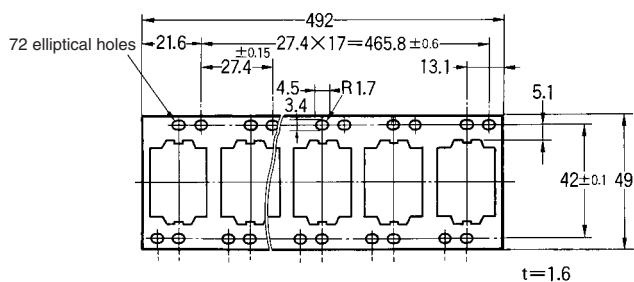
PYP-1



PYP-36



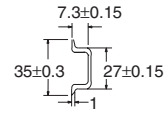
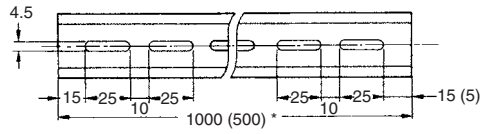
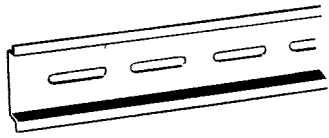
PYP-18



Tracks and Accessories

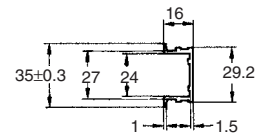
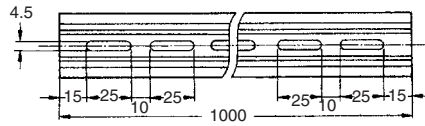
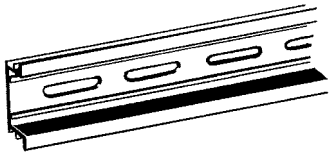
Supporting Tracks

PFP-50N/PFP-100N



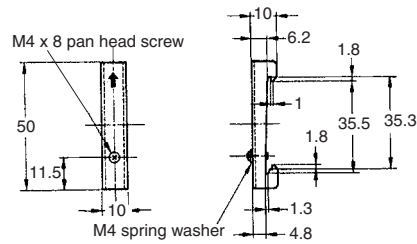
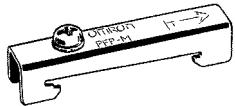
Note: The figure in the parentheses is for PFP-50N.

PFP-100N2



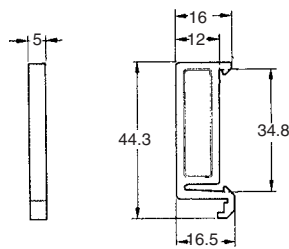
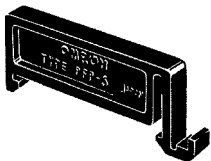
End Plate

PFP-M



Spacer

PFP-S



Precautions

Refer to *General Precautions* on page 11 of the *General-purpose Relays and Power Relays Group Catalog (X034)*.

■ 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.

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. J111-E1-03 **In the interest of product improvement, specifications are subject to change without notice.**

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Printed in Japan

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