

# General-purpose Relay MY

## Versatile, Multi-featured, Miniature Power Relay for Sequence Control and Power Switching Applications

- Models with lockable test buttons now available.
- Multiple features available, including operation indicators (mechanical and LED indicators), lockable test button, built-in diode and CR (surge suppression), bifurcated contacts, etc.
- Environment-friendly cadmium-free contacts.
- Wide range of Sockets (PY, PYF Series) and optional parts.
- Max. Switching Current: 2-pole: 10 A, 4-pole: 5 A
- Provided with nameplate.
- RoHS Complaint.



## Ordering Information

### ■ Relays

#### Standard Coil Polarity

Type	Contact form	Model		
		Plug-in socket/solder terminals		
		Standard with LED indicator	With LED indicator and lockable test button	Without LED indicator
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	Model	
		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:** 1. When ordering, add the rated coil voltage to the model number(s), followed by "(S)". Rated coil voltages are given in the coil ratings table.  
Example: MY2 AC12(S)

↑  
Rated coil voltage

2. Arc barrier standard on all four-pole relays.

3. Other models also available, such as, three-pole versions, flangemount, PCB, etc. Contact your Omron Representative for details.

# Specifications

## ■ Coil Ratings

Rated voltage		Rated current		Coil resistance	Inductance (reference value)		Must operate	Must release	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 to 1.1 VA (60 Hz)
	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				
										0.9 W

- 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 (cosφ = 1)	Inductive load (cosφ = 0.4, L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4, L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4, L/R = 7 ms)
Rated load	5 A, 250 VAC 5 A, 30 VDC	2 A, 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 capacity	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
Min. permissible load*	5 VDC, 1 mA		1 VDC, 1 mA		1 VDC, 100 μA	

\* Reference value.

**Note:** Do not exceed the carry current of a Socket in use.

## ■ Characteristics

<b>Contact resistance</b>		100 mΩ max.
<b>Operate time</b>		20 ms max.
<b>Release time</b>		20 ms max.
<b>Max. operating frequency</b>	Mechanical	18,000 operations/hr
	Electrical	1,800 operations/hr (under rated load)
<b>Insulation resistance</b>		1,000 MΩ min. (at 500 VDC)
<b>Dielectric withstand voltage</b>		2,000 VAC, 50/60 Hz for 1.0 min (1,000 VAC between contacts of same polarity)
<b>Vibration resistance</b>		Destruction: 10 to 55 Hz, 1.0 mm double amplitude Malfunction: 10 to 55 Hz, 1.0 mm double amplitude
<b>Shock resistance</b>		Destruction: 1,000 m/s <sup>2</sup> (approx. 100G) Malfunction: 200 m/s <sup>2</sup> (approx. 20G)
<b>Life expectancy</b>		See the following table.
<b>Ambient temperature</b>	Operating	-55° C to 70° C (-67° F to 158° F) with no icing (see note)
<b>Ambient humidity</b>	Operating	5% to 85% RH
<b>Weight</b>		Approx. 35 g

**Note:** The values given above are initial values.

## ■ Life Expectancy 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. DC:100,000,000 operations min.	500,000 operations min.
4-pole		200,000 operations min.
4-pole (bifurcated)	20,000,000 operations min.	100,000 operations min.

## ■ Approved Standards

VDE, UL, CSA, IMQ, CE

## ■ Precautions

### Connections

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

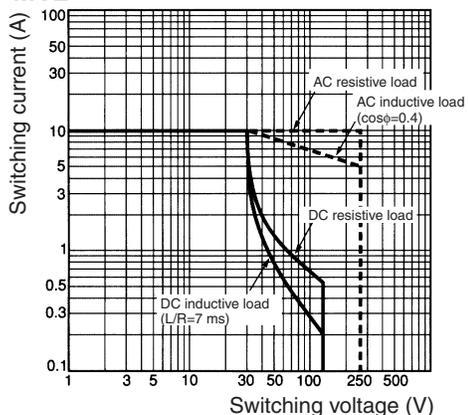
### Mounting

Whenever possible, mount Relays so that it is not subject to vibration or shock in the same direction as that of contact movement.

