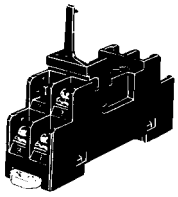
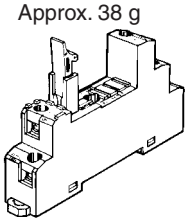
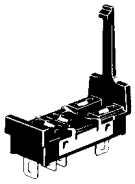
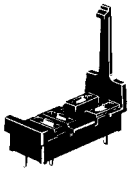
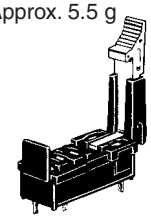
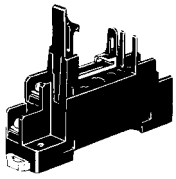
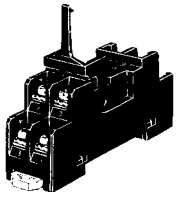
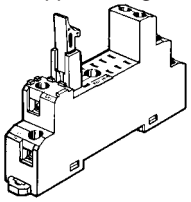
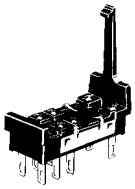
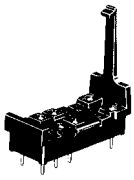
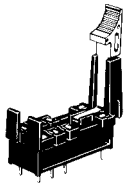
General-purpose Relays and Power Relays

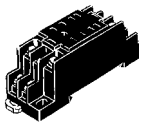
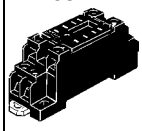
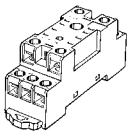
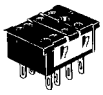
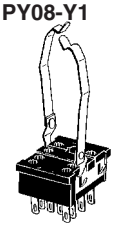
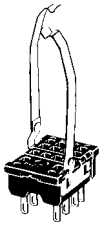
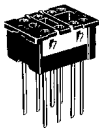
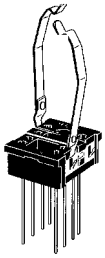
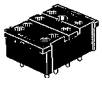
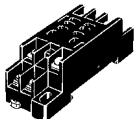
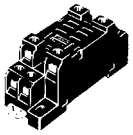
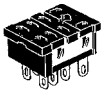
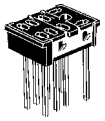
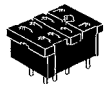
Sockets

Square Sockets

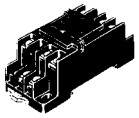
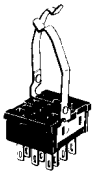
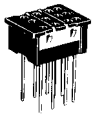
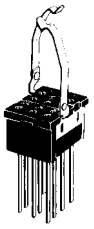
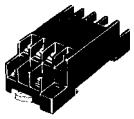
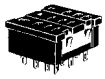
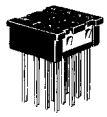
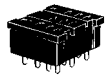
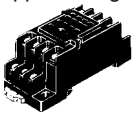
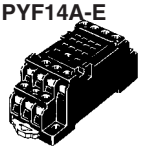
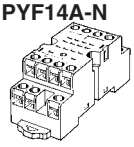
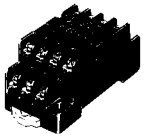
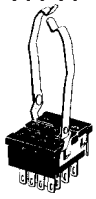
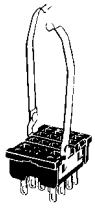
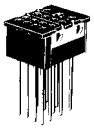
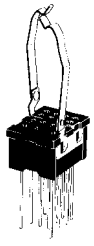
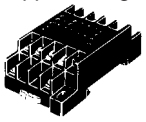
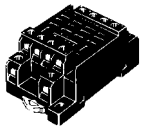
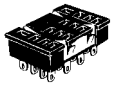
Item	P2RF (Track-mounting) *see page 246		P2R *see page 248			P7TF (Track-mounting) *see page 249
	Screw terminal		Solder terminal	PCB terminal		Screw terminal
5 pins	**P2RF-05** Approx. 27 g 	**P2RF-05-E** Approx. 38 g 	**P2R-05A** Approx. 5 g 	**P2R-05P** Approx. 5 g 	**P2R-057P** Approx. 5.5 g 	**P7TF-05** 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.

