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Bi-power Relays

LY

CSM_LY_DS_E_5_12

Power-switching Compact General-purpose Relays

- Wiring work can be shortened by as much as 60%* compared to conventional screw terminal sockets by combining with push-in plus terminal sockets (PTF-□-PU) that feature light insertion force and strong pull-out strength to achieve less wiring work.
- The standard models include models that are compliant with the UL, CSA, and SEV safety standards and with the Electrical Appliances and Material Safety Act.
- Equipped with an arc barrier for arc interruption.
- Withstand voltages up to 2,000 V.
- New built-in diode and built-in CR circuit models have joined the series.
- The lineup also includes models that are compliant with the LR and VDE safety standards.

* When both push-in plus terminals and screw terminal sockets are combined with plug-in terminal types (according to actual OMRON measurements as of November 2015)

⚠ **Refer to the *Common Relay Precautions*.**



Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

Model Number Structure

Classification	Structure: Number of poles		Relays with Plug-in Terminals		Relays with PCB Terminals	Case-surface mounting
				With operation indicators		
Standard models Compliance with Electrical Appliances and Material Safety Act	1		*LY1	**LY1N	*LY1-0	*LY1F
	2		*LY2	**LY2N	*LY2-0	*LY2F
	2	Bifurcated	**LY2Z	**LY2ZN	**LY2Z-0	**LY2ZF
	3		*LY3	**LY3N	*LY3-0	*LY3F
	4		*LY4	**LY4N	*LY4-0	*LY4F
Models with diode for coil surge absorption (DC coil specification only)	1		**LY1-D	**LY1N-D2	---	---
	2		**LY2-D	**LY2N-D2	---	---
	2	Bifurcated	**LY2Z-D	**LY2ZN-D2	---	---
	3		**LY3-D	**LY3N-D2	---	---
	4		**LY4-D	**LY4N-D2	---	---
Models with CR circuits for coil surge absorption (AC coil specification only)	1		---	---		
	2		**LY2-CR	**LY2N-CR		
	2	Bifurcated	**LY2Z-CR	**LY2ZN-CR		

Note: 1. Cells with a diagonal line cannot be manufactured. Ask your OMRON representative for details on manufacturing products for cells containing "---" in the above table.
2. Refer to page 3 to 4 for information on plug-in terminal and socket combinations.
3. Items with an asterisk (*) in the table are certified for UL, CSA, and SEV. This is indicated with a certification mark on the products.
4. Items with two asterisks (**) in the table are certified for UL and CSA. This is indicated with a certification mark on the products.
5. All models in the table are certified for IEC (TÜV).
6. The models with plug-in terminals (single-pole, double-pole, and 4-pole) were combined with the PTF-E for the EC Declaration of Conformity. These products display the CE Marking.

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Ordering Information

When your order, specify the rated voltage.

Relays

Models with Plug-in Terminals

Classification	Number of poles	1 pole		2 poles		3 poles		4 poles	
		Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)
Models with single contacts	Standard models	LY1	12, 24, 100/110, 110/120, or 200/220 VAC 12, 24, 48, or 100/110 VDC	LY2	12, 24, 100/110,110/120, 200/220, or220/240 VAC 12, 24, 48, or 100/110 VDC	LY3	12, 24, 100/110, or 200/220 VAC 12, 24, 48, or 100/110 VDC	LY4	12, 24, 100/110, or 200/220 VAC 12, 24, 48, or 100/110 VDC
	Models with built-in operation indicators	LY1N	12, 24, 100/110, 110/120, or 200/220 VAC 12, 24, or 100/110 VDC	LY2N	12, 24, 100/110,110/120, 200/220, or 220/240 VAC 12, 24, 48, or 100/110 VDC	LY3N	12, 24, 100/110, or 200/220 VAC 12, 24, 48, or 100/110 VDC	LY4N	12, 24, 100/110, or 200/220 VAC 12, 24, 48, or 100/110 VDC
	Models with built-in diodes	LY1-D	12, 24, 48, or 100/110 VDC	LY2-D	12, 24, 48, or 100/110 VDC	LY3-D	12, 24, 48, or 100/110 VDC	LY4-D	12, 24, 48, or 100/110 VDC
	Models with built-in diodes and operation indicators	LY1N-D2	12, 24, or 48 VDC	LY2N-D2	12, 24, 48, or 100/110 VDC	LY3N-D2	12, 24, or 100/110 VDC	LY4N-D2	12, 24, 48, or 100/110 VDC
	Models with built-in CR circuits	—	—	LY2-CR	100/110, 110/120, 200/220, or 220/240 VAC	---	—	---	—
	Models with built-in CR circuits and operation indicators	—	—	LY2N-CR	100/110, 110/120, 200/220, or 220/240 VAC	---	—	---	—
Bifurcated contacts	Standard models	—	—	LY2Z	100/110 or200/220 VAC	—	—	—	—
		—	—		12, 24, 48, or 100/110 VDC	—	—	—	—
	Models with built-in operation indicators	—	—	LY2ZN	100/110, 110/120, 200/220, or 220/240 VAC	—	—	—	—
		—	—		12 or 24 VDC	—	—	—	—
	Models with built-in diodes	—	—	LY2Z-D	12, 24, or 48 VDC	—	—	—	—
	Models with built-in diodes and operation indicators	—	—	LY2ZN-D2	12, 24, or 100/110 VDC	—	—	—	—
	Models with built-in CR circuits	—	—	LY2Z-CR	100/110 VAC	—	—	—	—
	Models with built-in CR circuits and operation indicators	—	—	LY2ZN-CR	100, 110, 110/1 20, or 200/220 VAC	—	—	—	—

Relays with PCB Terminals

Classification	Number of poles	1 pole		2 poles		3 poles		4 poles	
		Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)
Models with single contacts		LY1-0	24,100/110, 110/120, or 200/220 VAC 12 or 24 VDC	LY2-0	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC 12, 24, 48 or 100/110 VDC	LY3-0	24, 100/110, or 200/220 VAC 12, 24, 48, or 100/110 VDC	LY4-0	24, 100/110, or 200/220 VAC 12, 24, 48, or 100/110 VDC
Bifurcated contacts		---	—	LY2Z-0	100/110 VAC 24, 48, or 100/110 VDC	---	—	---	— —

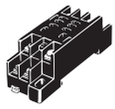
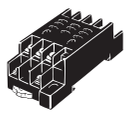
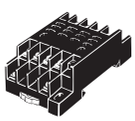
Case-surface Mounting

Classification	Number of poles	1 pole		2 poles		3 poles		4 poles	
		Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)
Models with single contacts		LY1F	24, 100/110, 110/120, 200/220, or 220/240 VAC 6, 12, 24, or 100/110 VDC	LY2F	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC 12, 24, 48, or 100/110 VDC	LY3F	12, 24, 100/110, or 200/220 VAC 12, 24, or 100/110 VDC	LY4F	12, 24, 100/110, or 200/220 VAC 12, 24, or 100/110 VDC
Bifurcated contacts		---	—	LY2ZF	24, 100/110, or 200/220 VAC 12 or 24 VDC	---	—	---	—

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Accessories (Order Separately)

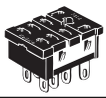
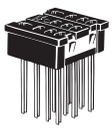
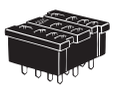
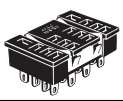
Front-mounting Sockets

Applicable relay model	Mounting Method	Conductive part protection	Terminal Type	Applicable crimp terminal/ Electric wire	Appearance	Model	Hold-down Clips/ Release Levers (Order Separately)
LY1□ LY2□ LY2□-CR	Mounted on a DIN track or with screws	Available	Push-In Plus Terminal	Ferrules Solid wire Stranded wire		**PTF-08-PU** ✻ LY2□-CR cannot be used	With release lever ✻ Hold by release lever
						**PTF-08-PU-L**	LY2□-CR: Y92H-3 Other than those above: PYC-A1
			Screw terminal (M3.5 screw size)	Forked terminals Solid wire Stranded wire		**PTFZ-08-E** ✻	
		None		Round terminals Forked terminals Solid wire Stranded wire		**PTF08A**	
LY3□		None	Screw terminal (M3.5 screw size)	Round terminals Forked terminals Solid wire Stranded wire		**PTF11A**	PYC-A1
LY4□		Available	Push-In Plus Terminal	Ferrules Solid wire Stranded wire		**PTF-14-PU-L**	PYC-A1
			Screw terminal (M3.5 screw size)	Forked terminals Solid wire Stranded wire		**PTFZ-14-E** ✻	
		None		Round terminals Forked terminals Solid wire Stranded wire		**PTF14A**	

✻ The PTFZ-□-E Relays have finger protection. Round terminals cannot be used. Use forked terminals.