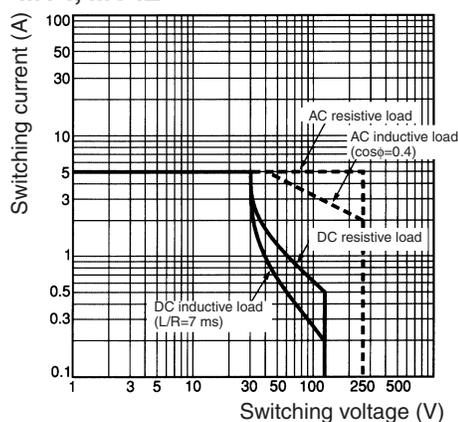
# Engineering Data

## Maximum Switching Power

MY2

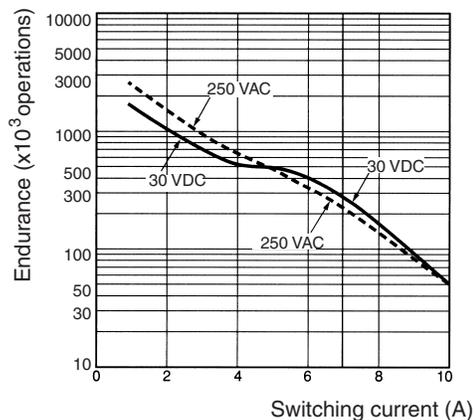


MY4, MY4Z

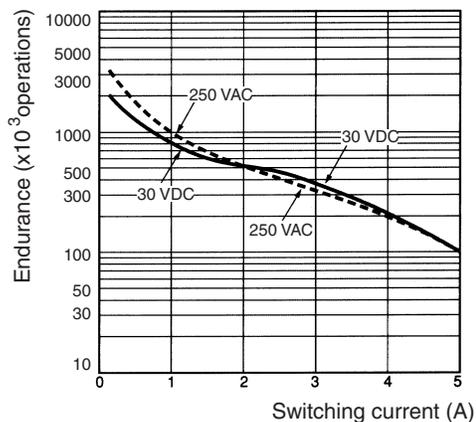


## Endurance

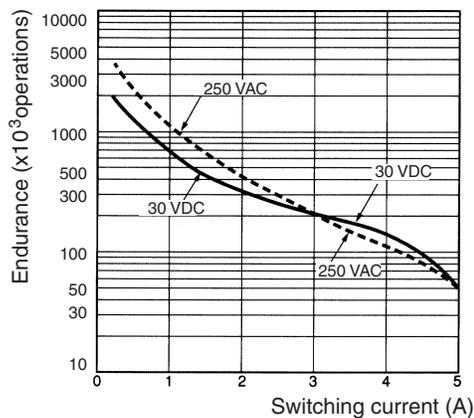
MY2 (Resistive Loads)



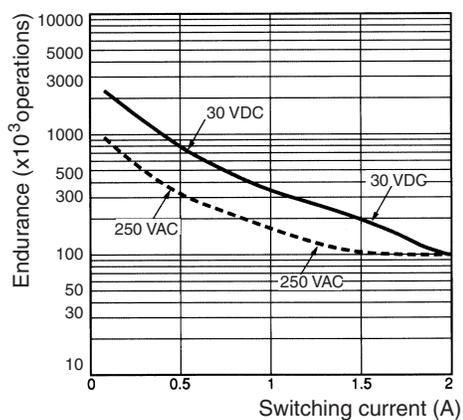
MY2 (Inductive Loads)



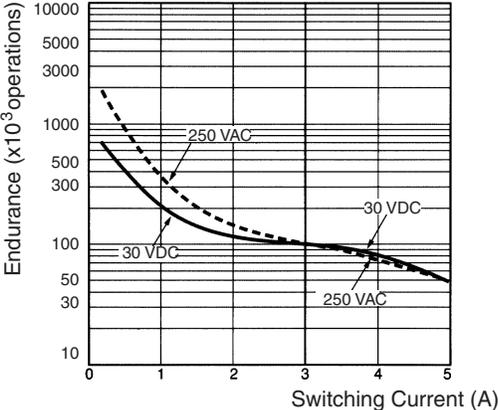
MY4 (Resistive Loads)



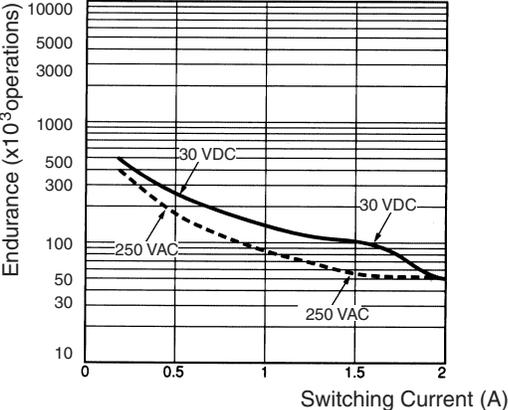
MY4 (Inductive Loads)



MY4Z (Resistive Loads)



MY4Z (Inductive Loads)

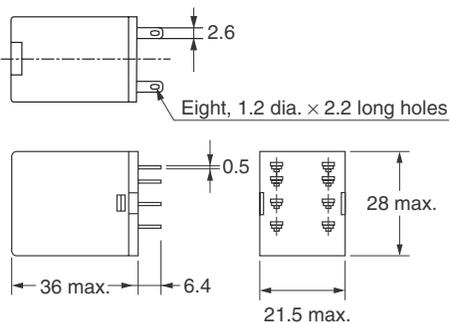
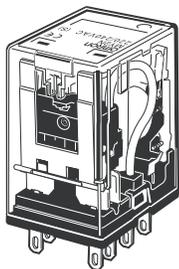


# Dimensions

Note: All units are in millimeters unless otherwise indicated.

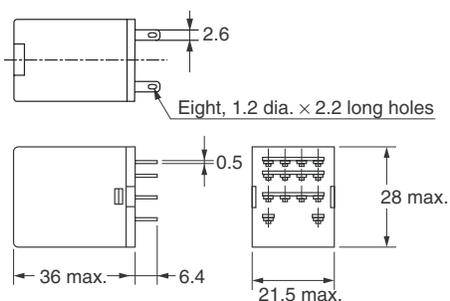
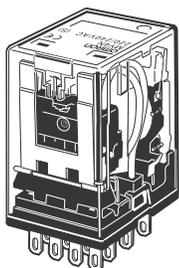
## 2-Pole Models

MY2N



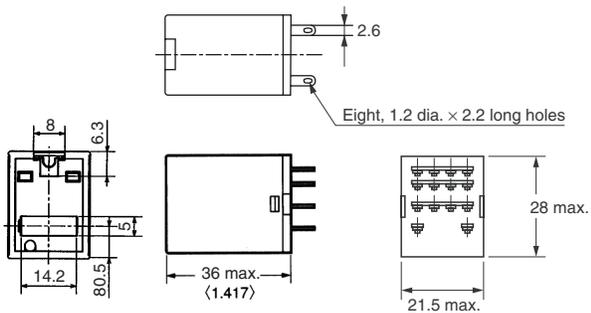
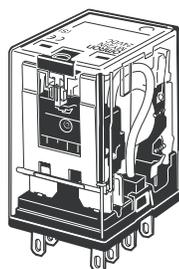
## 4-Pole Models

