General-purpose Relays and Power Relays Sockets







Relay Type Track Mou Sockets		Sockets			
		Solder terminals	PCB terminals		
G2R-1-S	P2RF-05 P2RF-05-E P2RF-05-S	P2R-05A	P2R-05P		
G2R-2-S	P2RF-08 P2RF-08-E P2RF-08-S	P2R-08A	P2R-08P		
LY1, LY2	PTF08A-E	PT08	PT08-0		
LY3	PTF11A	PT11	PT11-0		
LY4	PTF14A-E	PT14	PT14-0		
MK2	PF083A-E	PL08	PLR08-0		
МКЗ	PF113A-E	PL11	PLE11-0		
MY2	PYF08A-E PYF08A-N PYF08-S	PY08	PY08-02		
MY3	PYF11A	PY11	PY11-02		
MY4	PYF14A-E PYF14A-N PYF14S	PY14	PY14-02		
MY2K	PYF14A-E	PY14	PY14-02		
MY4(Z)H	PYF14A-E	_	-		



Relay Type	Bracket	Irack Mount Adaptor	Track Mount Socket
G7J-(ALL)	R99-04-FOR-G5F W bracket	-	-
G7L-1A-T	R99-07G5D E bracket	P7LF-D	P7LF-06
G7L-1A-TJ	_		P7LF-06
G7L-1A-B			
G7L-1A-BJ			
G7L-2A-T			P7LF-06
G7L-2A-TJ	_		P7LF-06
G7L-2A-B			-
G7I -2A-B.I			_

Mounting Track	Length	
PFP-100N	1 meter	
PFP-50N	.5 meter	



Square Sockets

Item	P2RF (Track-mounting) *see page 246			P7TF (Track- mounting) *see page 249		
	Scre	w terminal	Solder terminal	PCB te	erminal	Screw terminal
5 pins	P2RF-05 Approx. 27 g	P2RF-05-E Approx. 38 g	P2R-05A Approx. 5 g	P2R-05P Approx. 5 g	P2R-057P Approx. 5.5 g	P7TF-05 Approx. 28 g
8 pins	P2RF-08 Approx. 33 g	P2RF-08-E Approx. 38 g	P2R-08A Approx. 5 g	P2R-08P Approx. 5 g	P2R-087P Approx. 5.5 g	

Note:
-E Models are of finger-protect construction. Round terminals cannot be used. Use Y-shaped terminals.

Square Sockets

Item	PYF (Track- mounting) *see page 250		PY (back-connecting *see page 252	3)	PTF (Track- mounting) *see page 253	(PT (back-connecting *see page 255)
	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal
8 pins	PYF08A Approx. 32 g	PY08 Approx. 8 g	PYQ08QN Approx. 12 g	PY08-02 Approx. 7.2 g	PTF08A Approx. 39 g	PT08 Approx. 11 g	PT08QN Approx. 10.4 g	PT08-0 Approx. 8 g
		PY08-Y1						
	PYF08A-E		PYQ08QN2		PTF08A-E			
	PYF08A-N	ылана РҮ08-ҮЗ	PYQ08QN-Y1 PYQ08QN2-Y1					

Note: □-E and □-N Models are of finger-protect construction. Round terminals cannot be used. Use Y-shaped terminals.

Item	PYF (Track- mounting) *see page 250	PY (back-connecting) *see page 252		PY (back-connecting) *see page 252		PTF (Track- mounting) *see page 253	PT (back-connecting) *see page 255		ig)
	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal	
11 pins	PYF11A Approx. 46 g	PY11 Approx. 9 g	PY11QN PY11QN2	PY11-02	PTF11A Approx. 50 g	PT11 Approx. 13 g	PT11QN	PT11-0 Approx. 12.2 g	
						U B R V B			
		PY11-Y1	PY11QN-Y1 PY11QN2-Y1						
14 pins	PYF14A Approx. 49 g PYF14A-E PYF14A-E PYF14A-N VF14A-N PYF14T Approx. 53 g	PY14 Approx. 10 g PY14-Y1 PY14-Y1 PY14-Y2	PY14QN PY14QN2 Approx. 14 g PY14QN-Y1 PY14QN2-Y1 PY14QN2-Y1 PY14QN2-Y2 PY14QN2-Y2	PY14-02	PTF14A Approx. 60 g PTF14A-E	PT14 Approx. 17 g	PT14QN Approx. 20 g	PT14-0 Approx. 16.2 g	



Item	P7LF (Track-mounting) *see page 256				
	Screw terminal				
6 pins	P7LF-06 Approx. 60 g				

Item	P7S *see page 257					
	Screw terminal (Track-mounting)	Solder terminal	PCB terminal			
14 pins	P7S-14F Approx. 75 g	P7S-14A Approx. 10 g	P7S-14P Approx. 10 g			
	and a second	E CEL				