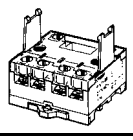
Square Sockets

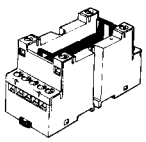
Item	PYF (Track-mounting) *see page 250	PY (back-connecting) *see page 252			PTF (Track-mounting) *see page 253	PT (back-connecting) *see page 255		
	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal
8 pins	**PYF08A** Approx. 32 g  **PYF08A-E**  **PYF08A-N** 	**PY08** Approx. 8 g  **PY08-Y1**  **PY08-Y3** 	**PYQ08QN** Approx. 12 g  **PYQ08QN2**  **PYQ08QN-Y1** **PYQ08QN2-Y1** 	**PY08-02** Approx. 7.2 g 	**PTF08A** Approx. 39 g  **PTF08A-E** 	**PT08** Approx. 11 g 	**PT08QN** Approx. 10.4 g 	**PT08-0** Approx. 8 g 

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

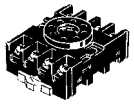
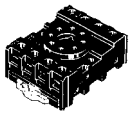
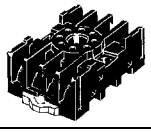
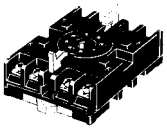
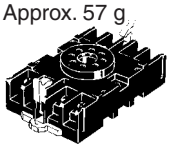
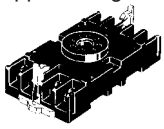
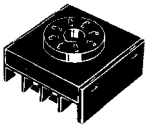
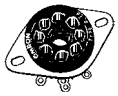
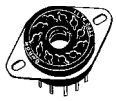
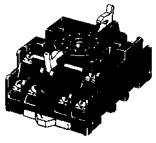
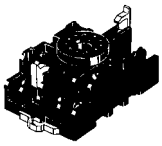
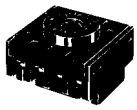
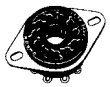
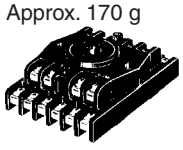
Item	PYF (Track-mounting) *see page 250	PY (back-connecting) *see page 252			PTF (Track-mounting) *see page 253	PT (back-connecting) *see page 255		
	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal	Screw terminal	Solder terminal	Wrapping terminal	PCB terminal
11 pins	**PYF11A** Approx.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

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

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 

Round Sockets

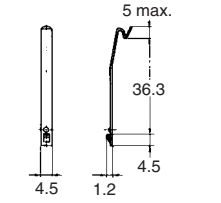
Item	PF (Track-mounting) *see page 258	P2CF (Track-mounting)	PFA (Track-mounting)	P3G (Track-mounting)	PL (back-connecting) *see page 261		
					Solder terminal	Wrapping terminal	PCB terminal
8 pins	**PF083A** Approx. 34 g  **PF083A-E**  **PF085A** Approx. 40 g 	**P2CF-08** Approx. 55 g 	**8PFA** Approx. 57 g  **8PFA1** Approx. 66 g 	**P3G-08** Approx. 40 g 	**PL08** Approx. 14 g 	**PL08-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.