MY4N

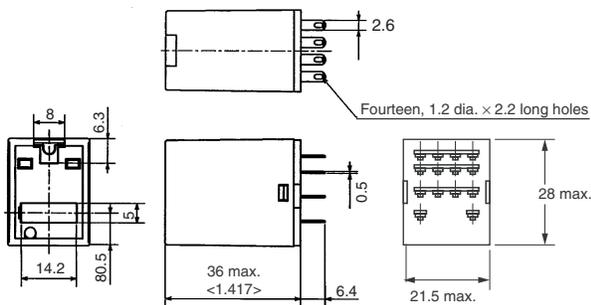
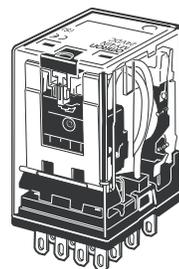


## Models with Test Button

MY2IN

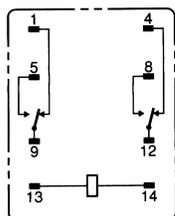


MY4IN

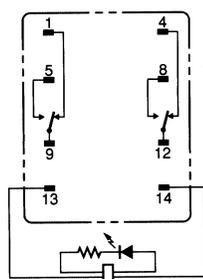


# Terminal Arrangement/Internal Connections (Bottom View)

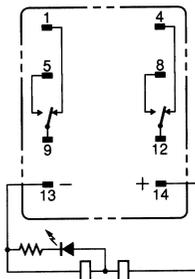
**MY2**



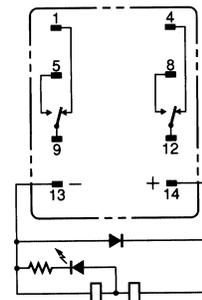
**MY2N/MY2IN  
(AC Models)**



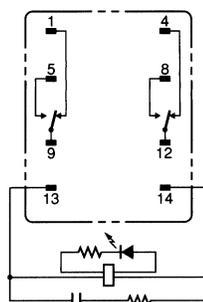
**MY2N/MY2IN  
(DC Models)**



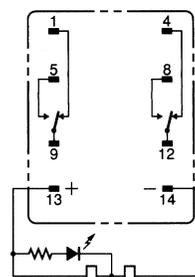
**MY2N-D2/MY2IN-D2  
(DC Models Only)**



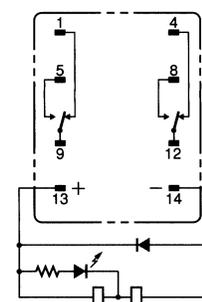
**MY2N-CR/MY2IN-CR  
(AC Models Only)**



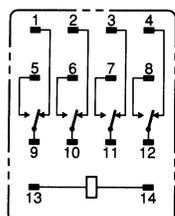
**MY2N1/MY2IN1  
(DC Models Only)**



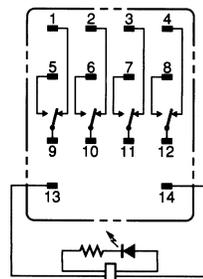
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(DC Models Only)**



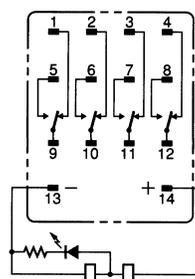
**MY4(Z)**



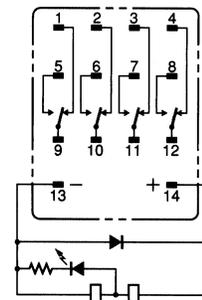
**MY4(Z)N/MY4(Z)IN  
(AC Models)**



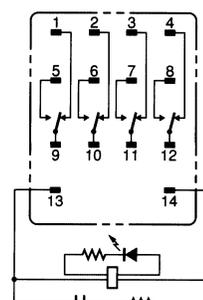
**MY4(Z)N/MY4(Z)IN  
(DC Models)**



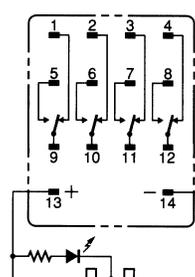
**MY4(Z)N-D/MY4(Z)IN-D2  
(DC Models Only)**



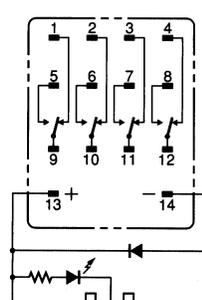
**MY4(Z)N-CR/MY4(Z)IN-CR  
(AC Models Only)**



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



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



## Accessories (order separately)

### ■ Track-mounted Screwless Clamp Terminal Sockets

Item	Model	
	4-pole	2-pole
Socket	PYF14S	PYF08S
Clip & release lever	PYCM-14S	PYCM-08S
Nameplate	R99-11 nameplate for MY	
Socket bridge	PYDM-14SR, PYDM-14SB	PYDM-08SR, PYDM-08SB

**Note:** For complete specifications, see the datasheet at Omron's Knowledge Center on our website: [www.knowledge.omron.com](http://www.knowledge.omron.com).

### ■ Sockets

Poles	Front-connecting socket (DIN-track/screw mounting)	Back-connecting socket		
		Solder terminals		PCB terminals
		Without clip	With clip	
2	PYF08A-E	PY08	PY08-Y1	PY08-02
	PYF08A-N			
4	PYF14A-E	PY14	PY14-Y1	PY14-02
	PYF14A-N			

### ■ Socket 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.
		PY08-02			
	4	PY14(-Y1)	3 A		
		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.

