General-purpose Relay

Slim and Space-saving Power Plug-in Relay

- Reduces wiring work by 60% when combined with the P2RF-□-PU Push-In Plus Socket (according to actual OMRON measurements).
- Lockable test button models available.
- Built-in mechanical operation indicator.
- Provided with nameplate.
- AC type is equipped with a coil-disconnection self-diagnostic function (LED type).
- High switching power (1-pole: 10 A).

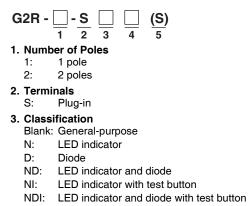
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For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model Number Structure

Model Number Legend



Note: Contact your OMRON representative for Relays with gold-plated contacts.

- 4. Rated Coil Voltage
- 5. Mechanical operation indicator and Nameplate
 - (S): Models with mechanical operation indicator and Nameplate

Ordering Information When your order, specify the rated voltage.

List of Models

Classification	Coil ratingo	Contact form		
	Coil ratings	SPDT	DPDT	
General-purpose		G2R-1-S (S)	G2R-2-S (S)	
LED indicator	AC 24, 48, 110, 120, 230, 240 DC 6, 12, 24, 48	G2R-1-SN (S)	G2R-2-SN (S)	
LED indicator with test button		G2R-1-SNI (S)	G2R-2-SNI (S)	
Diode		G2R-1-SD (S)	G2R-2-SD (S)	
LED indicator and diode	DC 6, 12, 24, 48	G2R-1-SND (S)	G2R-2-SND (S)	
LED indicator and diode with test button		G2R-1-SNDI (S)	G2R-2-SNDI (S)	

Note: 1. The standard models are compliant with UL/CSA and VDE standards. Also, an EC compliance declaration has been made for combinations with the P2RF-E, P2RF-S and P2RF-PU. The Relays bear the CE Marking.
2. Refer to *Connecting Sockets*, below, for applicable Socket models.

3. When ordering, add the rated coil voltage and "(S)" to the model number. Rated coil voltages are given in the coil ratings table. Example: G2R-1-S 12 VDC (S)

Rated coil voltage

Accessories (Order Separately)

Connecting Sockets

Track/surface-mounting Socket

Applicable relay model*1	Mounting Method	Conductive part protection	Terminal Type	Applicable crimp terminal/ Electric wire	Exclusive short bar (Order Separately)	Appearance	Model
	Available		Push-In Plus Terminal	Ferrules Solid wire Stranded wire	Available		P2RF-05-PU *2
G2R-1-S	Mounted on a DIN track or		Screw terminal (M3 screw size)	Forked terminals Solid wire Stranded wire	Available		P2RFZ-05-E *4 <u>NEW</u>
	with screws	Option (Terminal cover sold separately) *3		Round terminals Forked terminals	Available		P2RFZ-05 <u>NEW</u>
	None	None	(M3.5 screw size)	Solid wire Stranded wire	None		P2RF-05
		Available	Push-In Plus Terminal	Ferrules Solid wire Stranded wire	Available	and the second	P2RF-08-PU *2
G2R-2-S	A2R-2-S Mounted on a DIN track or with screws Option (Terminal cov		Screw terminal (M3 screw size)	Forked terminals Solid wire Stranded wire	Available		P2RFZ-08-E *4 <u>NEW</u>
		(Terminal cover sold separately)	Screw terminal	Round terminals Forked terminals	Available		P2RFZ-08 <u>NEW</u>
		None	(M3.5 screw size)	Solid wire Stranded wire	None		P2RF-08

*1. The applicable relay model is a plug-in terminal type.

*2. There are screw mounting holes in the DIN hooks on the P2RF-D-PU. Pull out the DIN hook tabs to mount the Sockets with screws.

*3. Terminal cover type is P2CZ-Z. (Order Separately) For details, refer to the on page 6.

*4. The finger-protection type (P2RFZ-□-E) is a type in which the terminal cover is integrated into the socket. Round terminals cannot be used. Use forked terminals or ferrules instead.