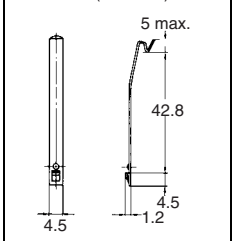
■ Hold-down Clips

For Square Sockets

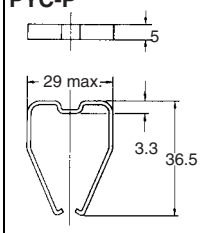
PYC-A1 (see note)



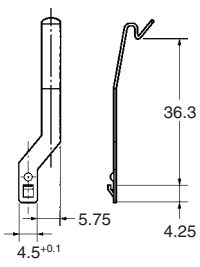
PYC-A2 (see note)



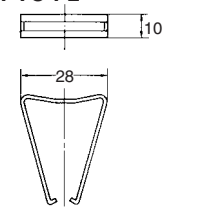
PYC-P



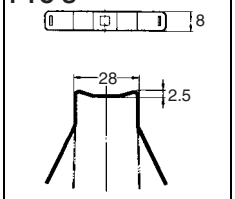
PYC-E1 (see note)



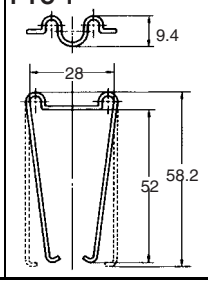
PYC-P2



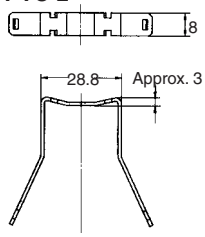
PYC-S



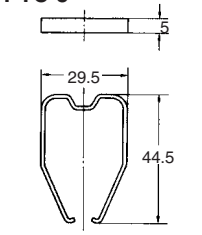
PYC-1



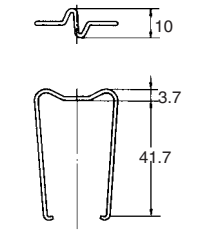
PYC-2



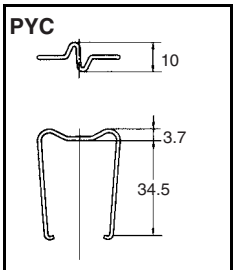
PYC-3



PYC-5

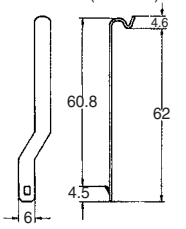


PYC

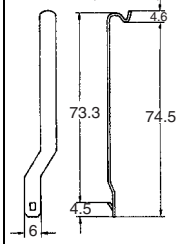


For Round Sockets

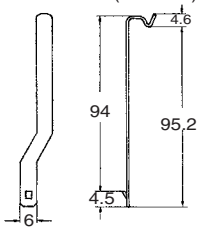
PFC-A1 (see note)



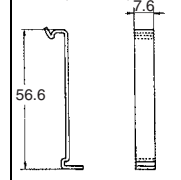
PEC-A6 (see note)



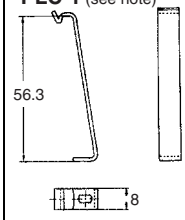
PEC-A7 (see note)



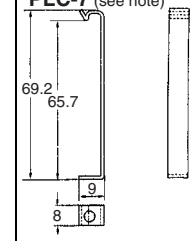
PLC (see note)



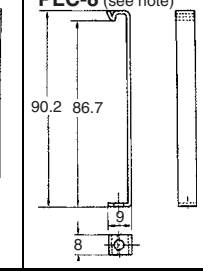
PLC-1 (see note)



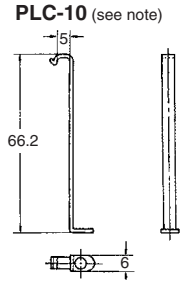
PLC-7 (see note)



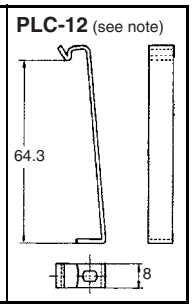
PLC-8 (see note)



PLC-10 (see note)



PLC-12 (see note)



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
	MK3P, MK2KP	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 □.

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	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 VAC for 1 min Between coil and contact: 5,000 VAC for 1 min	1,000 MΩ min.
P2R-087P	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: 5,000 VAC for 1 min	1,000 MΩ min.
P2R-05A	10 A	Between contacts of same polarity: 1,000 VAC for 1 min Between ground terminal and other terminals: 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 terminals: 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□□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□□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 terminals (P7S-14A): 2,000 VAC for 1 min	100 MΩ min.