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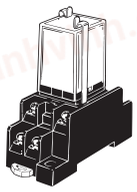
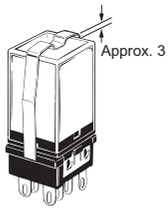
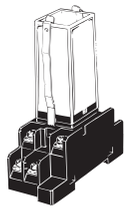
Back-mounting Sockets

Applicable relay model	Terminal Type	Appearance	Mode	Hold-down Clips (Order Separately)
LY1□ LY2□ LY2□-CR	Solder terminals		**PT08***	LY2□-CR: PYC-1 Other than those above: PYC-P
	Wrapping terminals		**PT08QN**	
	PCB terminals		**PT08-0**	
LY3□	Solder terminals		**PT11***	PYC-P
	Wrapping terminals		**PT11QN**	
	PCB terminals		**PT11-0**	
LY4□	Solder terminals		**PT14***	PYC-P
	Wrapping terminals		**PT14QN**	
	PCB terminals		**PT14-0**	

* When ordering PT08, PT11, or PT14 sockets, please note that the minimum order quantity is 10 and orders are accepted in multiples of the minimum order.

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Relay Hold-down Clips

Application / Item	Used with Socket		Used with Socket mounting plate	For models with built-in CR circuits	
Appearance					
Model	PYC-A1	PYC-P	PYC-S	Y92H-3	PYC-1
Minimum order (quantity)*	100	100	10	10	10

✻ Orders are accepted in multiples of the minimum order.

Socket Mounting Plates

Applicable sockets	Number of sockets	Model
PT08 PT08QN	1	PYP-1 *1
	18	PYP-18 *2
	36	PYP-36 *2
PT11 PT11QN	1	PTP-1-3
	12	PTP-12
PT14 PT14QN	1	PTP-1
	10	PTP-10

✻1. When ordering PYP-1, please note that the minimum order quantity is 10 and orders are accepted in multiples of the minimum order.
✻2. PYP-18 and PYP-36 can be cut to any required length.

DIN Track Mounting Parts

Type		Appearance	Model
DIN Tracks	Shallow type, total length: 1 m		PFP-100N
	Shallow type, total length: 0.5 m		PFP-50N
	Deep type, total length: 1 m		PFP-100N2
End Plate			PFP-M
Spacer			PFP-S

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Ratings and Specifications

Ratings

Standard Models with Built-in Operation Indicators

Operating Coil, Single-pole and Double-pole Models

Item / Rated voltage (V)		Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
		50 Hz	60Hz		Armature OFF	Armature ON				
AC	12	106.5	91	46	0.17	0.33	80% max.*1	30% min.*2	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)
	24	53.8	46	180	0.69	1.3				
	50	25.7	22	788	3.22	5.66				
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				Approx. 0.9 to 1.1 (at 60 Hz)
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
DC	6	150		40	0.16	0.33		10% min.*2		Approx. 0.9
	12	75		160	0.73	1.37				
	24	36.9		650	3.2	5.72				
	48	18.5		2,600	10.6	21.0				
	100/110	9.1/10		11,000	45.6	86.2				

3 poles

Item / Rated voltage (V)		Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
		50 Hz	60Hz		Armature OFF	Armature ON				
AC	12	159	134	24	0.12	0.21	80% max.*1	30% min.*2	110% of rated voltage	Approx. 1.6 to 2.0 (at 60 Hz)
	24	80	67	100	0.44	0.79				
	100/110	14.1/16	12.4/13.7	2,300	10.5	18.5				
	200/220	9.0/10.0	7.7/8.5	8,650	34.8	59.5				
DC	12	112		107	0.45	0.98		10% min.*2		Approx. 1.4
	24	58.6		410	1.89	3.87				
	48	28.2		1,700	8.53	13.9				
	100/110	12.7/13		8,500	29.6	54.3				

4 poles

Item / Rated voltage (V)		Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
		50 Hz	60Hz		Armature OFF	Armature ON				
AC	12	199	170	20	0.1	0.17	80% max.*1	30% min.*2	110% of rated voltage	Approx. 1.95 to 2.5 (at 60 Hz)
	24	93.6	80	78	0.38	0.67				
	100/110	22.5/25.5	19/21.8	1,800	10.5	17.3				
	200/220	11.5/13.1	9.8/11.2	6,700	33.1	57.9				
DC	12	120		100	0.39	0.84		10% min.*2		Approx. 1.5
	24	69		350	1.41	2.91				
	48	30		1,600	6.39	13.6				
	100/110	15/15.9		6,900	32.0	63.7				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for the AC rated current and ±15% for the DC coil resistance.
2. The AC coil resistance and inductance values are reference values only. (at 60 Hz).
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

*1. There is variation between products, but actual values are 80% max.
To ensure operation, apply at least 80% of the rated value (at a coil temperature of +23° C).
*2. The actual values are 30% min. for AC and 10% min. for DC. To ensure release, use a value that is lower than the specified value.

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Refer to *List of Certified Models* for a list of models that are certified for safety standards and the Electrical Appliances and Material Safety Act.

Item \ Classification / Load	1 pole			Double-, 3-, and 4-pole models			Bifurcated contacts	
	Resistive load		Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load		Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Contact type	Single						Bifurcated	
Contact materials	Ag alloy						Ag	
Rated load	15 A at 110 VAC 15 A at 24 VDC	10 A at 250 VAC	10 A at 110 VAC 7 A at 24 VDC	10 A at 110 VAC 10 A at 24 VDC	10 A at 250 VAC	7.5 A at 110 VAC 5 A at 24 VDC	5 A at 110 VAC 5 A at 24 VDC	4 A at 110 VAC 4 A at 24 VDC
Electrical endurance*1	200,000 operations min.	200,000 operations min.	200,000 operations min.	3-, 4-pole: 200,000 operations min. 2-pole: 500,000 operations min.	50,000 operations min.	3-, 4-pole: 200,000 operations min. 2-pole: 500,000 operations min.	2-pole: 500,000 operations min.	
Rated carry current	15 A			10 A			7 A	
Maximum contact voltage	250 VAC 125 VDC			250 VAC 125 VDC			250 VAC 125 VDC	
Maximum contact current	15 A			10 A			7 A	

Item \ Type	Single-pole and double-pole models (standard models and bifurcated contact models)	Single-pole, double-pole models (models with built-in operation indicators, models with built-in diodes, and models with built-in CR circuits), 3-pole and 4-pole models
Ambient operating temperature	−25 to 55°C (with no icing or condensation)*2	−25 to +40°C (with no icing or condensation)*3
Ambient operating humidity	5% to 85%	

Note:
1. Some models in the LY1 and LY2 Series have an upper temperature limit of +40°C. This limitation is due to the diode junction temperature and the elements used.
2. Refer to *Ambient Temperature vs. Coil Temperature Rise* in *Engineering Data* on page 8 to 9 for information on operation in temperature conditions that are not described here.
3. When you apply a minimum of 10 A of current to an LY1 when it is used in combination with the PTF-08-PU, PTF-08-PU-L, PTF08A, PTFZ-08-E, or PT08, connect each of the following terminal pairs: (1) to (2), (3) to (4), and (5) to (6).

*1. Ambient temperature condition: 23° C
Rated load, operating frequency: 1,800 operations/h
*2. If the carry current is 4 A or less, the usable ambient temperature range is −25 to 70° C.
*3. If the flowing current is 4 A or less, the usable ambient temperature range is -25 to 55° C.

Characteristics

Item \ Type		Standard models, models with built-in operation indicators, models with built-in CR circuits, and models with built-in diodes	Bifurcated contacts
Contact resistance*1		50 mΩ max.	
Operating time*2		25 ms max.	
Release time*2		25 ms max.	
Maximum operating frequency	Mechanical	18,000 operations/h	
	Rated load	1,800 operations/h	
Insulation resistance*3		100 MΩ min.	
Dielectric strength	Between coil and contacts	2,000 VAC at 50/60 Hz for 1 min.	
	Between contacts of different polarity		
	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.	
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/s²	
	Malfunction	200 m/s²	
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min.	(switching frequency: 18,000 operations/h)
Failure rate P value (reference value)*4		100 mA at 5 VDC	10mA at 5 VDC
Weight		1-pole and 2-pole: 40 g, 3-pole: Approx. 50 g, 4-pole: Approx. 70 g	

Note: The values at the left are initial values.

*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
*2. Measurement conditions: With rated operating power applied, not including contact bounce.
Ambient temperature condition: 23° C
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. This value was measured at a switching frequency of 120 operations per minute.