Applicable Relay model	Mounting Method	Appearance	Models
	PCB terminals		P2R-05P
G2R-1-S	FOD leminais		P2R-057P
	Solder terminals		P2R-05A
	PCB terminals		P2R-08P
G2R-2-S	PCB terminais		P2R-087P
	Solder terminals	BUIL B	P2R-08A

Back-mounting Socket

For Push-In Plus Terminal Block Sockets

Short Bars

Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	L (Length)	Insulation color	Short Bars Model*1	
			l	2	15.1		PYDN-7.75-020	
	7.75	Bridging contact		3	22.85		PYDN-7.75-030	
	7.75 mm	terminals (common)			4	30.6		PYDN-7.75-040
P2RF-05-PU				20	154.6	Red (R) Blue (S)	PYDN-7.75-200	
P2RF-08-PU	15.5 mm	For Coil terminals	3.90 115.85 12 12 2.25 1.57	8	115.55	Yellow(Y)	PYDN-15.5-080□	

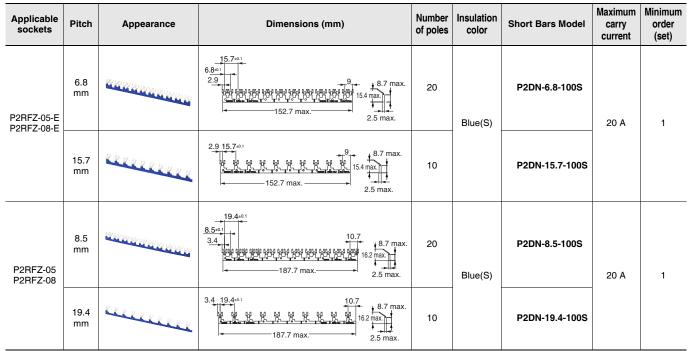
*1. Replace the box (\Box) in the model number with the code for the covering color. \Box Color selection: R = Red, S = Blue, Y = Yellow

Labels

Applicable sockets	Model
P2RF-05-PU P2RF-08-PU	XW5Z-P4.0LB1 (1 sheet/60 pieces)

For Screw Terminal Sockets

Short Bars

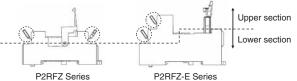


Note: 1. Select an applicable type of short bars by checking applicable socket type, appearance, and dimensions.

2. Use the Short Bars for crossover wiring within one Socket or between Sockets.

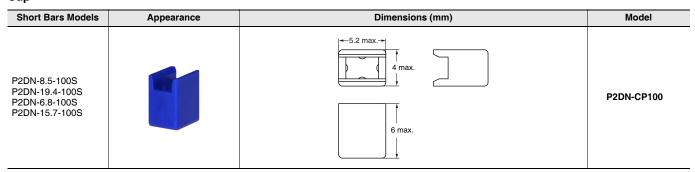
Cannot be used on the P2RF-05, P2RF-08.

4. Use the short bars on the lower section of the socket. When using the short bars on the upper section of the socket, insert them so that their heads are pointed upwards (see the figure below). Otherwise, short bars may interfere with the socket, leading to improper wiring and contact failure.



* One set (order unit) contains 10 short bars and 20 caps.

Accessories for Short Bars (P2DN) Cap



1.5

For Screw Terminal Sockets (P2RFZ-05/P2RFZ-08)

Terminal covers

Applicable sockets	Appearance	Model	Minimum order (set)
P2RFZ-05 P2RFZ-08		P2CZ-C	

- Note: 1. These covers cannot be used for P2RF-05 and P2RF-08.
 - 2. Use these covers in a combination with P2RFZ-05 and P2RFZ-08.
 - Do not install short bars (optional) on the upper section (see the figure below). Short bars may interfere with the terminal cover, making the terminal cover unusable.



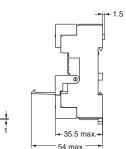
Dimensions with terminal cover P2RFZ-05

71.5 ma

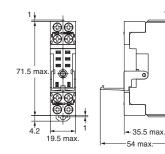
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P2RFZ-08



Labels

Applicable sockets	Model	Minimum order (sheet) (quantity per sheet)
P2RFZ-□-E	XW5Z-P2.5LB1	5 1 sheet (72 pieces)

Note: This label cannot be applied on sockets other than P2RFZ-□-E.

Mounting Tracks

Applicable Socket	Description		Model	Minimum order (quantity)
		50 cm (l) × 7.3 mm (t):	PFP-50N	
	Mounting track	1 m (l) × 7.3 mm (t):	PFP-100N	
Track-connecting Socket		1 m (l) × 16 mm (t):	PFP-100N2	
	End plate *1		PFP-M	10
	Spacer		PFP-S	10
Back-connecting Socket	Mounting plate *2		P2R-P	1

*1. When mounting DIN rail, please use End Plate (PFP-M).

*2. Used to mount several P2R-05A and P2R-08A Connecting Sockets side by side.