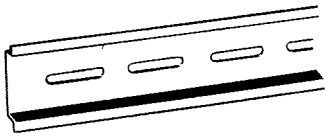
Note: 1. The values given above are initial values.

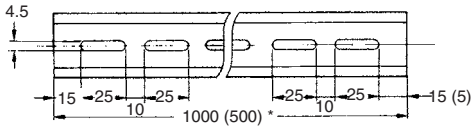
2. The values for insulation resistance were measured at 500 V at the same place as the dielectric strength.

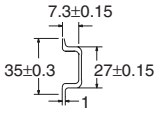
3. The maximum operating ambient temperature for the PYF08A-N and PYF14A-N is 55°C. When using the PYF08A-N or PYF14A-N at an operating ambient temperature exceeding 40°C, reduce the current to 60%.

■ Track and Accessories

Mounting Track
PFP-100N
PFP-50N

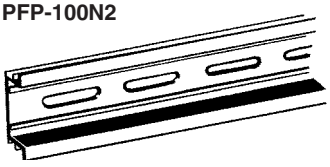


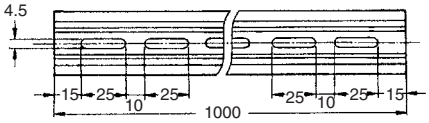


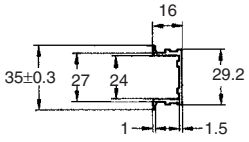


Note: The figure in the parentheses is for PFP-50N.