Endurance Under Real Loads (Reference Only)

Item / Load type	LY1, 100 VAC			LY2, 100 VAC			LY4, 100 VAC		
	Conditions	Operating frequency	Electrical life (×10,000 operations min.)	Conditions	Operating frequency	Electrical life (×10,000 operations min.)	Conditions	Operating frequency	Electrical life (×10,000 operations min.)
AC motor	400 W, 100 VAC single-phase with 35-A inrush current, 7-A current flow	ON for 10 s, OFF for 50 s	5	200 W, 100 VAC single-phase with 25-A inrush current, 5-A current flow	ON for 10 s, OFF for 50 s	20	200 W, 200 VAC three-phase with 5-A inrush current, 1-A current flow	ON for 10 s, OFF for 50 s	50
							750 W, 200 VAC three-phase with 18-A inrush current, 3.5-A current flow		7
AC lamp	300 W, 100 VAC with 51-A inrush current, 3-A current flow	ON for 5 s, OFF for 55 s	10	300 W, 100 VAC with 51-A inrush current, 3-A current flow	ON for 5 s, OFF for 55 s	8	300 W, 100 VAC with 51-A inrush current, 3-A current flow	ON for 5 s, OFF for 55 s	5
	500 W, 100 VAC with 78-A inrush current, 5-A current flow		2.5						
Capacitor (2,000 µF)	24 VDC with 50-A inrush current, 1-A current flow	ON for 1 s, OFF for 6 s	10	24 VDC with 50-A inrush current, 1-A current flow	ON for 1 s, OFF for 15 s	1	24 VDC with 50-A inrush current, 1-A current flow	ON for 1 s, OFF for 15 s	0.5
				24 VDC with 20-A inrush current, 1-A current flow		15	24 VDC with 20-A inrush current, 1-A current flow	ON for 1 s, OFF for 2 s	20
AC solenoid	50 VA with 2.5-A inrush current, 0.25-A current flow	ON for 1 s, OFF for 2 s	150	50 VA with 2.5-A inrush current, 0.25-A current flow	ON for 1 s, OFF for 2 s	100	50 VA with 2.5-A inrush current, 0.25-A current flow	ON for 1 s, OFF for 2 s	100
	100 VA with 5-A inrush current, 0.5-A current flow		80	100 VA with 5-A inrush current, 0.5-A current flow		50	100 VA with 5-A inrush current, 0.5-A current flow		50

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Details on Safety-standard-certified Models, LY□

- Standard models are certified for the UL, CSA, and SEV safety standards.
- Refer to *Model Number Structure* on page 1 for a list of applicable models.
- The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

UL-certified Models (File No. E41643)

Model	Coil ratings	Number of poles	Contact ratings	Certified number of operations
LY	6 to 240VAC 6 to 125VDC	1	15A, 120VAC (General use)	100,000 operations
			15A, 240VAC (General use)	6,000 operations
			15A, 30VDC (Resistive)	
			1/2HP, 120VAC	100,000 operations
			8.5FLA, 30LRA, 120VAC	
			TV-5, 120VAC	25,000 operations
			470VA, Pilot duty, 120VAC	6,000 operations
	6 to 240VAC 6 to 125VDC	2	15A, 120VAC (General use)	100,000 operations
			12A, 240VAC (General use)	6,000 operations
			7A, 250VAC (General use)	
			15A, 30VDC (Resistive)	
			5A, 38VDC (Resistive)	
			1/2HP, 120VAC	100,000 operations
			1/3HP, 240VAC	1,000 operations
			8.5FLA, 30LRA, 120VAC	100,000 operations
			5FLA, 50LRA, 50VDC	
			TV-3, 120VAC	25,000 operations
			345VA, Pilot duty, 120-240VAC	6,000 operations
			B300/R300	
	6 to 240VAC 6 to 125VDC	3 4	10A, 240VAC (General use) (Same polarity)	6,000 operations
			10A, 30VDC (General use) (Same polarity)	
			2A, 40VDC (Resistive) (Same polarity)	
			1/2HP, 240VAC	1,000 operations
			0.6A, 100VDC (Resistive) (Same polarity)	6,000 operations

CSA-certified Models (File No. LR31928)

Model	Coil ratings	Number of poles	Contact ratings	Certified number of operations
LY	6 to 240VAC 6 to 125VDC	1	15A, 120VAC (General use)	100,000 operations
			15A, 240VAC (General use)	6,000 operations
			15A, 30VDC (Resistive)	
			1/2HP, 120VAC	100,000 operations
			8.5FLA, 30LRA, 120VAC	
			TV-5, 120VAC	25,000 operations
			470VA, Pilot duty, 120VAC	6,000 operations
	6 to 240VAC 6 to 125VDC	2	15A, 120VAC (General use)	6,000 operations
			12A, 240VAC (General use)	
			7A, 250VAC (General use)	
			15A, 30VDC (Resistive)	
			5A, 38VDC (Resistive)	
			1/2HP, 120VAC	100,000 operations
			1/3HP, 240VAC	1,000 operations
			8.5FLA, 30LRA, 120VAC	100,000 operations
			5FLA, 50LRA, 50VDC	
			TV-3, 120VAC	25,000 operations
			345VA, Pilot duty, 120-240VAC	6,000 operations
			B300/R300 Pilot duty	
	6 to 240VAC 6 to 125VDC	3 4	10A, 240VAC (General use) (Same polarity)	6,000 operations
			10A, 30VDC (Resistive) (Same polarity)	
			1/8HP, 240VAC (Same polarity)	1,000 operations
			1/2HP, 240VAC (Same polarity)	
			1/3HP, 240VAC (Same polarity)	
			2A, 40VDC (Resistive)	6,000 operations
			0.6A, 100VDC (Resistive)	

TÜV-certified Models (File No. R50030064, EN 61810-1)

Model	Coil ratings	Number of poles	Contact ratings	Certified number of operations
LY□	6 to 240 VAC 6 to 110 VDC	1	15 A, 110 VAC resistive load	200,000 operations
			10 A, 110 VAC inductive load	
			10 A, 250 VAC resistive load	
			7A, 250 VAC inductive load	
			10 A, 30 VDC resistive load	
			7 A, 30 VDC inductive load	
	6 to 240 VAC 6 to 125 VDC	2	10 A, 250 VAC resistive load	50,000 operations
			10 A, 110 VAC resistive load	200,000 operations
			7.5A, 110 VAC inductive load	
			7A, 250 VAC resistive load	
			4 A, 250 VAC inductive load	
			7 A, 30 VDC resistive load	
			4 A, 30 VDC inductive load	
	6 to 240 VAC 6 to 110 VDC	3	10 A, 250 VAC resistive load	50,000 operations
			10 A, 110 VAC resistive load	100,000 operations
			7.5A, 110 VAC inductive load	
	6 to 240 VAC 6 to 125 VDC	4	10 A, 250 VAC resistive load	50,000 operations
			10 A, 110 VAC resistive load	100,000 operations
			7.5A, 110 VAC inductive load	

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- When ordering a model that is certified for VDE or Lloyd's Register (LR) standards, always specify "VDE-certified Model" or "LR Standard-certified Model" with your order.

VDE Certification (Certificate No. 6359, EN 61810-1)

Model	Coil ratings	Number of poles	Contact ratings	Certified number of operations
LY□-VD	6, 12, 24, 50, 110, or 220 VAC 6, 12, 24, 48, or 110 VDC	1	10 A, 220 VAC resistive load	200,000 operations
			7 A, 220 VAC inductive load	
			10 A, 28 VDC resistive load	
			7 A, 28 VDC inductive load	
		2	7 A, 220 VAC resistive load	
			4 A, 220 VAC inductive load	
			7 A, 28 VDC resistive load	
			4 A, 28 VDC inductive load	

LR-certified Models (File No. 00/10047)

Model	Coil ratings	Number of poles	Contact ratings
LY□	6 to 240 VAC 6 to 110 VDC	2	7.5 A, 230 VAC inductive load
		4	5 A, 24 VDC inductive load

Details on Safety-standard-certified Models, Sockets

UL-certified Models (File No. E87929)

Model	Ratings	Listed/Recognized
PTF-08-PU	10A 250V	Recognized
PTF-14-PU	10A 250V (Same polarity)	
PTFZ-08-E PTFZ-14-E	15A 250V (at 50 deg) 12A 250V (at 70 deg)	
PTF08A PT08	15A 250V	
PTF11A PTF14A PT11 PT14	10A 250V	

CSA-certified Models (File No. LR31928)

Model	Ratings	Class number
PTF-08-PU	10A 250V	3211 07
PTF-14-PU	10A 250V (Same polarity)	
PTFZ-08-E PTFZ-14-E	15A 250V (at 50 deg) 12A 250V (at 70 deg)	
PTF08A	15A 240V AC	
PTF11A PTF14A	10A 240V AC	

CE Marking Compliance

Model	EMC Directive	Low Voltage Directive	Machinery Directive	Safety Category
PTFZ-08-E PTFZ-14-E	Not applicable	○	Not applicable	1

Note: 1. CE compliance is achieved when used with a relay (LY).
2. The Safety Category refers to the maximum applicable category selected when constructing control system safety components. The category does not apply to individual components.

TÜV Rheinland certification

Model	Ratings	Standard number	Certification number
PTF-08-PU	10A 250V ✻1	EN 61984	R50327595
PTF-14-PU	10A 250V ✻2		
PTFZ-08-E PTFZ-14-E	15A 250V (at 50 deg) 12A 250V (at 70 deg)		R50438680

✻1. Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7A.
✻2. Ratings are for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7A.

Compliance with Electrical Appliances and Material Safety Act, LY□

All standard models comply with the Electrical Appliances and Material Safety Act.