Specifications

Coil Ratings

Rat	ted voltage	Rated current*		Coil resistance		ctance (H) /alue)	Must operate voltage	Must release voltage	Max. voltage	Power consumption	
		50 Hz	60 Hz		Armature OFF	Armature ON	%	of rated volt	age	(approx.)	
	24 V	43.5 mA	37.4 mA	253 Ω	0.81	1.55					
	48 V	21.8 mA	18.8 mA	1,040 Ω	3.12	6.17		000/	20% may 110%		
AC	110 V	9.5 mA	8.2 mA	5,566 Ω	13.33	26.83	- 80% max. 30				
AC	120 V	8.6 mA	7.5 mA	7,286 Ω	16.13	32.46		– 80% max. 30% max. _	30% max.	0% max. 110%	0.9 VA at 60 Hz
	230 V	4.4 mA	3.8 mA	27,172 Ω	72.68	143.90					
	240 V	4.2 mA	3.7 mA	27,800 Ω	90.58	182.34	_				

Rat	ted voltage	oltage Rated current* Coil		Coil inductance (H) Coil (ref. value)		Must operate voltage	Must release voltage	Max. voltage	Power consumption
	Ē		resistance	Armature OFF	Armature ON	%	% of rated voltage		(approx.)
	6 V	87.0 mA	69 Ω	0.25	0.48				0.50.04
DC	12 V	43.2 mA	278 Ω	0.98	2.35	70% max. 15% m)% max. 15% min	110%	
DC	24 V	21.6 mA	1,113 Ω	3.60	8.25			11070	0.53 W
	48 V	11.4 mA	4,220 Ω	15.2	29.82				

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 ±10% 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 is the maximum possible value of the voltage that can be applied to the relay coil. It is not the maximum voltage that can be applied continuously.

Contact Ratings

Number of poles	1 pole		2 poles		
Load	Resistive load $(\cos\phi = 1)$			Inductive load ($\cos\phi = 0.4$; L/R = 7 ms)	
Rated load	10 A at 250 VAC; 10 A at 30 VDC			2 A at 250 VAC; 3 A at 30 VDC	
Rated carry current	10 A		5 A		
Max. switching voltage	440 VAC, 125 VDC		380 VAC, 125 VDC		
Max. switching current	10 A		5 A		
Max. switching power	2,500 VA, 1,875 VA, 300 W 150 W		1,250 VA, 150 W	500 VA, 90 W	
Failure rate (reference value) *	100 mA at 5 VDC		10 mA at 5 VDC		

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

* This value was measured at a switching frequency of 120 operations per minute.

Characteristics

Item		1 pole	2 poles				
Contact configration	SPDT	PDT					
Contact structure	Single						
Contact resistance	100 m Ω max.						
Operate (set) time	15 ms max.						
Release (reset) time		x.; DC: 5 ms max. le: 20 ms max.)	AC: 15 ms max.; DC: 10 ms max. (w/built-in diode: 20 ms max.)				
Max. operating frequency	Mechanical: Electrical:						
Insulation resistance	1,000 MΩ min	1,000 MΩ min. (at 500 VDC)					
Dielectric strength *	contacts;	0/60 Hz for 1 min between coil and /60 Hz for 1 min between contacts of	5,000 VAC, 50/60 Hz for 1 min between coil and contacts; 3,000 VAC, 50/60 Hz for 1 min between contacts of different polarity 1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity				
Vibration resistance	Destruction: Malfunction:		amplitude (1.5 mm double amplitude) amplitude (1.5 mm double amplitude)				
Shock resistance	Destruction: Malfunction:	1,000 m/s ² 200 m/s ² when energized; 100 m/s	^{s² when not energized}				
Endurance	Mechanical: Electrical:	AC coil: 10,000,000 operations min.; DC coil: 20,000,000 operations min. (at 18,000 operations/hr) 100,000 operations min. (at 1,800 operations/hr under rated load)					
Ambient temperature	Operating:	-40° C to 70° C (with no icing or co	ndensation)				
Ambient humidity	Operating:	5% to 85%					
Weight	Approx. 20 g						

Note: Values in the above table are the initial values.

* These values are relay only. Prease refer to the "Products Related to Common Sockets and DIN Tracks Data Sheet" for connecting sockets.