Round Sockets

Item	PF (Track-	P2CF (Track-	PFA (Track-	P3G (Track-	P3G PL (Track- (back-connecting) *see page 261		
	mounting) *see page 258	mounting)	mounting)	mounting)	Solder terminal	Wrapping terminal	PCB terminal
8 pins	PF083A Approx. 34 g PF083A-E PF085A Approx. 40 g	P2CF-08 Approx. 55 g	8PFA Approx. 57 g 8PFA1 Approx. 66 g	P3G-08 Approx. 40 g	PL08 Approx. 14 g	PLO8-Q Approx. 15 g	PLE08-0 Approx. 10.6 g
11 pins	PF113A Approx. 47 g PF113A-E	P2CF-11 Approx. 70 g	11PFA Approx. 74 g	P3GA-11 (see note) Approx. 47 g	PL11 Approx. 15 g	PL11-Q Approx. 18.5 g	PLE11-0 Approx. 10.8 g
14 pins			14PFA Approx. 104 g		PL15 Approx. 28 g		
20 pins	PF202 Approx. 170 g				PL20 Approx. 17 g		

Note: This model succeeds the P3G-11 for which production was stopped in March 1991.

■ Hold-down Clips

For Square Sockets







For Round Sockets





Note: There are 2 pieces per set.

■ Models Used with Sockets

Group	Model	Pin No.	. Socket		
			Front-connecting	Back-connecting	
MY(K)	MY2	8	PYF	PY	
	MY3	11			
	MY4, MY2K	14			
LY	LY1, LY2	8	PTF	PT	
	LY3	11			
	LY4	14	-		
G2A(K)	G2A, G2A-434, G2AK	14	PYF	PY	
MK(K)	MK2P	8	PF083A(-E)	PL	
	МКЗР, МК2КР	11	PF113A(-E)		
MM(K)	MM2(X)P	8	8PFA		
	MM3P, MM2(X)KP	11	PFA		
	MM3XP, MM3(X)KP, MM4(X)P, MM4(X)KP	14			
G4Q		8	8PFA1		
G7L	G7L-□A-T(J)	6	P7LF		

■ Models Used with Hold-down Clips

Square Sockets

Item	PYF□A(-E, -N), PTF□A(-E)	PY□(QN), PT□(QN)	PY□-02, PT□-0
MY(), MY()N, MY()N-D2, MY()N-CR, MY2K, LY(), LY()N, G3H, G3F, G3FD, G3FM	PYC-A1	PYC-P, PYC-S	PYC-P
MY4IN		PYC-P, PYC-P2	PYC-P, PYC-P2
MY2IN	PYC-E1	PYC-P2	PYC-P2
LY()-CR	Y92H-3	PYC-1	PYC-1
G2A(K) Series	PYC-A2	PYC-2, PYC-3, PYC-5	PYC-3, PYC-5

Note: Pin numbers 08, 11, or 14 apply to \Box .

Round Sockets

Item	PF083A, PF113A	PL08(-Q), PL11(-Q)	PLE08-0, PLE11-0
MK2P Series, MK2KP, MK3P⊟ (-US), G3B	PFC-A1	PLC	PLC-10
MK3ZP, MK3LP		PLC-1	
MYA-NA1, -NB1, MYA-LA1, -LB1, MYA-NA2, -NB2 MYA-LA2, -LB2	PFC-A6	PLC-7	
MYA-LA12, -LB12	PFC-A7	PLC-8	

Note: 1. 8PFA(I), 11PFA, and 14PFA has hooks that can hold a Relay.

2. PL15, PL20, PF202, and Sockets that are not listed in the above table should be mounted to a panel after opening mounting holes on the panel.

3. A Hold-down Clip for PF085A is sold together with Relays that can be used with PF085A.

■ Socket Performance Characteristics

Item	em Carry current Dielectric strength		Insulation resistance (see note 2)	
P2RF-05(-E)	10 A	Between contacts of same polarity: 1,000 VAC for 1 min Between coil and contact: 4,000 VAC for 1 min	1,000 MΩ min.	
P2RF-08(-E)	5 A	Between contact of different polarity: 3,000 VAC for 1 min Between contacts of same polarity: 1,000 VAC for 1 min Between coil and contact: 4,000 VAC for 1 min	1,000 MΩ min.	
P2R-057P	10 A	Between contacts of same polarity: 1,000 MΩ min. 1,000 VAC for 1 min Between coil and contact: 5,000 VAC for 1 min min		
P2R-087P	5 A	Between contact of different polarity: 3,000 1,000 MΩ min. VAC for 1 min Between contacts of same polarity: 1,000 VAC for 1 min Between coil and contact: 5,000 VAC for 1		
P2R-05A	10 A	Between contacts of same polarity: 1,000 VAC for 1 min Between ground terminal and other termi- nals: 1,500 VAC for 1 min Between coil and contact: 4,000 VAC for 1 min	1,000 MΩ min.	
P2R-08A	5 A	Between contact of different polarity: 3,000 VAC for 1 min Between contacts of same polarity: 1,000 VAC for 1 min Between ground terminal and other termi- nals: 1,500 VAC for 1 min Between coil and contact: 4,000 VAC for 1 min	1,000 MΩ min.	
P7TF-05	5 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
PYF08A-E	7 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PYF08A-N	7 A (see note 3)	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PYF11A	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PYF14A-E	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PYF14A-N	5 A (see note 3)	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PY08(-Y1)	7 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY08QN(-Y1)	7 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY08-02	7 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY11(-Y1)	5 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY11QN(-Y1)	5 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY11-02	5 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY14(-Y1)	3 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY14QN(-Y1)	3 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY14-02	3 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PTF	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 QN	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.	