### ■ Socket Hold-down Clip Pairing

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

## ■ Mounting Plates for Sockets

Socket model	For 1 socket	For 18 sockets	For 36 sockets
PY08, PY14	PYP-1	PYP-18	PYP-36

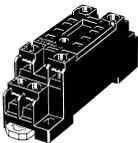
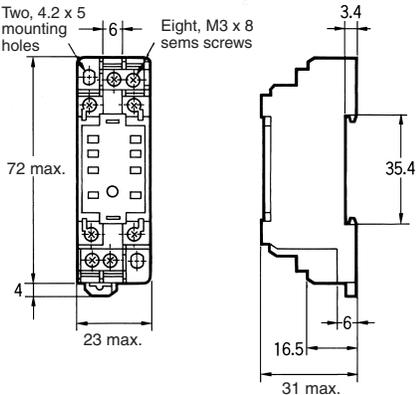
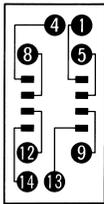
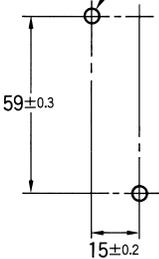
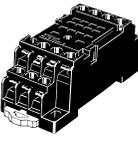
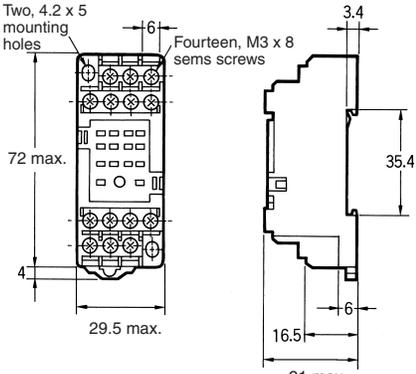
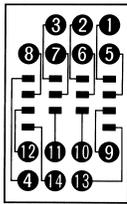
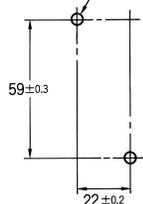
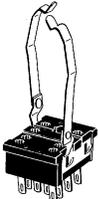
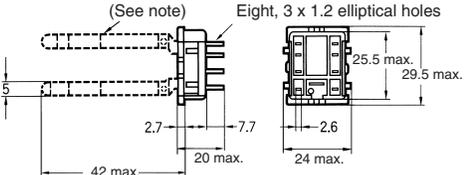
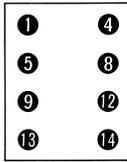
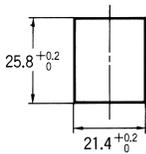
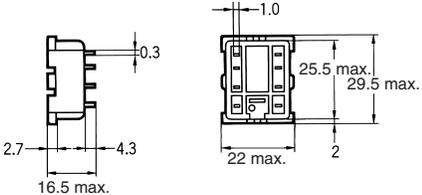
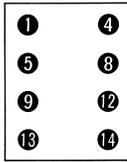
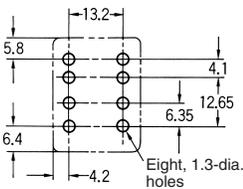
**Note:** PYP-18 and PYP-36 can be cut into any desired length in accordance with the number of Sockets.

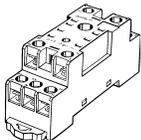
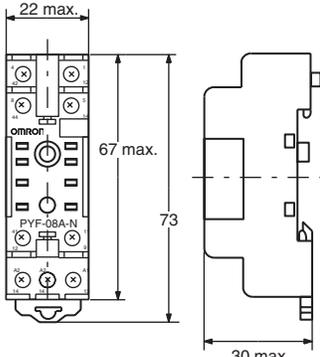
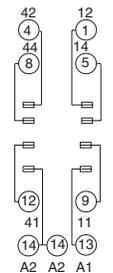
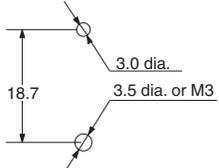
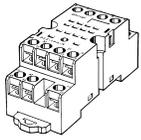
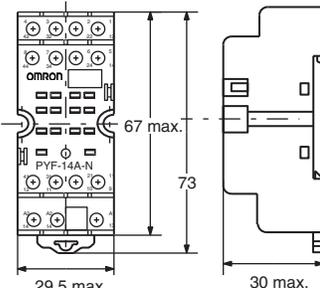
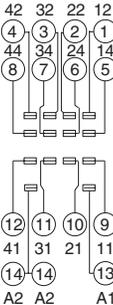
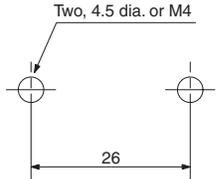
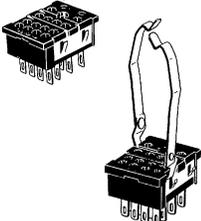
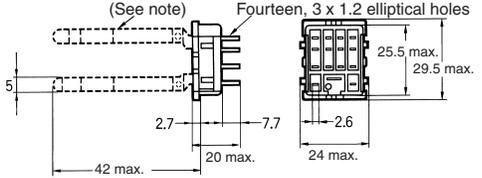
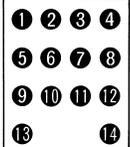
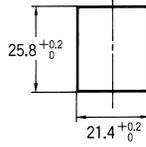
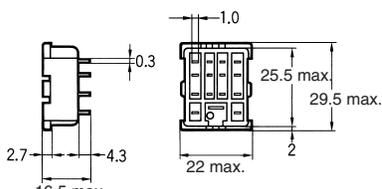
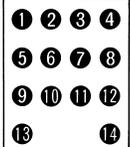
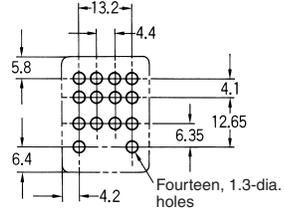
## ■ DIN Rail Track and Accessories