Model	Coil ratings	Number of poles	Contact ratings
LY□	6 to 240 VAC 6 to 120 VDC	1	15 A at 200 VAC
		2 3 4	10A at 200 VAC

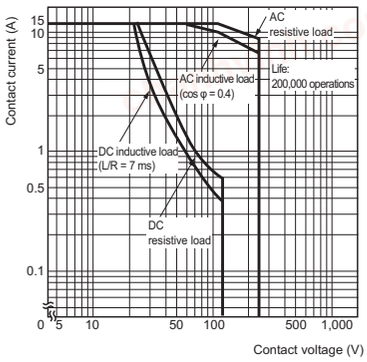
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Engineering Data

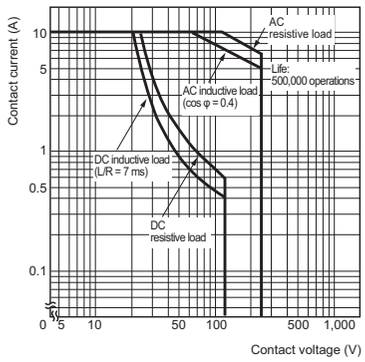
Engineering Data

Maximum Switching Capacity

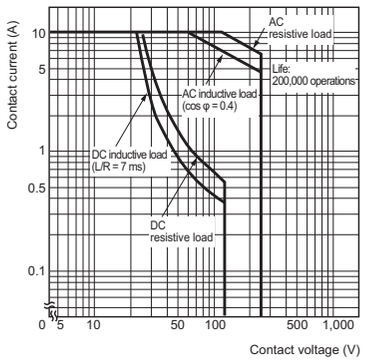
LY1



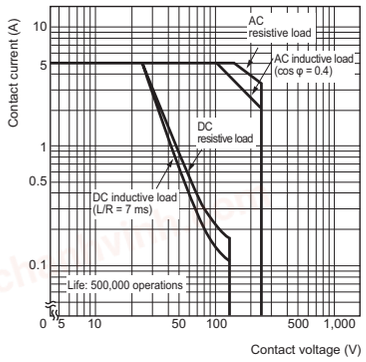
LY2



LY3 and LY4

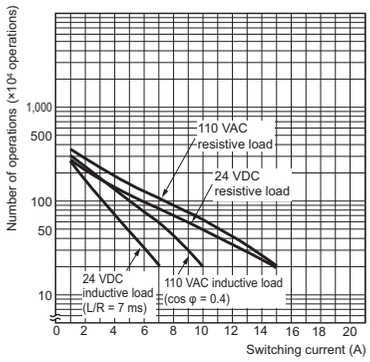


LY2Z

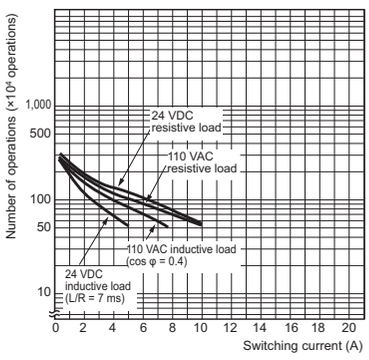


Endurance Curve

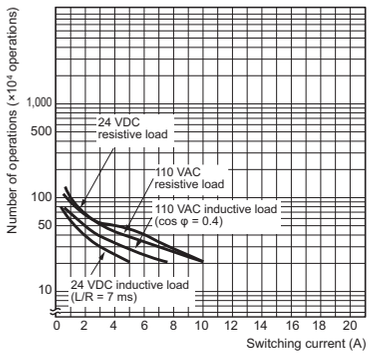
LY1



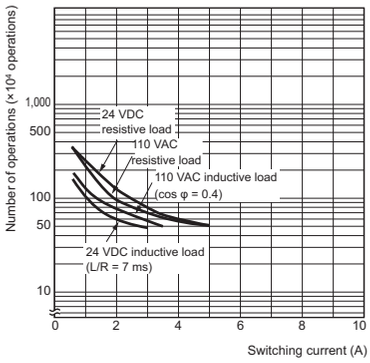
LY2



LY3 and LY4

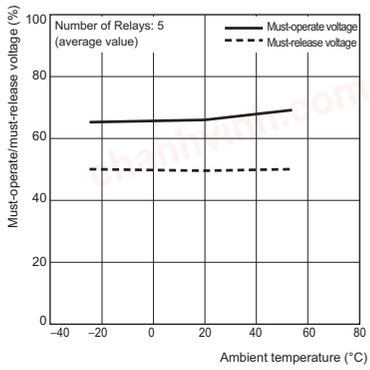


LY2Z



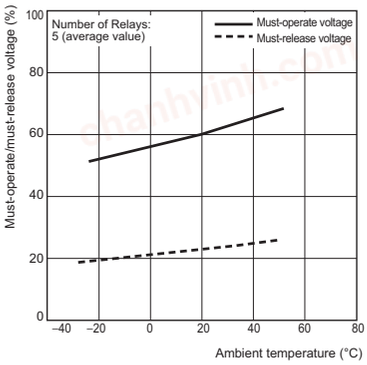
Ambient Temperature vs. Must-operate and Must-release Voltage

LY2 100/110 VAC at 50Hz

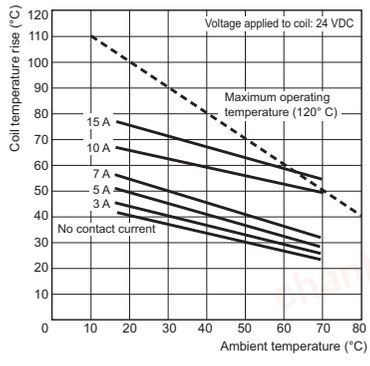


Ambient Temperature vs. Coil Temperature Rise

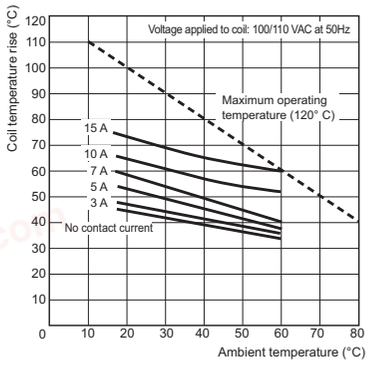
LY2 24 VDC



LY1 24 VDC

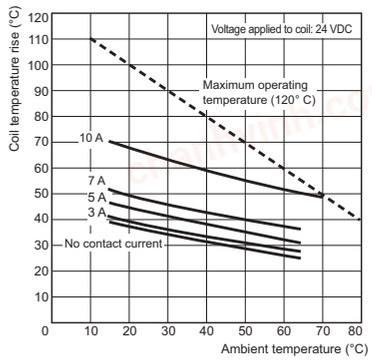


LY1 100/110 VAC

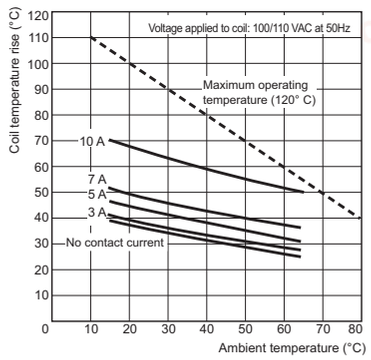


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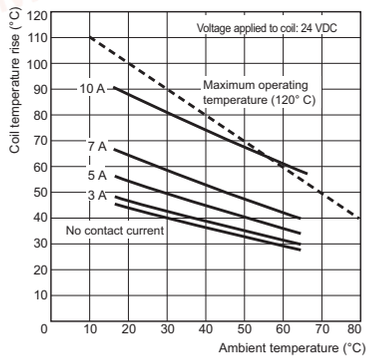
LY2 24 VDC



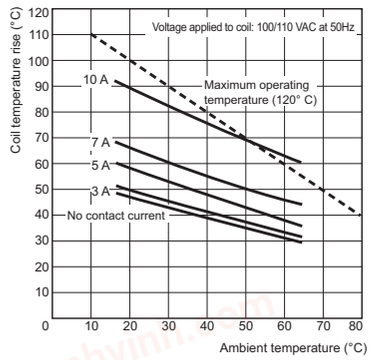
LY2 100/110 VAC



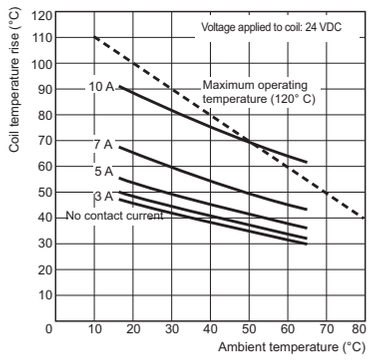
LY3 24 VDC



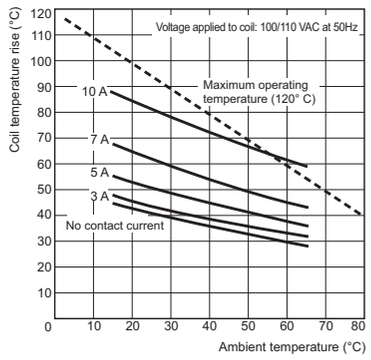
LY3 100/110 VAC



LY4 24 VDC



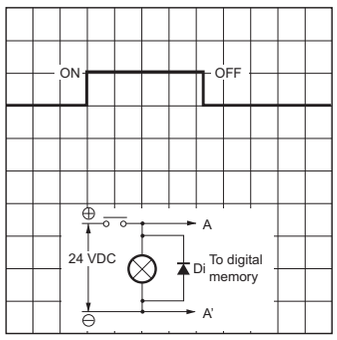
LY4 100/110 VAC



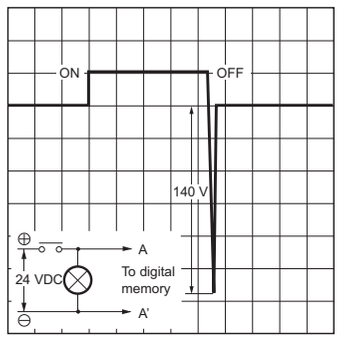
Models with built-in diodes

The diode absorbs surge from the coil.