Approved Standards UL 508 (File No. E41643)

			•	
Model	Contact form	Coil ratings	Contact ratings	Opera- tions
G2R-1-S (S)	G2R-1-S (S) SPDT		10 A, 30 VDC (resistive) 10 A, 250 VAC (general use)	100 × 10 ³
			TV-3 (NO contact only)	25 × 10 ³
G2R-2-S (S)			5 A, 30 VDC (resistive) 5 A, 250 VAC (general use)	100 × 10 ³
			TV-3 (NO contact only)	25 × 10 ³

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

Model	Contact form	Coil ratings	Contact ratings	Opera- tions
G2R-1-S (S)	SPDT	5 to 110 VDC	10 A, 30 VDC (resistive) 10 A, 250 VAC (general use)	100 × 10 ³
			TV-3 (NO contact only)	25 × 10 ³
G2R-2-S (S)	6 to 240 VAC		5 A, 30 VDC (resistive) 5 A, 250 VAC (general use)	100 × 10 ³
			TV-3 (NO contact only)	25 × 10 ³

IEC/VDE (Certificate No. 40015012 EN 61810-1)

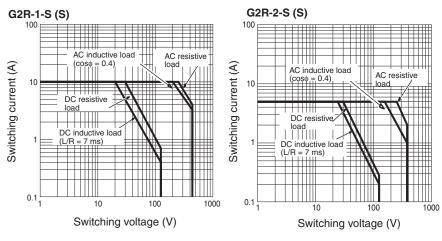
Contact form	Coil ratings	Contact ratings	Operations
1 pole	6, 12, 24, 48 VDC 24, 110, 120, 230, 240 VAC	5 A, 440 VAC (cos¢ = 1.0) 10 A, 250 VAC (cos¢ = 1.0) 10 A, 30 VDC (0 ms)	100 × 10 ³
2 poles	6, 12, 24, 48 VDC 24, 110, 120, 230, 240 VAC	5 A, 250 VAC (cosø =1.0) 5 A, 30 VDC (0 ms)	100 × 10 ³

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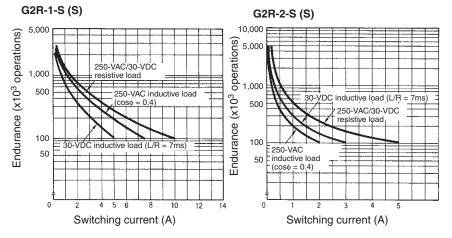
Number of poles	Coil ratings	Contact ratings	Operations
1 pole	5 to 110 VDC 6 to 240 VDC	10 A, 250 VAC (general use) 7.5 A, 250 VAC (PF0.4) 10 A, 30 VDC (resistive) 5A, 30VDC (L/R=7ms)	100 × 10 ³
2 poles	oles 5 to 110 VDC 5 A, 250 VAC (general use) 2 A, 250 VAC (PF0.4) 5 A, 30 VDC (resistive) 3A, 30VDC (L/R=7ms)		100 × 10 ³

Engineering Data

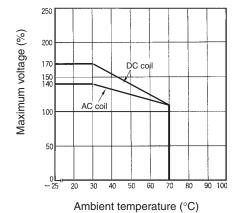
Maximum Switching Power



Endurance



Ambient Temperature vs Maximum Coil Voltage



G2R-1-SD (S) (DC)

41

Dimensions

(Unit: mm)

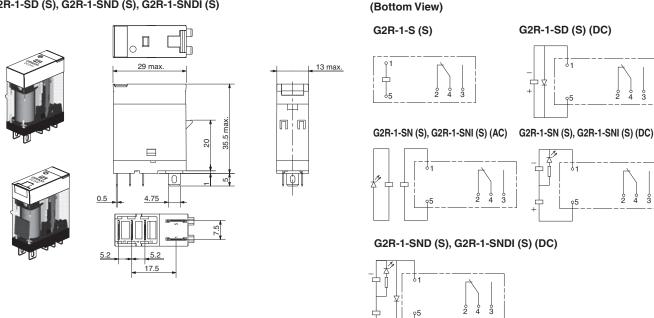
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Note: All units are in millimeters unless otherwise indicated.

SPDT Relays

G2R-1-S (S), G2R-1-SN (S), G2R-1-SNI (S) G2R-1-SD (S), G2R-1-SND (S), G2R-1-SNDI (S)



DPDT Relays

G2R-2-S (S), G2R-2-SN (S), G2R-2-SNI (S) G2R-2-SD (S), G2R-2-SND (S), G2R-2-SNDI (S)

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ΠT

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29 max

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Terminal Arrangement/Internal Connections

Terminal Arrangement/Internal Connections

G2R-2-SN (S), G2R-2-SNI (S) (AC)

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(Bottom View)

G2R-2-S (S)

91

13 max.