Description	Model
Mounting rail (length = 500 mm)	PFP-50N
Mounting rail (length = 1,000 mm)	PFP-100N, PFP-100N2
End Plate	PFP-M
Spacer	PFP-S

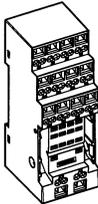
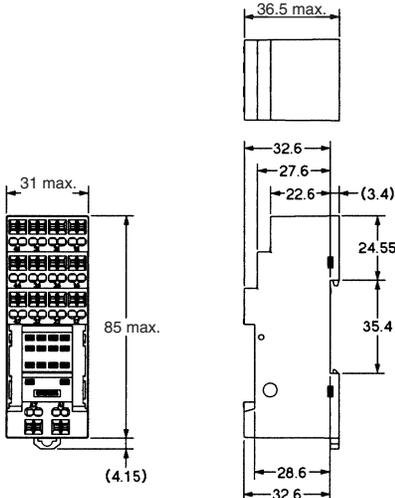
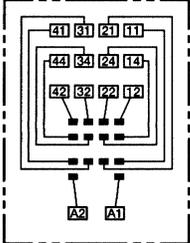
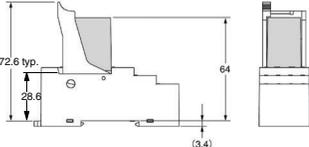
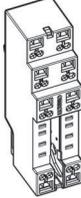
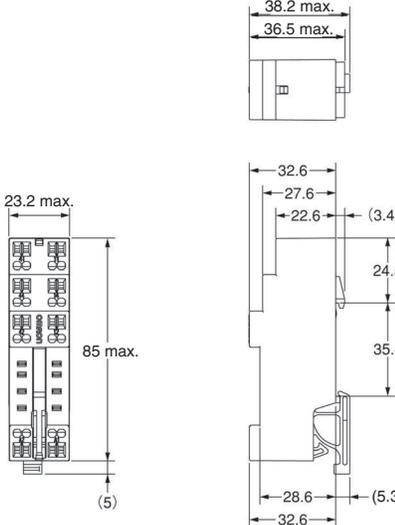
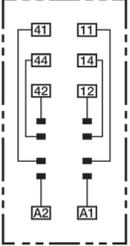
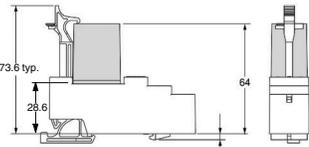
# ■ Dimensions

Unit: mm (inch)

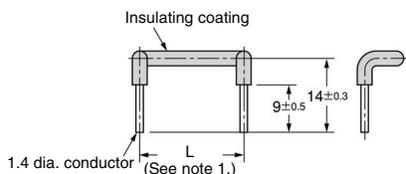
Socket	Dimensions	Terminal arrangement/ internal connections (top view)	Mounting holes
<p>PYF08A-E</p> 			<p>Two, M3, M4, or 4.5-dia. holes</p>  <p>(TOP VIEW)</p> <p><b>Note:</b> Track mounting is also possible.</p>
<p>PYF14A-E</p> 			<p>Two, M3, M4, or 4.5-dia. holes</p>  <p>(TOP VIEW)</p> <p><b>Note:</b> Track mounting is also possible.</p>
<p>PY08/PY08-Y1</p>  	<p>(See note) Eight, 3 x 1.2 elliptical holes</p>  <p><b>Note:</b> The PY08-Y1 includes sections indicated by dotted lines.</p>		
<p>PY08-02</p> 			 <p>Eight, 1.3-dia. holes</p>

Socket	Dimensions	Terminal arrangement/ internal connections (top view)	Mounting holes
			 <p><b>Note:</b> Track mounting is also possible.</p>
			 <p><b>Note:</b> Track mounting is also possible.</p>
	 <p>(See note) Fourteen, 3 x 1.2 elliptical holes</p> <p><b>Note:</b> The PY14-Y1 includes sections indicated by dotted lines.</p>		
			

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

Socket	Dimensions	Terminal arrangement/ internal connections (top view)	Mounting height (with lever)
 <p>PYF14S</p>	 <p>31 max. 85 max. (4.15) 36.5 max. 32.6 27.6 22.6 (3.4) 24.55 35.4 28.6 32.6</p>	 <p><b>Note:</b> Pole-2 and pole-3 cannot be used with the MY2 type. Use pole-1 (terminal numbers 11, 14, 12) and pole-4 (terminal numbers 41, 44, 42).</p>	 <p>72.6 typ. 28.6 64 (3.4)</p> <p><b>Note:</b> Track mounting only.</p>
 <p>PYF08S</p>	 <p>23.2 max. 85 max. (5) 38.2 max. 36.5 max. 32.6 27.6 22.6 (3.4) 24.5 35.4 28.6 (5.3) 32.6</p>		 <p>73.6 typ. 28.6 64 (3.4)</p> <p><b>Note:</b> Track mounting only.</p>

**Socket Bridge**



Model number	Length L (mm)	Color of insulating coating
PYDM-14SR	27.5±0.3	Red
PYDM-14SB		Blue
PYDM-08SR	19.7±0.3	Red
PYDM-08SB		Blue

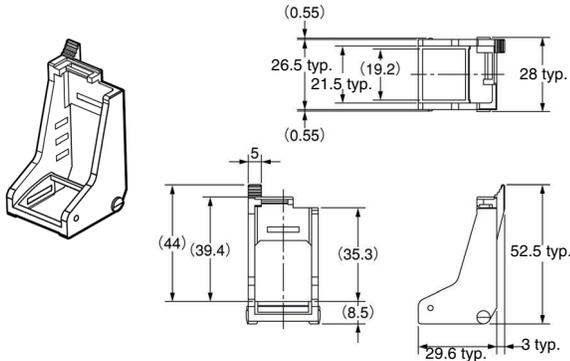
- Note:**
- The relationship between the model number, the length L, and the color of the insulating coating is shown above.
  - The insulating coating must be able to withstand a voltage of 1,500 V for 1 minute. Use either PE or PA as the material of the insulating coating.