With Diode



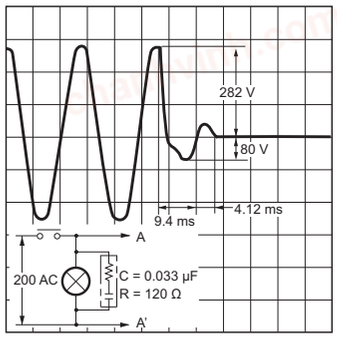
Without Diode



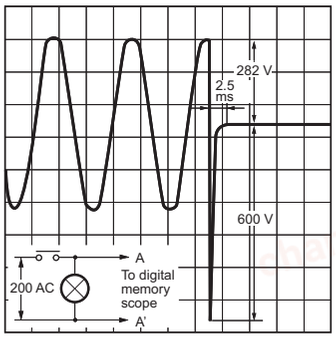
Note:
1. Make sure that the polarity is correct.
2. The release time will increase, but the 25-ms specification for standard models is satisfied.
3. Diode characteristics:
   Reversed dielectric strength: 1,000 V
   Forward current: 1 A

Models with Built-in CR Circuits

With CR



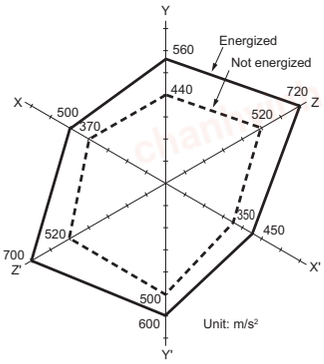
Without CR



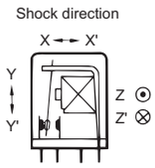
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Malfunctioning Shock

LY2 100/110 VAC



N = 20
Measurement: Shock was applied 2 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction.
Criteria: Non-energized: 200 m/s^2 , Energized: 200 m/s^2



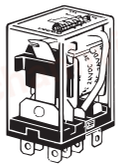
Dimensions

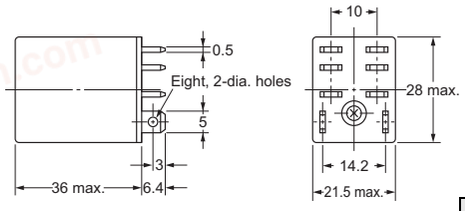
(Unit: mm)

Relays

Solder terminals

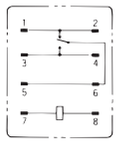
LY1
LY1N
LY1-D
LY1N-D2





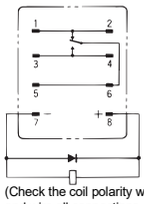
Terminal Arrangement/Internal Connections (Bottom View)

LY1

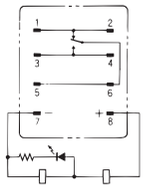
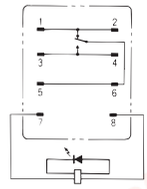


(The coil has no polarity.)

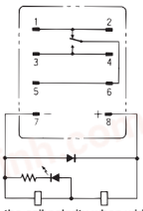
LY1-D



(Check the coil polarity when wiring and wire all connections correctly.)

LY1N	
DC Models	**AC Models**
 Check the coil polarity when wiring and wire all connections correctly.	 (The coil has no polarity.)

LY1N-D2



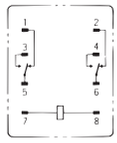
Check the coil polarity when wiring and wire all connections correctly.

Note: 1. For the DC models, check the coil polarity when wiring and wire all connections correctly.
2. The indicator is red for AC and green for DC.
3. The operation indicator indicates the energization of the coil and does not represent contact operation.

LY2 **LY2-D**
LY2Z **LY2Z-D**
LY2N **LY2N-D2**
LY2ZN **LY2ZN-D2**

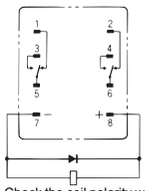
Terminal Arrangement/Internal Connections (Bottom View)

LY2(Z)

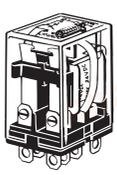


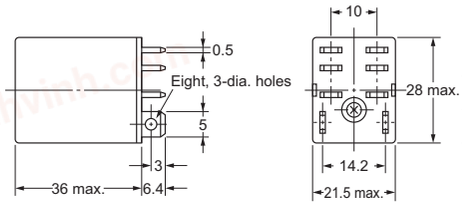
(The coil has no polarity.)

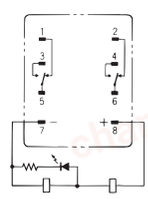
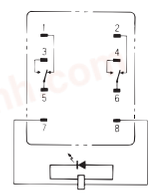
LY2(Z)-D



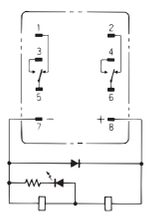
Check the coil polarity when wiring and wire all connections correctly.





LY2(Z)N	
DC Models	**AC Models**
 Check the coil polarity when wiring and wire all connections correctly.	 (The coil has no polarity.)

LY2(Z)N-D2

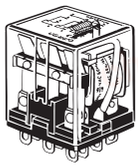


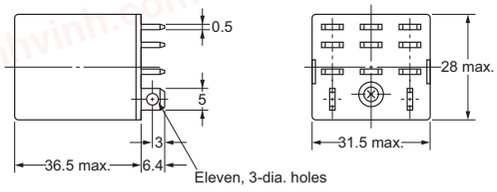
Check the coil polarity when wiring and wire all connections correctly.

Note: 1. For the DC models, check the coil polarity when wiring and wire all connections correctly.
2. The indicator is red for AC and green for DC.
3. The operation indicator indicates the energization of the coil and does not represent contact operation.

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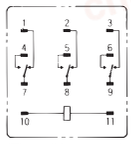
LY3
LY3N
LY3-D
LY3N-D2





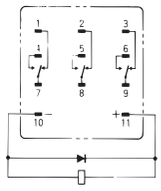
Terminal Arrangement/Internal Connections (Bottom View)

LY3



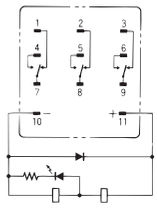
(The coil has no polarity.)

LY3-D

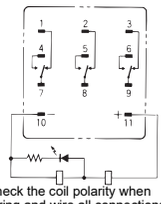
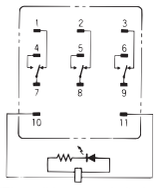


Check the coil polarity when wiring and wire all connections correctly.

LY3N-D2

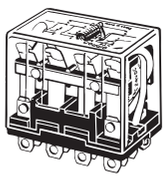


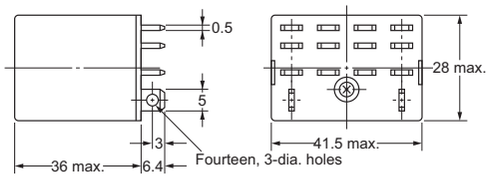
Check the coil polarity when wiring and wire all connections correctly.

LY3N	
DC Models	**AC Models**
 Check the coil polarity when wiring and wire all connections correctly.	 (The coil has no polarity.)

Note: 1. For the DC models, check the coil polarity when wiring and wire all connections correctly.
2. The indicator is red for AC and green for DC.
3. The operation indicator indicates the energization of the coil and does not represent contact operation.

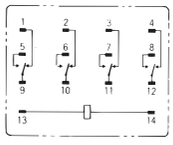
LY4
LY4N
LY4-D
LY4N-D2





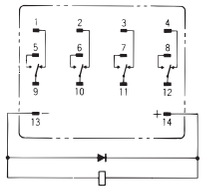
Terminal Arrangement/Internal Connections (Bottom View)

LY4



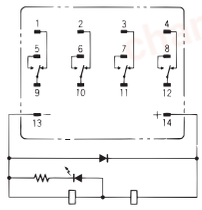
(The coil has no polarity.)

LY4-D

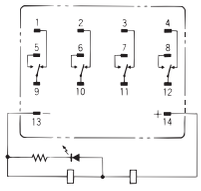
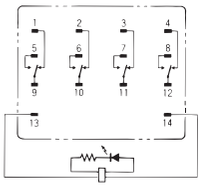


Check the coil polarity when wiring and wire all connections correctly.

LY4N-D2

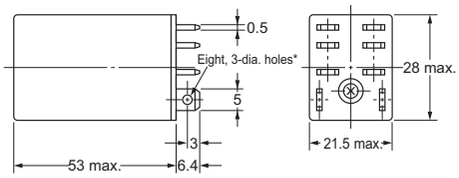


Check the coil polarity when wiring and wire all connections correctly.

LY4N	
DC Models	**AC Models**
 Check the coil polarity when wiring and wire all connections correctly.	 (The coil has no polarity.)

Note: 1. For the DC models, check the coil polarity when wiring and wire all connections correctly.
2. The indicator is red for AC and green for DC.
3. The operation indicator indicates the energization of the coil and does not represent contact operation.