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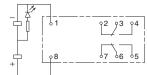
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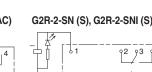
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G2R-2-SN (S), G2R-2-SNI (S) (DC) °2 °3 °4 61

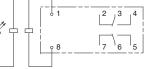


G2R-2-SND (S), G2R-2-SNDI (S) (DC)



G2R-2-SD (S) (DC)

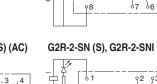


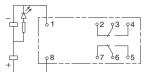


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08

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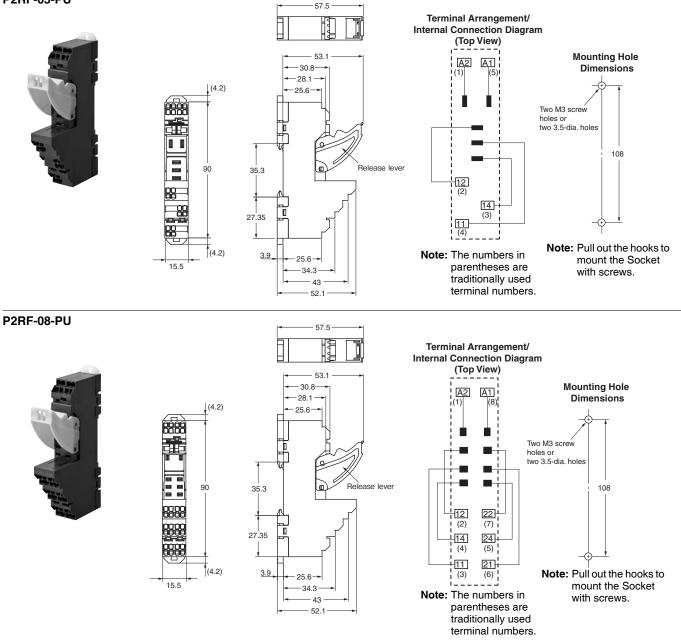
Accessories (Order Separately)

Socket Characteristics

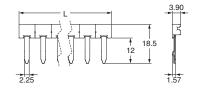
Model	Continuous carry current	Dielectric strength	Insulation resistance*	Remarks	
P2RF-05-PU 10 A	10.4	Between contact terminals of same polarity: 1,000 VAC for 1 min	1.000 MO min		
	10 A	Between coil and contact terminals: 4,000 VAC for 1 min	– 1,000 MΩ min.		
		Between contact terminals of different polarity: 3,000 VAC for 1 min			
P2RF-08-PU	6 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.		
		Between coil and contact terminals: 4,000 VAC for 1 min			
P2RFZ-05(-E)	10 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	- 1.000 MΩ min.		
F2RFZ-05(-E)	IUA	Between coil and contact terminals: 4,000 VAC for 1 min	1,000 1/152 11111.		
		Between contact terminals of different polarity: 3,000 VAC for 1 min			
P2RFZ-08(-E)	6 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.		
		Between coil and contact terminals: 4,000 VAC for 1 min			
P2RF-05	10.4	Between contact terminals of same polarity: 1,000 VAC for 1 min	1.000 MO min		
P2RF-05	10 A	Between coil and contact terminals: 4,000 VAC for 1 min	– 1,000 MΩ min.		
		Between contact terminals of different polarity: 3,000 VAC for 1 min			
P2RF-08	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.		
		Between coil and contact terminals: 4,000 VAC for 1 min			
P2R-05P	10 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1.000 MO min		
P2R-05P	10 A	Between coil and contact terminals: 4,000 VAC for 1 min	– 1,000 MΩ min.		
		Between contact terminals of different polarity: 3,000 VAC for 1 min			
P2R-08P	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.		
		Between coil and contact terminals: 4,000 VAC for 1 min			
P2R-057P	10 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1.000 MΩ min.		
P2R-057P	10 A	Between coil and contact terminals: 5,000 VAC for 1 min	- 1,000 WIS2 Min.		
		Between contact terminals of different polarity: 3,000 VAC fo	Between contact terminals of different polarity: 3,000 VAC for 1 min		
P2R-087P	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.		
		Between coil and contact terminals: 5,000 VAC for 1 min			
		Between contact terminals of same polarity: 1,000 VAC for 1 min			
P2R-05A	10 A	Between ground terminals: 1,500 VAC for 1 min	1,000 MΩ min.		
		Between coil and contact terminals: 4,000 VAC for 1 min			
		Between contact terminals of different polarity: 3,000 VAC for 1 min			
P2R-08A	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.		
FZN-UOA	ЭA	Between ground terminals: 1,500 VAC for 1 min	1,000 10122 111111.		
		Between coil and contact terminals: 4,000 VAC for 1 min			

* The insulation resistance was measured with a 500-VDC insulation resistance meter at the same places as those used for measuring the dielectric strength.