Item	Characteristic
Rated ON current	10 A
Rated insulation voltage	250 VAC
Temperature rise	35° C max.
Dielectric strength	1,500 VAC for 1 minute
Ambient operating temperature	-55 to 70° C

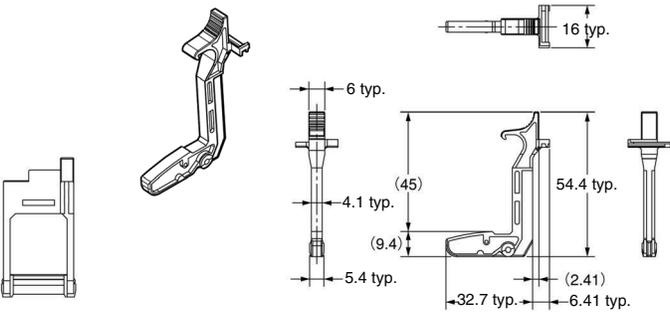
- The positions of the ends of the insulating coating must not vary more than 0.5 mm.
- The characteristics of the socket bridge are shown above.

### Clip and Release Levers

PYCM-14S

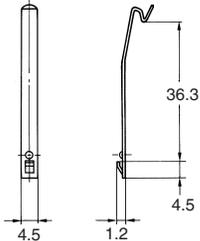


PYCM-085

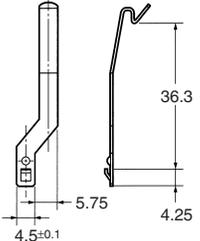


### Hold-down Clips

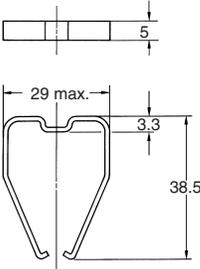
PYC-A1  
(2 pcs per set)



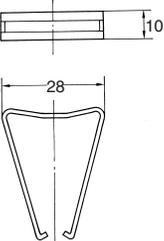
PYC-E1  
(2 pcs per set)



PYC-P

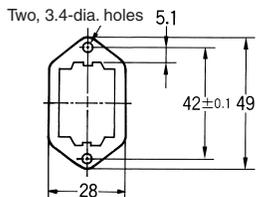


PYC-P2

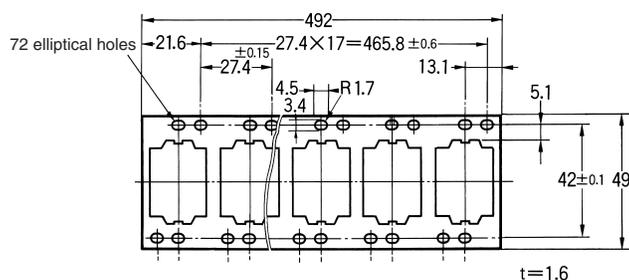


## ■ Mounting Plates for Back-connecting Sockets

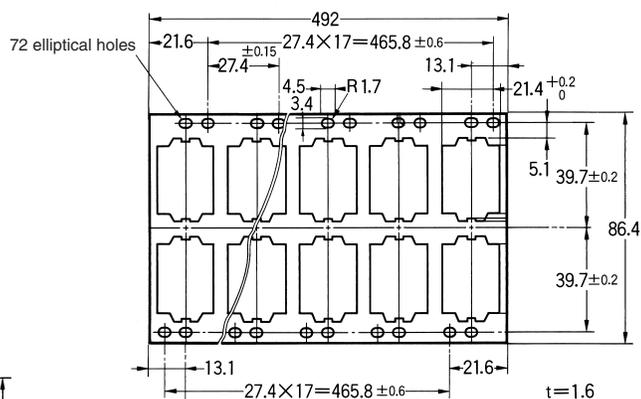
PYP-1



PYP-18



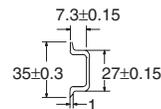
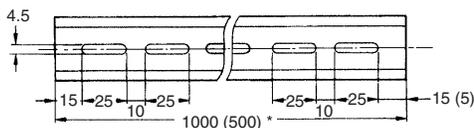
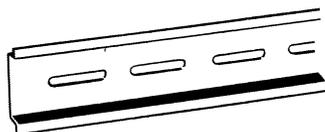
PYP-36



## ■ Mounting Track and Accessories

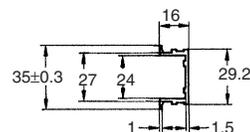
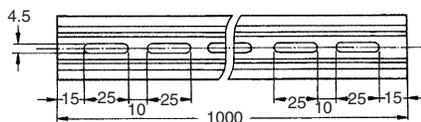
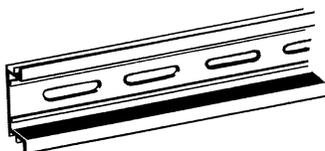
### DIN Rail Track

PFP-50N/PFP-100N



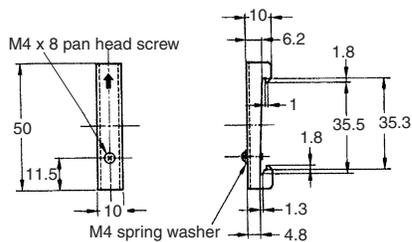
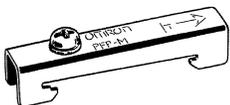
Note: The figure in the parentheses is for PFP-50N.