Item	Carry current	Dielectric strength	Insulation resistance (see note 2)
P7LF-06	30 A	Between contact of different polarity: 2,000 VAC for 1 min Between contacts of same polarity: 2,000 VAC for 1 min Between coil and contact: 4,000 VAC for 1 min	1,000 MΩ min.
PF□□□A	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
P2CF	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
P3G(A)	6 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
8PFA(1)	10 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
11PFA(1)	10 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
PL□□(-Q)	10 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
PLE -0	10 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.
P6D-04P	5 A	Between contacts of same polarity: 1,000 VAC for 1 min Between coil and contact: 3,000 VAC for 1 min	100 MΩ min.
P7S-14□	6 A	Between terminals: 2,500 VAC for 1 min Between ground terminal and other termi- nals (P7S-14A): 2,000 VAC for 1 min	100 MΩ min.

Note: 1. The values given above are initial values.

2. The values for insulation resistance were measured at 500 V at the same place as the dielectric strength.

3. The maximum operating ambient temperature for the PYF08A-N and PYF14A-N is 55°C. When using the PYF08A-N or PYF14A-N at an operating ambient temperature exceeding 40°C, reduce the current to 60%.

■ Track and Accessories

Mounting Track PFP-100N PFP-50N



Mounting Track PFP-100N2



End Plate



Spacer





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









Dimensions

Note: All units are in millimeters unless otherwise indicated.

■ P2RF



Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
P2RF-08-E (Two poles) 63 max. (84.9 max.) 48 max.) 4	Note: Figures in paren- theses are DIN standard num- bers.	3.2-dia.holes 4 395±01 M3 or 3.5-dia.holes Note: Track-mounting is also possible.

Note: When indicator modules with an I/O SSR are used, the No. 1 pin becomes positive.





Note: When indicator modules with an I/O SSR are used, the No. 1 pin becomes positive.

■ P2R/P7TF



Note: When indicator modules with an I/O SSR are used, the No. 1 pin becomes positive.

■ PYF Dimensions





■ PY Dimensions





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

2. The PY14-Y1 and the PY14QN-Y1 can be used with MY4-series models and the MY2K.

■ PTF Dimensions

	Dimensions		Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
PTF08A	Two, 4.5 x 6 mounting holes	, 3.5M x 8 , 3.5M x 8 , 3.5M x 8 , 35.4 , 35.4 , 35.4 , 35.4 , 30 , max.		Two, M4 or 4.5-dia. holes 68 ±0.3 27.5±0.2 Note: Track-mounting is avail- able. See page 245.



Note: If PTF08A and PT08 are used in combination with LY1 with a total current flow of 10 A minimum, terminals 1 and 2, 3 and 4, 5 and 6 respectively should be short-circuited.

■ PT Dimensions





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

■ P7LF Dimensions



■ P7S Dimensions

Dimensions	Terminal arrangement/ Internal connections	Mounting holes
P7S-14F 40 max. 33=01 33=01 33=01 33=01 40 max. 33=01 34 35=010	(top view)	Two, M3.5 or 4.0-dia. holes
P7S-14A	G7S-4A2B G7S-3A3B G7S-3A3B G7S-3A3B G7S-3A3B	21 ⁺ 8 ²
P7S-14P	G7S-4A2B G7S-3A3B G7S-3A3B	$\begin{array}{c} 4.2 \\ 2.8 \\ 14.5 \\ 0 \\ -5 \\ 7 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5$

■ PF Dimensions





Note: The key groove of PF083A and PF113A (used with MK Relays) are on the upside.

■ P2CF/PFA Dimensions





■ PFA/P3G/P3GA Dimensions



Dimensions			Terminal arrangement/ Internal connections (top view)	Mounting holes
P3G-08	45 45 45			
P3GA-11	45 45 45	4.5 16.3 6.2		

■ PL Dimensions



Note: When mounting, pay due attention to the direction of the key groove of applicable Relays.

PL Dimensions



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

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