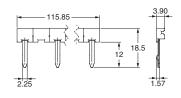
Track/Surface Mounting Sockets P2RF-05-PU



Accessories for P2RF-□-PU Short Bars PYDN-7.75-□□ (7.75 mm)



PYDN-15.5-080 (15.5 mm)

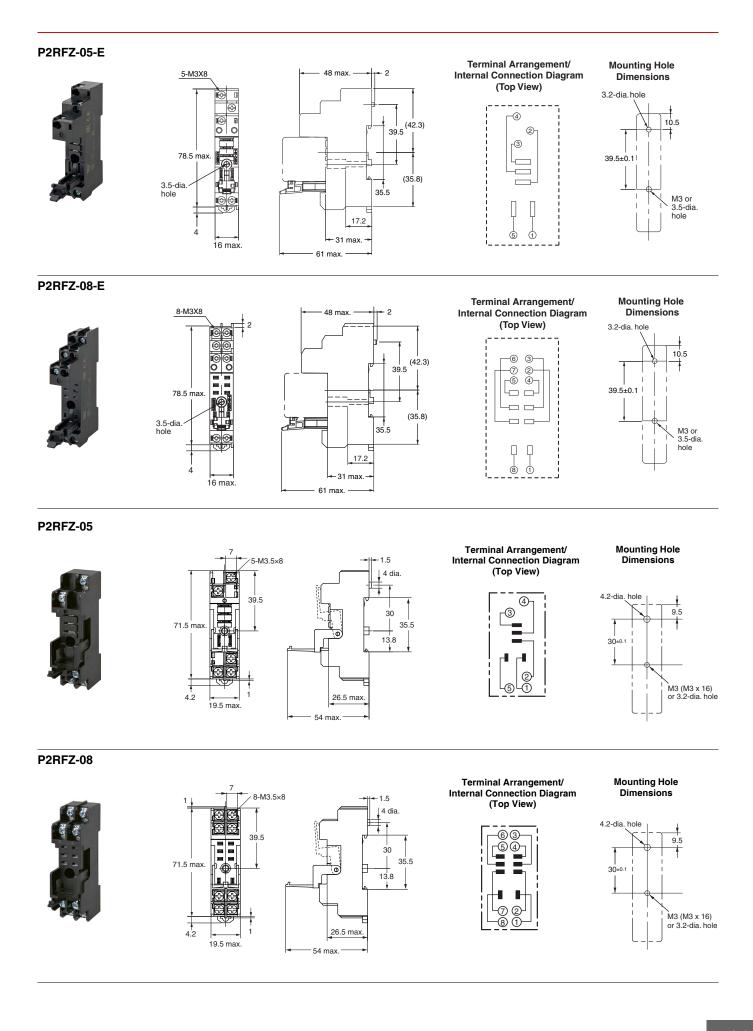


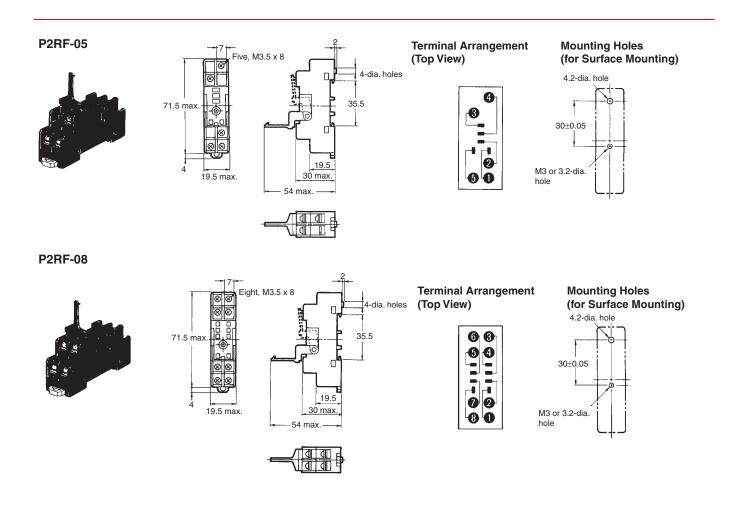
Application	Pitch	No. of poles	L (Length)	Colors	Model *	Maximum carry current	
For Contact terminals (common)	7.75 mm	7.75	2	15.1		PYDN-7.75-020	
			3	22.85		PYDN-7.75-030	
		4	30.6	Red (R) Blue (S)	PYDN-7.75-040	20 A	
			20	154.6	Yellow (Y)	PYDN-7.75-200	2071
For Coil terminals	15.5 mm	8	115.85	-	PYDN-15.5-080		

* Replace the box (\Box) in the model number with the code for the covering color.

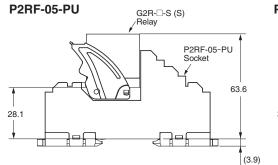
Note: 1. Use the Short Bars for crossover wiring within one Socket or between Sockets.
2. When using short bar to coil terminals of PYF-□□-PU, make sure to use PYDN-31.0-080□ (31 mm).