PFP-100N2



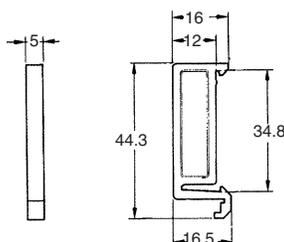
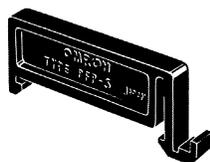
### End Plate

PFP-M



## Spacer

PFP-S



### ■ 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, 220/240 VAC	10 A, 250 VAC (cosφ=1) 10 A, 30 VDC (L/R=0 ms)	10 x 10 <sup>3</sup>
4	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 <sup>3</sup> MY4Z AC; 50 x 10 <sup>3</sup>

#### 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 <sup>3</sup>
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 <sup>3</sup>
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 <sup>3</sup>
4	6, 12, 24, 48, 100/110, 125 VDC	5 A, 250 VAC 5 A, 30 VDC	100 x 10 <sup>3</sup> MY4Z AC; 50 x 10 <sup>3</sup>

#### 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 <sup>3</sup>
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 <sup>3</sup>

## 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 <sup>3</sup>
4		5 A, 250 VAC 5 A, 30 VDC	100 x 10 <sup>3</sup> MY4Z AC; 50 x 10 <sup>3</sup>

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

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

## PYF-S Installation Notes

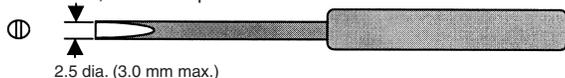
### Tools

A flat-blade screwdriver should be used to mount the cables.

### Applicable Screwdriver

- Flat-blade, Parallel-tip, 2.5 mm diameter (3.0 mm max.)

- Flat-blade, Parallel-tip



- Flat-blade, Flared-tip



Cannot be used.

Examples: FACOM AEF.2.5 x 75E (AEF. 3 x 75E)  
 VESSEL No. 9900-(-)2.5 x 75 (No. 9900-(-)3 x 100)  
 WAGO 210-119  
 WIHA 260/2.5 x 40 (260/3 x 50)

\*Chamfering the tip of the driver improves insertion when used as an exclusive tool.

### Applicable Wires

#### Applicable Wire Sizes

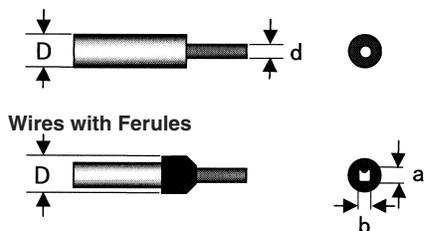
0.2 to 1.5 mm<sup>2</sup>, AWG24 to AWG16

#### Applicable Wire Type

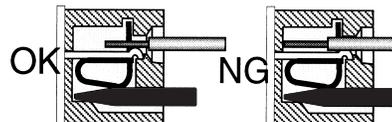
Solid wires, stranded wires, flexible wires, or wires with ferules can be used.

(See note 1.)  $2.2 \leq \text{Diameter } D \text{ (mm)} \leq 3.2$  (3.5: see note 2.)

Conductor diameter  $d$  (mm) or length of sides  $a$  and  $b$  (mm)  $\leq 1.9$



**Note: 1.** If the overall diameter of the wire is less than 2.2 mm, do not insert the wire past the conductor. Refer to the following diagrams.



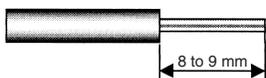
**2.** If the overall diameter of the wire is over 3.2 mm, it will be difficult to use double wiring.

## Examples of Applicable Wires (Confirmed Using Catalog Information)

Type of wire	Conductor type	See note 1, above.	Recommended wire sizes	See note 2, above.
Equipment wire 2491X	Flexible		0.5, 0.75, 1.0 mm <sup>2</sup>	1.5 mm <sup>2</sup>
BS6004	Solid	0.5 mm <sup>2</sup>		
Switchgear BS6231	Solid		1.0 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Switchgear BS6231	Flexible		0.5, 0.75 mm <sup>2</sup>	1.0 mm <sup>2</sup>
Tri-rated control and switchgear	Flexible		0.5, 0.75, 1.0, 1.5 mm <sup>2</sup>	
Conduit	Stranded		1.5 mm <sup>2</sup>	
UL1007	Flexible	18AWG	16AWG	
UL1015	Flexible		18AWG, 16AWG	
UL1061	Flexible	18AWG		
UL1430	Flexible	18AWG	16AWG	

### ■ Wiring

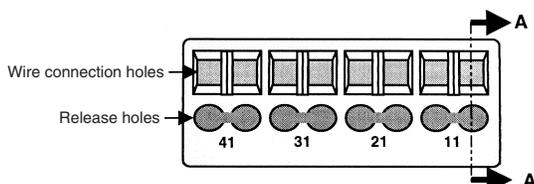
Use wires of the applicable sizes specified above. The length of the exposed conductor should be 8 to 9 mm.



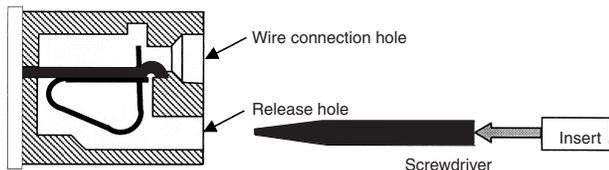
**Fig. 1 Exposed Conductor Length**

Use the following wiring procedure.

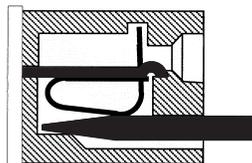
1. Insert the specified screwdriver into the release hole located beside the wire connection hole where the wire is to be inserted.