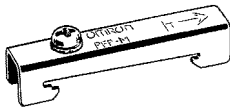
Mounting Track
PFP-100N2

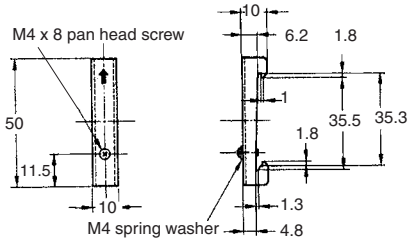




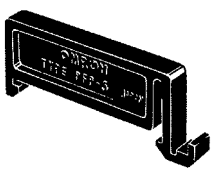


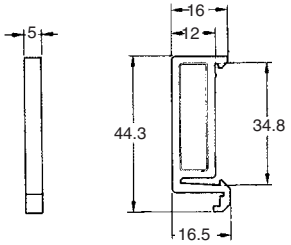
End Plate
PFP-M





Spacer
PFP-S

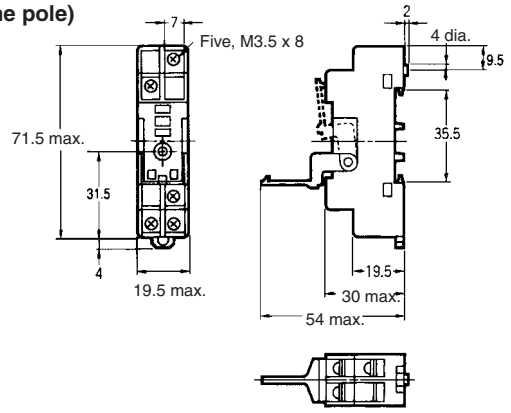
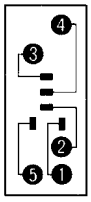
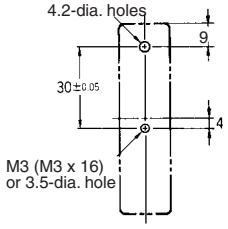
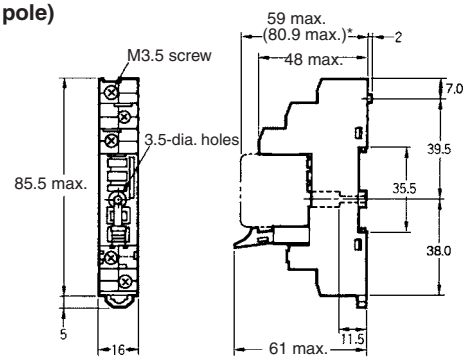
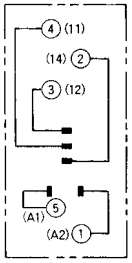
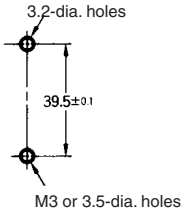
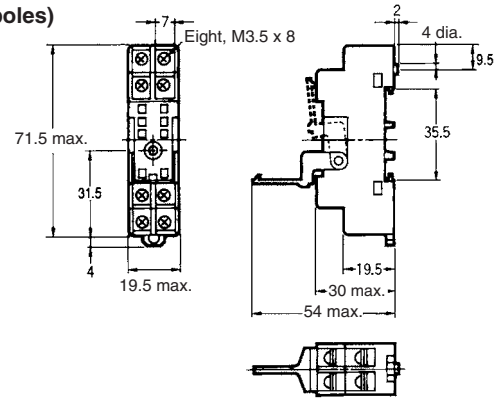
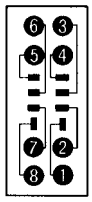
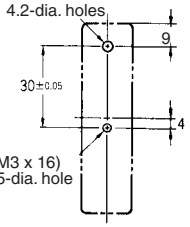


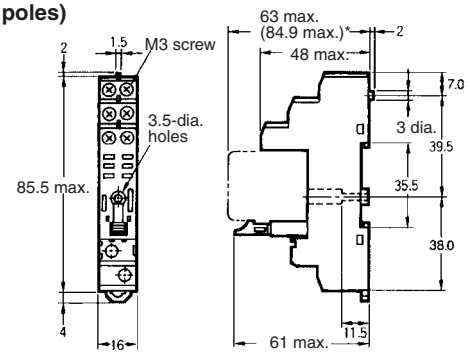
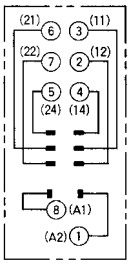
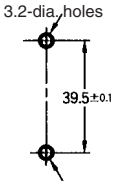


Dimensions

Note: All units are in millimeters unless otherwise indicated.

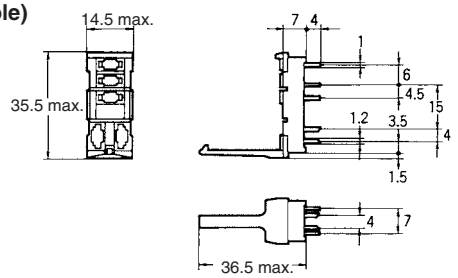
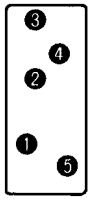
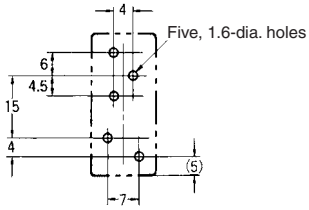
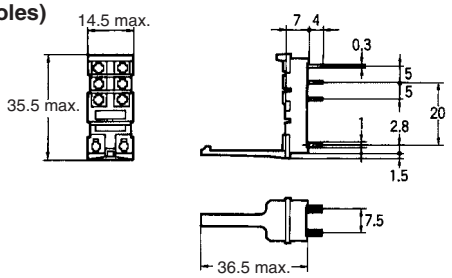
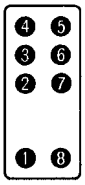
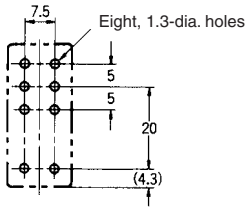
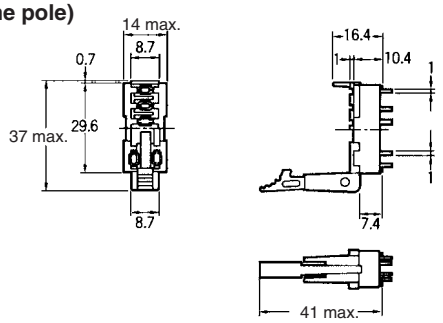
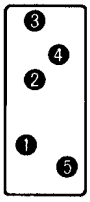
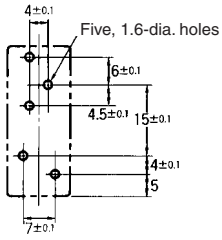
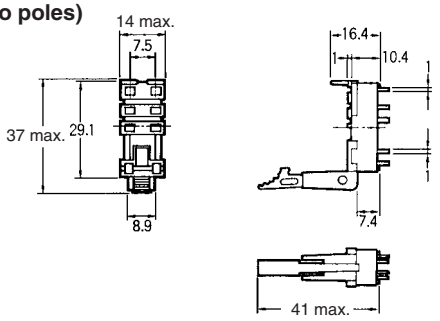
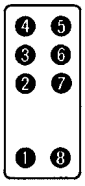
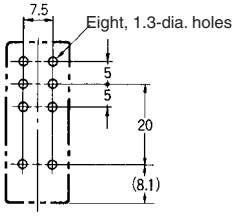
■ P2RF