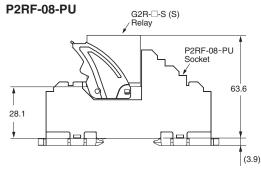
When using short bar to coil terminals of P2RF-D-PU, make sure to use PYDN-15.5-080D (15.5 mm).





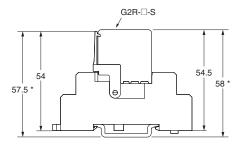
Mounting Height of Relay with Track/Surface Mounting Sockets

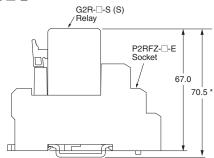


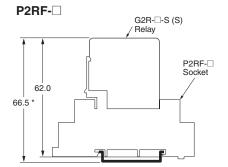










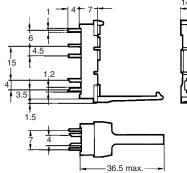


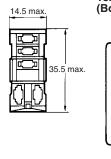
* These are values when using the DIN track PFP-□N. Heights become higher by approximately 9 mm when using PFP-□N2.

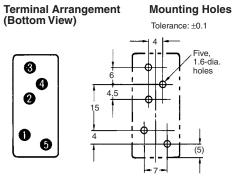


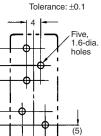
P2R-05P (1-pole)





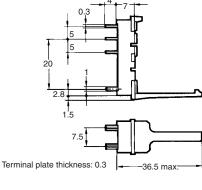






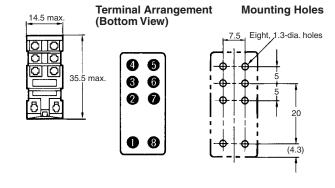
P2R-08P (2-pole)



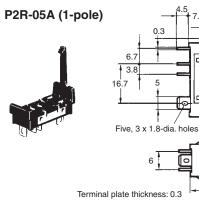


7.5

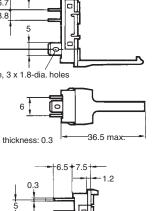
1.2

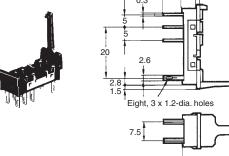


Terminal Arrangement (Bottom View)

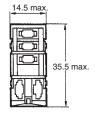


P2R-08A (2-pole)





Terminal plate thickness: 0.3 -----36.5 max.

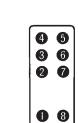


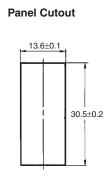
14.5 max.

0_0

35.5 max.

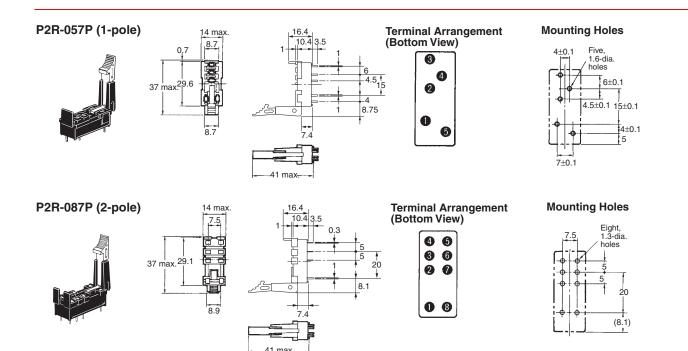




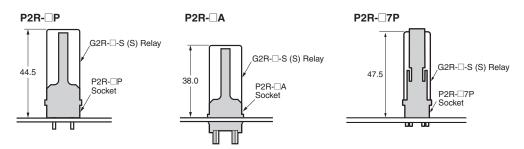


Recommended thickness of the panel is 1.6 to 2.0 mm

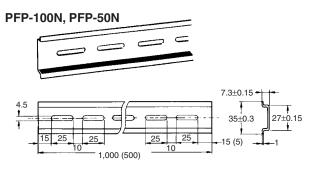
OMRON



Mounting Height of Relay with Back-connecting Sockets

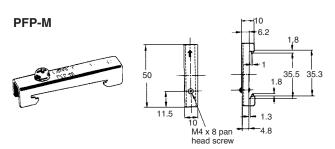


Mounting Tracks



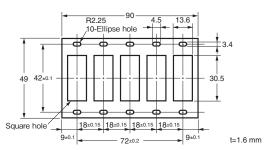
It is recommended to use a panel 1.6 to 2.0 mm thick.