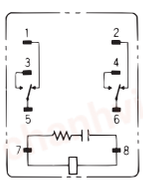
LY2-CR
LY2Z-CR
LY2N-CR
LY2ZN-CR



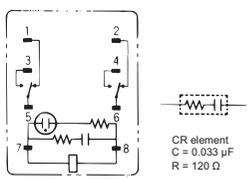
*These dimensions are for the LY2N-CR.

Terminal Arrangement/Internal Connections (Bottom View)

LY2(Z)-CR



LY2(Z)N-CR

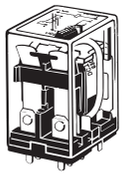


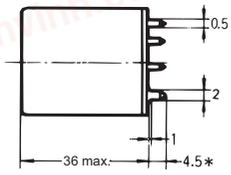
(The coil has no polarity.)

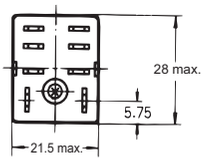
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Relays with PCB Terminals

LY1-0, LY3-0, LY2-0, and LY4-0

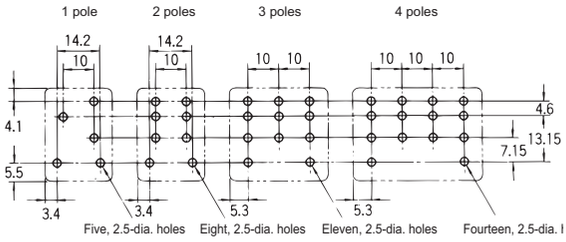






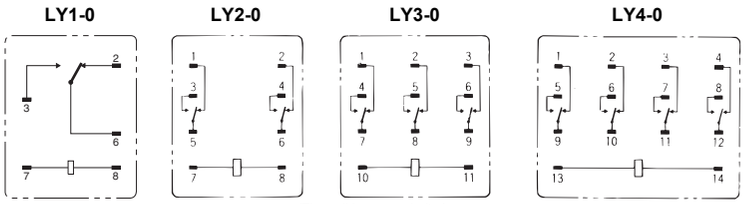
Note: The figures and dimensions depicted here are for the LY2-0. The dimension with an asterisk (*) is 6.4 for the LY1-0.

PCB Processing Dimensions (Bottom View)



Note: 1. The dimensional tolerance is 0.1 mm.
2. There are exposed parts (conductive parts) on the LY1-0 other than the terminals. Be careful when using this Relay on a double-sided PCBs.

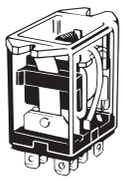
Terminal Arrangement/Internal Connections (Bottom View)

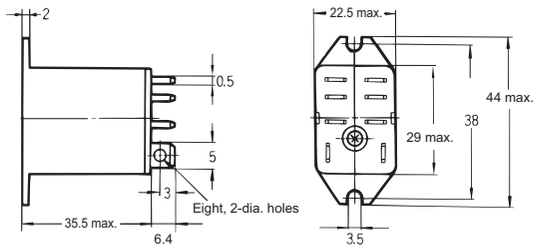


(The coil has no polarity.)

Case-surface mounting

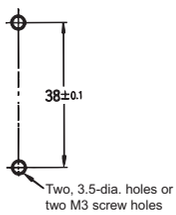
LY1F
LY2F





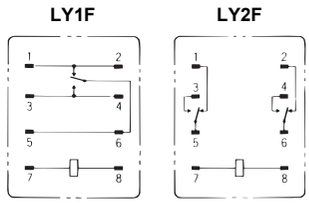
Note: The figures and dimensions depicted here are for the LY1F. The LY2F is also conforms to these measurements.

Mounting Hole Dimensions



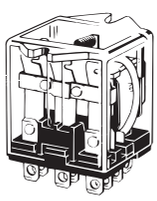
Note: The dimensional tolerance is ±0.1 mm.

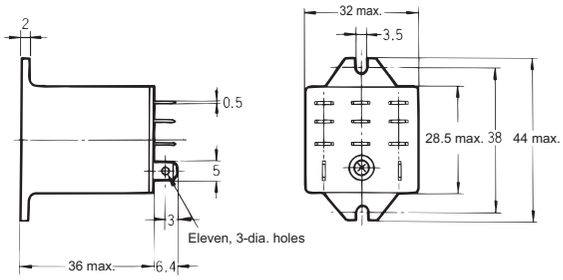
Terminal Arrangement/Internal Connections (Bottom View)



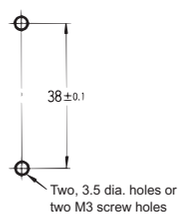
(The coil has no polarity.)

LY3F

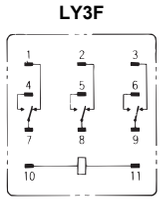




Mounting Hole Dimensions

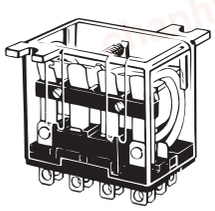


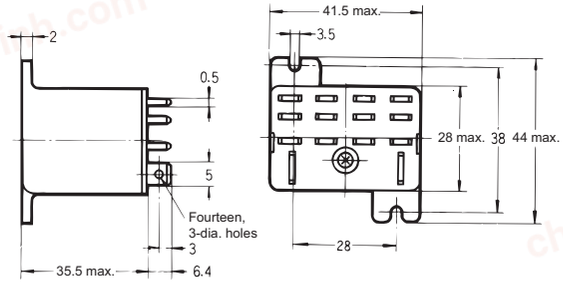
Terminal Arrangement/Internal Connections (Bottom View)



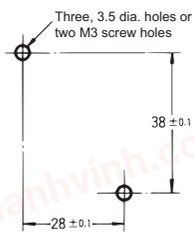
(The coil has no polarity.)

LY4F

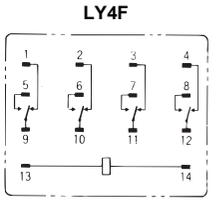




Mounting Hole Dimensions



Terminal Arrangement/Internal Connections (Bottom View)



(The coil has no polarity.)

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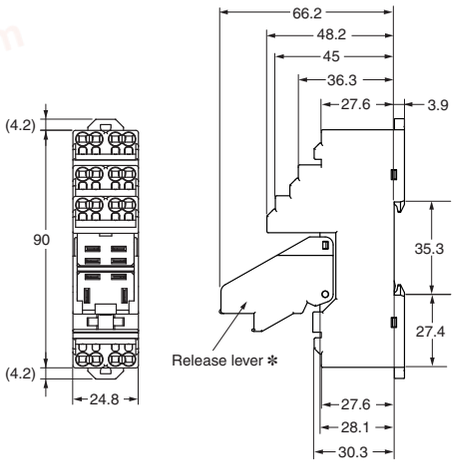
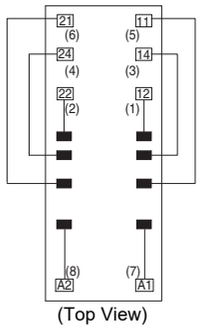
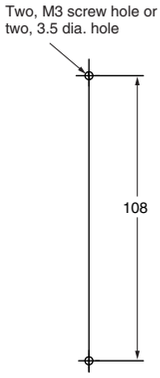
Accessories (Order Separately)