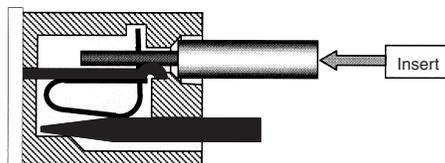
**Fig. 2 Wire Connection Holes and Release Holes**



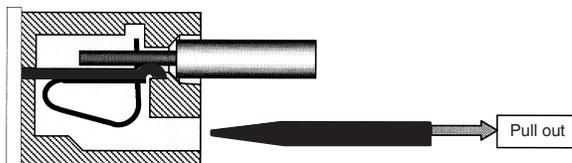
**Fig. 3 Section A-A of Fig. 2**



2. Insert the exposed conductor into the wire connection hole.



3. Pull out the screwdriver.

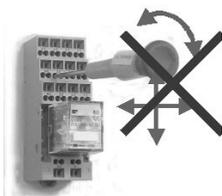


**Note:** Use no more than 2 wires per terminal, 1 wire per hole.

## ■ Precautions

### Precautions for Connection

- Do not move the screwdriver up, down, or from side to side while it is inserted in the hole. Doing so may cause damage to internal components (e.g., deformation of the coil spring or cracks in the housing) or cause deterioration of insulation.
- Do not insert the screwdriver at an angle. Doing so may break the side of socket and result in a short-circuit.



- Do not insert two or more wires in the hole. Wires may come in contact with the spring causing a temperature rise or be subject to sparks. (There are two wiring holes for each terminal.)



- Insert the screwdriver along the hole wall as shown below.



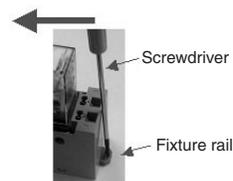
- If lubricating liquid, such as oil, is present on the tip of screwdriver, the screwdriver may fall out resulting in injury to the operator.
- Insert the screwdriver into the bottom of the hole. It may not be possible to connect cables properly if the screwdriver is inserted incorrectly.

### General Precautions

- Use the clip to prevent relays floating or falling out of the socket.
- Do not use the product if it has been dropped on the ground. Dropping the product may adversely affect performance.
- Confirm that the socket is securely attached to the mounting track before wiring. If the socket is mounted insecurely it may fall and injure the operator.
- Ensure that the socket is not charged during wiring and maintenance. Not doing so may result in electric shock.
- Do not pour water or cleansing agents on the product. Doing so may result in electric shock.
- Do not use the socket in locations subject to solvents or alkaline chemicals.
- Do not use the socket in locations subject to ultraviolet light (e.g., direct sunlight). Doing so may result in markings fading, rust, corrosion, or resin deterioration.
- Do not dispose of the product in fire.

### Removing from Mounting Rail

To remove the socket from the mounting rail, insert the tip of screwdriver in the fixture rail, and move it in the direction shown below.



# Omron Electronic Components, LLC

## Terms and Conditions of Sales

### I. GENERAL

- Definitions:** The words used herein are defined as follows.
  - Terms:** These terms and conditions
  - Seller:** Omron Electronic Components LLC and its subsidiaries
  - Buyer:** The buyer of Products, including any end user in section III through VI
  - Products:** Products and/or services of Seller
  - Including:** Including without limitation
- Offer/Acceptance:** These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
- Distributor:** Any distributor shall inform its customer of the contents after and including section III of these Terms.

### II. SALES

- Prices; Payment:** All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
- Discounts:** Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past due amounts owing to Seller.
- Interest:** Seller, at its option, may charge Buyer 1.5% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders:** Seller will accept no order less than 200 U.S. dollars net billing.
- Currencies:** If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
- Governmental Approvals:** Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- Taxes:** All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
- Financial:** If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts.
- Cancellation; Etc:** Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- Force Majeure:** Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- Shipping; Delivery:** Unless otherwise expressly agreed in writing by Seller:
  - All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
  - Delivery and shipping dates are estimates only; and
  - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- Claims:** Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

### III. PRECAUTIONS

- Suitability:** IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention:** The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
  - Outdoor use, use involving potential chemical contamination or electrical interference.
  - Use in consumer Products or any use in significant quantities.

- Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
  - Systems, machines, and equipment that could present a risk to life or property.
- Prohibited Use:** NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
  - Motorized Vehicle Application:** USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
  - Programmable Products:** Seller shall not be responsible for the Buyer's programming of a programmable Product.

### IV. WARRANTY AND LIMITATION

- Warranty:** Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
- Buyer Remedy:** Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment.
- Limitation on Liability:** SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIABILITY OF SELLER OR ITS AFFILIATES EXCEED THE INDIVIDUAL PRICE OF THE PRODUCT ON WHICH LIABILITY IS ASSERTED.
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### V. INFORMATION; ETC.

- Intellectual Property:** The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- Property; Confidentiality:** Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
- Performance Data:** Performance data is provided as a guide in determining suitability and does not constitute a warranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements.
- Change In Specifications:** Product specifications and description may be changed at any time based on improvements or other reasons. It is Seller's practice to change part numbers when published ratings or features are changed, or when significant engineering changes are made. However, some specifications of the Product may be changed without any notice.
- Errors And Omissions:** The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
- Export Controls:** Buyer shall comply with all applicable laws, regulations and licenses regarding (a) export of the Products or information provided by Seller; (b) sale of Products to forbidden or other proscribed persons or organizations; (c) disclosure to non-citizens of regulated technology or information.

### VI. MISCELLANEOUS

- Waiver:** No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller.
- Assignment:** Buyer may not assign its rights hereunder without Seller's written consent.
- Law:** These Terms are governed by Illinois law (without regard to conflict of laws). Federal and state courts in Illinois have exclusive jurisdiction for any dispute hereunder.
- Amendment:** These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties.
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  - (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
  - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
  - (iii) Use in consumer products or any use in significant quantities.
  - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
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