End Plate

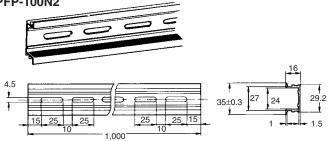


Mounting Plate

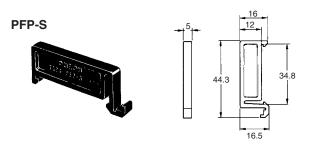
P2R-P



PFP-100N2



Spacer



Safety Precautions

Be sure to read the *Common Precautions for All Relay* in the website at the following URL: http://www.ia.omron.com/.

Refer to *Products Related to Common Sockets and DIN Tracks* for precautions on the applicable Sockets. Refer to *PYF-*____-PU/P2RF-____-PU for precautions on Push-In Plus Terminal Block Sockets.

Warning Indications

	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing to prevent failure to operate, malfunction, or undesirable effects on product performance.

Cation

- Do not use the test button for any purpose other than testing. Be sure not to touch the test button accidentally as this will turn the contacts ON. Before using the test button, confirm that circuits, the load, and any other connected item will operate safely.
- Check that the test button is released before turning ON relay circuits.
- If the test button is pulled out too forcefully, it may bypass the momentary testing position and go straight into the locked position.
- Use an insulated tool when you operate the test button.

Precautions for Correct Use

About the Built-in Diodes

The diodes that are built into the Relays are designed to absorb reverse voltage from the Relay's coil. If a large surge in voltage is applied to the diode 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.

Latching Levers

- Turn OFF the power supply when operating the latching lever. After you use the latching lever always return it to its original state.
- Do not use the latching lever as a switch.
- The latching lever can be used for 100 operations minimum.

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.

Coil tape color

Pink tape is used for the AC coil type and blue tape is used for the DC coil type, making it easy to distinguish AC and DC.

Screw terminal socket

• Use the following tightening torque for screws during wiring.

Model	Tightening torque
P2RF-05 P2RF-08	0.78 to 1.18 N·m
P2RFZ-05-E P2RFZ-08-E P2RF-05-E P2RF-08-E	0.59 to 0.88 N⋅m *Use a No. 1 screwdriver.

• Use the following wire diameters as a guide for wiring. (Select the appropriate wire diameter for the current used.)

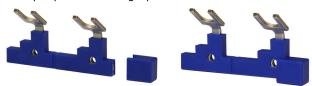
Model	Recommended wire diameter (mm ²)			
P2RF-05	Stranded wire	0.75 to 2.5 mm ² AWG 18 to 14		
P2RF-08	Solid wire	0.75 to 2.0 mm ² AWG 18 to 14		
P2RFZ-05-E P2RFZ-08-E	Stranded wire	0.75 to 2.5 mm ² AWG 18 to 14		
P2RF-05-E P2RF-08-E	Solid wire	0.75 to 1.5 mm ² AWG 18 to 16		

Using a short-circuit bar

- Use the short-circuit bar that is suitable for the socket you are using and the location of use.
- Note that the P2DN short-circuit bar for the P2RFZ-E Socket has both a short-circuit bar for shorting coil terminals and a short-circuit bar for shorting contact COM terminals.
- The short-circuit bar can be cut to match any number of poles. Cut with a tool as appropriate for the number of relays and sockets.
 When using a cut short-circuit bar, take care to avoid injuring yourself on the cut surface.
- When cutting with a tool, insert the tool from the plastic part and cut along the slot in the plastic part between terminals. If you cut a part other than the slot in the plastic part between terminals, it may not be possible to attach the insulating cap.



 When using a cut short-circuit bar (P2DN), always use the provided cap to protect the charger part.



- Use the short-circuit bar to short-circuit two or more coil terminals, or two or more contact COM terminals.
- Do not use a deformed short-circuit bar. Risk of failure, malfunctioning, or deterioration of characteristics.
- In socket terminals, insert the short-circuit bar in the correct orientation all the way into all terminals, and then secure with screws.
- Install the short -circuit bar before wiring.

Equivalent Labels from Other Companies and Recommended Label Printers

Use the following label printer.

The following table gives the manufacturer's model number as of March 2017.

Manufacturer	Omron	Phoenix Contact	Weidmuller	Cembre
Label	XW5Z-P4.0LB1	UCT-TM6	MF 10/6	MG-CPM-04 41391
	XW5Z-P2.5LB2	UCT-TMF5		
Label printer	*	BLUEMARK CLED, THERMOMA RK CARD SET PLUS, THERMOMA RK CARD	PrintJet ADVCANCED, Plotter MCP Plus, Plotter MCP Basic	Markingenius MG3

* When using a printing tool, use a Phoenix Contact label printer. Note: Ask the label manufacturer or printer manufacturer for details. Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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