Socket Characteristics

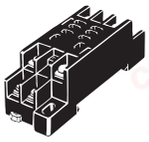
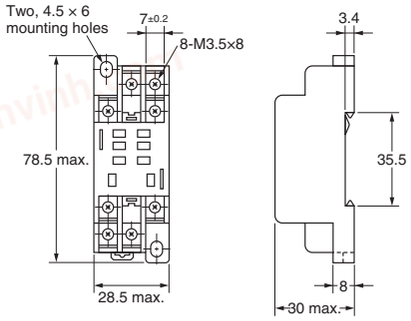
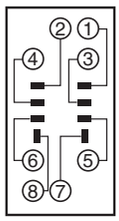
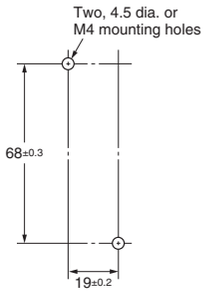
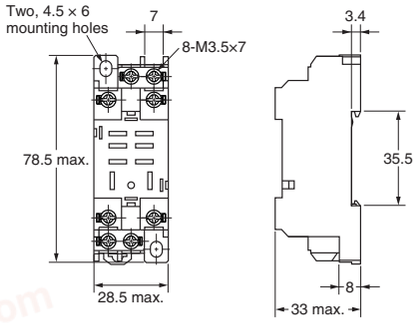
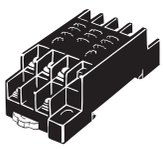
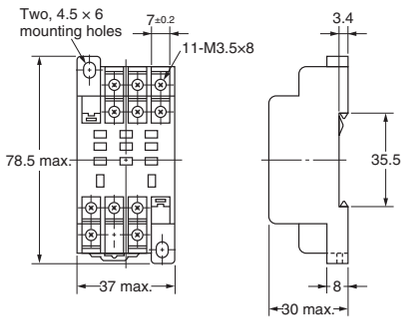
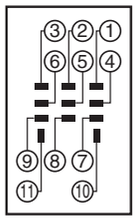
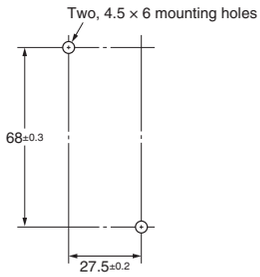
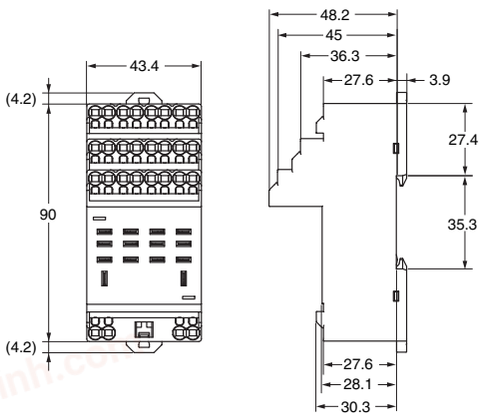
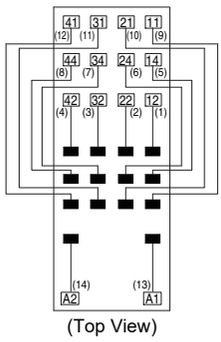
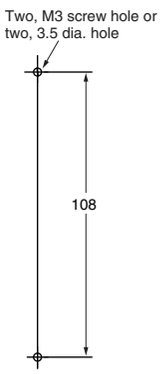
Model	Rated carry current	Dielectric strength	Insulation resistance *1	Remarks
PTF-□-PU(L)	10 A	Between contact terminals of same polarity: 2,000 VAC, 1 min	1,000 MΩ min.	
		Between contact terminals of different polarity: 2,000 VAC, 1 min		
		Between coil and contact terminals: 2,000 VAC, 1 min		
PTFZ-□□-E	12 A (@70°C) 15 A (@50°C) *2	Between contact terminals of different polarity: 2,500 VAC, 1 min	1,000 MΩ min.	
		Between contact terminals of same polarity: 2,500 VAC, 1 min		
		Between ground terminals: 2,500 VAC, 1 min		
		Between coil and contact terminals: 2,500 VAC, 1 min		
PTF□□A	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
PT-□□	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
PT□□-0	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
PT□□QN	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	

✻1. The insulation resistance was measured with a 500-VDC insulation resistance meter at the same places as those used for measuring the dielectric strength.
✻2. However, do not exceed the continuous carry current of the socket to be mounted.

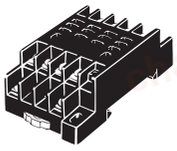
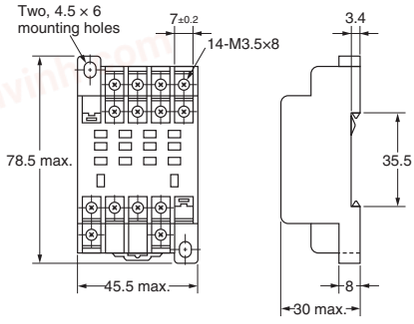
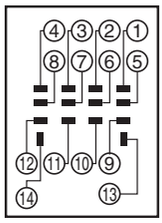
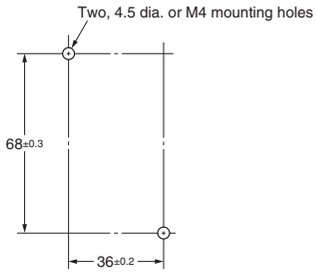
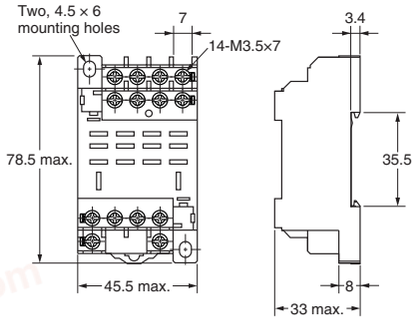
Connection Sockets

Dimensions	Terminal Arrangement/ Internal Connections	Mounting Hole Dimensions
PTF-08-PU(-L)   ✻ The PTF-08-PU-L Sockets do not have release levers.	 (Top View) **Note:** The numbers in parentheses are traditionally used terminal numbers.	 (Top View) **Note:** Pull out the hooks to mount the Relay with screws.

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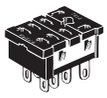
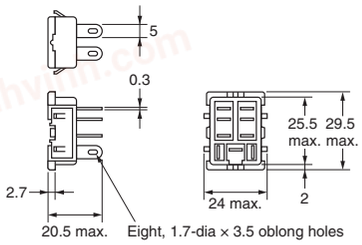
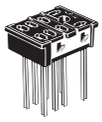
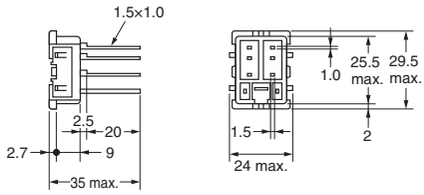
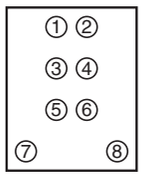
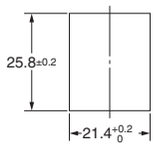
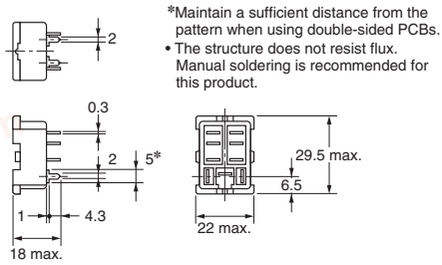
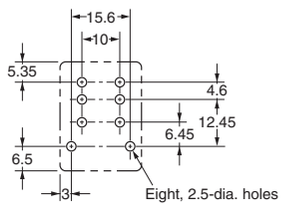
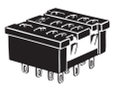
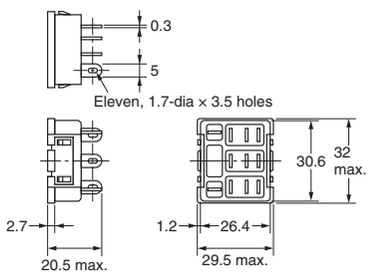
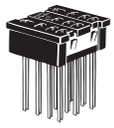
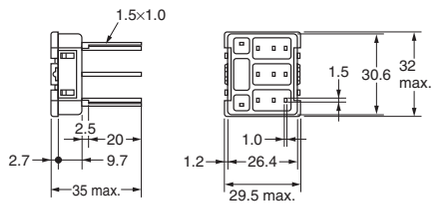
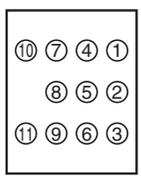
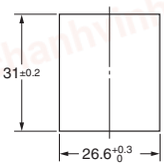
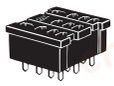
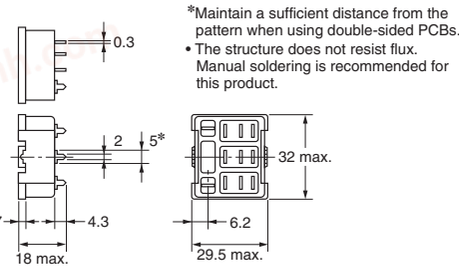
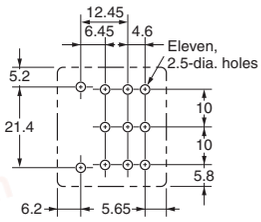
Dimensions	Terminal Arrangement/ Internal Connections	Mounting Hole Dimensions
PTF08A  	 (Top View)	 (Top View) **Note:** Track mounting is also possible.
PTFZ-08-E (Finger Protection Structure)  		
PTF11A  	 (Top View)	 (Top View) **Note:** Track mounting is also possible.
PTF-14-PU-L  	 (Top View) **Note:** The numbers in parentheses are traditionally used terminal numbers.	 (Top View) **Note:** Pull out the hooks to mount the Relay with screws.

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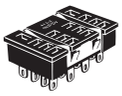
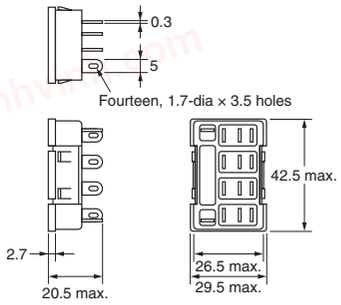
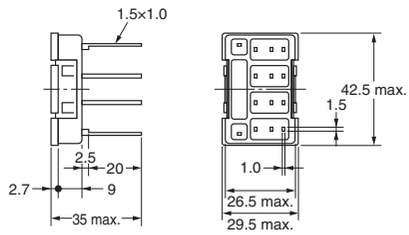
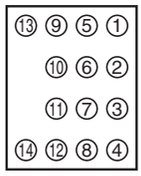
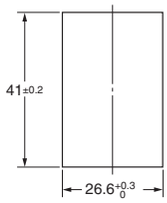
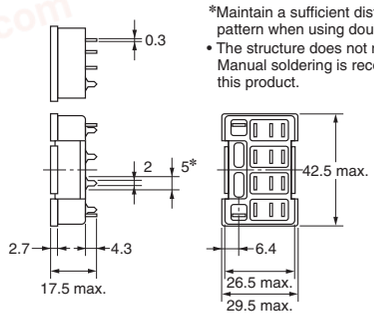
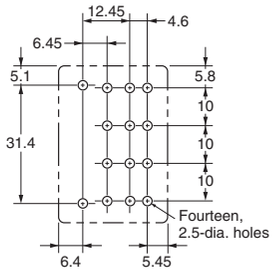
Dimensions	Terminal Arrangement/ Internal Connections	Mounting Hole Dimensions
PTF14A  	 (Top View)	 (Top View) **Note:** Track mounting is also possible.
PTFZ-14-E (Finger Protection Structure)  		

Note: If you use the PTF-08-PU, PTF-08-PU-L, PTF08A, PTFZ-08-E, or PT08 with an LY1 Relay, connect the following terminal pairs: 1-2, 3-4, and 5-6 (for usage at 10 A or higher).

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Dimensions	Terminal Arrangement/ Internal Connections	Mounting hole and PCB dimensions
PT08   **PT08QN**  	 (Bottom View)	
PT08-0  		 (±0.1 tolerance)
PT11   **PT11QN**  	 (Bottom View)	
PT11-0  		 (±0.1 tolerance)

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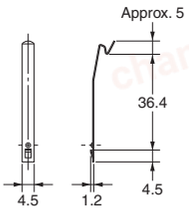
Dimensions	Terminal Arrangement/ Internal Connections	Mounting hole and PCB dimensions
PT14   **PT14QN**  	 (Bottom View)	
PT14-0  		 (±0.1 tolerance)

Note: Use a panel with a thickness of 1 to 2 mm when mounting a Socket on it.

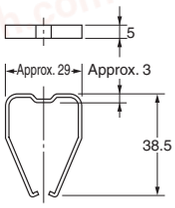
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Hold-down Clips

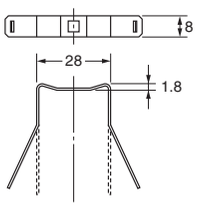
PYC-A1
Approx. 0.54 g (per clip)
One Set (2 Clips)



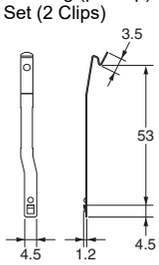
PYC-P
Approx. 1.4 g



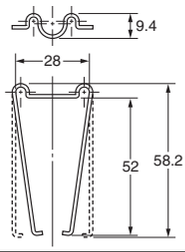
PYC-S
Approx. 1.8 g



Y92H-3
Approx. 0.7 g (per clip)
One Set (2 Clips)

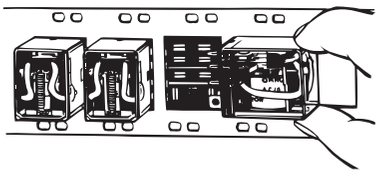


PYC-1
Approx. 6 g

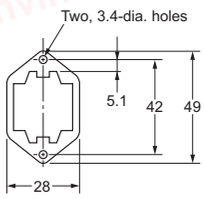


Socket Mounting Plates (t = 1.6)

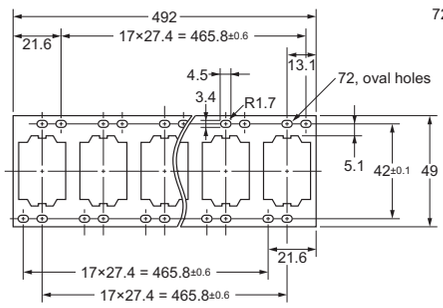
OMRON can provide Socket Mounting Plate for convenient Socket installation. Please use these Plates as required.



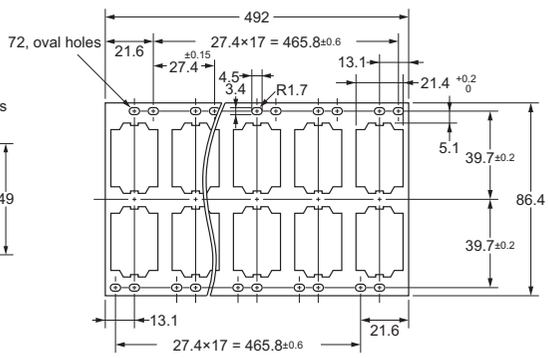
PYP-1



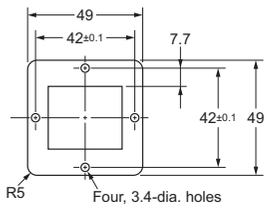
PYP-18



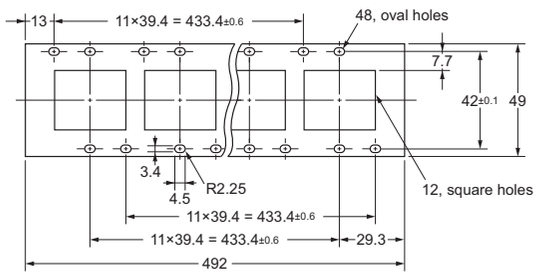
PYP-36



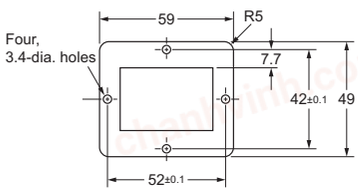
PTP-1-3



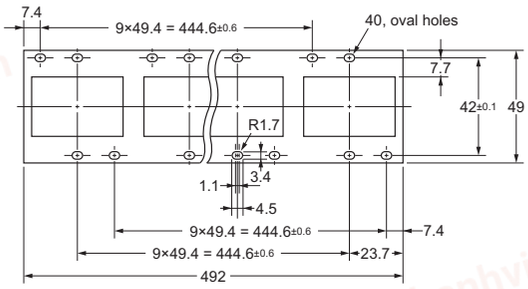
PTP-12



PTP-1



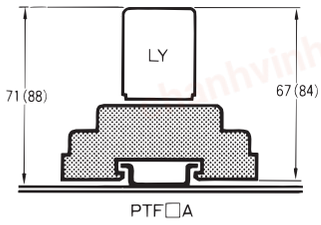
PTP-10



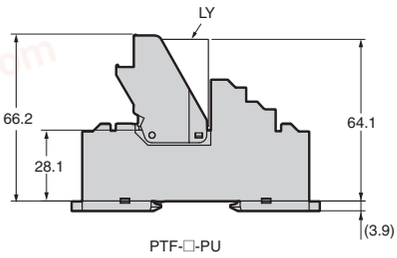
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Mounting Height with Sockets

Front-mounting Sockets

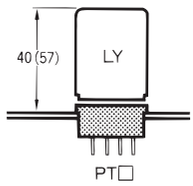


PTF□A

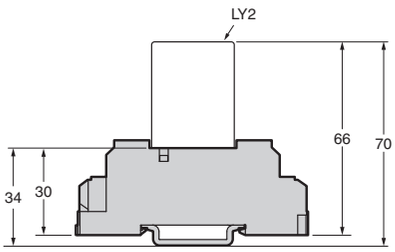


PTF-□-PU

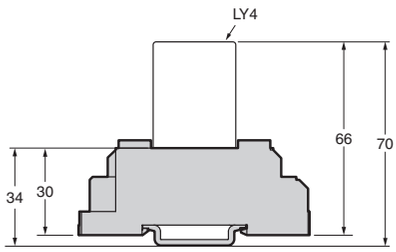
Back-mounting Sockets



PT□



PTFZ-08-E



PTFZ-14-E

Note: **1.** The PTF□A can be mounted on a track or with screws.
2. The measurements in parentheses are for the LY□-CR (built-in CR circuit).

Safety Precautions

Refer to the *Common Relay Precautions* for precautions that apply to all Relays.

Precautions for Correct Use

- Use two M3 screws to attach case-surface-mounted models (LY1F, LY2F, LY3F, and LY4F) and tighten the screws securely. (Normal tightening torque: 0.98 N·m)
- For Relays with Tab Terminals, select a wire diameter for the lead wires that connect to the faston receptacle terminals that is within the allowed range for the load current.
- Do not impose excessive external force on the Relay when inserting the Relay to the faston receptacle or pulling the Relay out from the faston receptacle. Do not attempt to insert a terminal diagonally or insert or pull out more than one terminal at the same time.
- LY Single-contact Relays are for power switching applications. Do not use the LY Series for switching minute loads of 100 mA or less, such as signals.

About the Built-in Diode and CR Elements

The diode or CR element that are built into the Relay are designed to absorb the reverse voltage from the Relay coil. If a large surge in voltage is applied to the diode or CR element from an external source, the element will be destroyed.
If there is the possibility of large voltage surges that could be applied to the elements from an external source, take any necessary surge absorption measures.

Applying 10 A or More When Using an LY1 with the Following Sockets

When you use an LY1 in combination with the PTF-08-PU, PTF-08-PU-L, PTF08A, PTFZ-08-E, or PT08, connect each of the following terminal pairs: (1) to (2), (3) to (4), and (5) to (6).

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Attaching and Removing Relay Hold-down Clips

When you attach a Hold-down Clip to or remove it from a Socket, wear gloves or take other measures to prevent injuring your fingers on the Hold-down Clip.

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

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Change in Specifications.
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Errors and Omissions.
Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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In the interest of product improvement, specifications are subject to change without notice.

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