Dimensions	Terminal arrangement/Internal connections (top view)	Mounting holes (top view)
P2RF-05 (One pole) 		 **Note:** Track-mounting is also possible.
P2RF-05-E (One pole)  * When mounted on H3RN-1□.	 **Note:** Figures in parentheses are DIN standard numbers.	 **Note:** Track-mounting is also possible.
P2RF-08 (Two poles) 		 **Note:** Track-mounting is also possible.

Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
P2RF-08-E (Two poles)  * When mounted on H3RN-2□.	 **Note:** Figures in parentheses are DIN standard numbers.	 **Note:** Track-mounting is also possible.

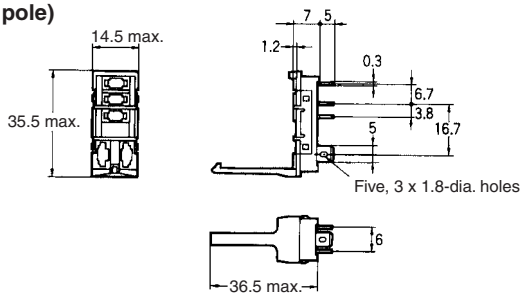
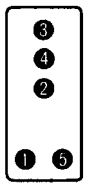
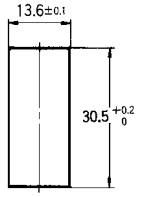
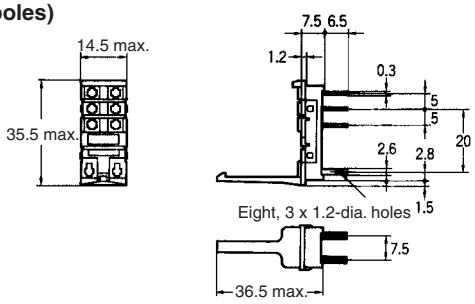
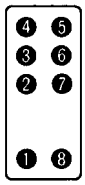
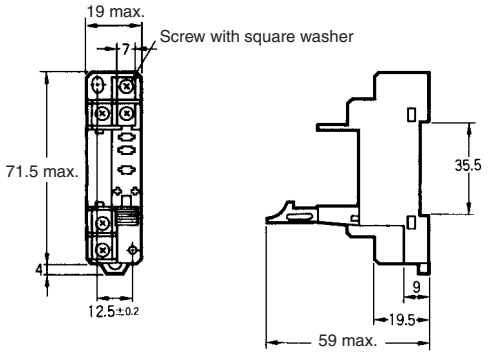
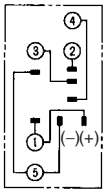
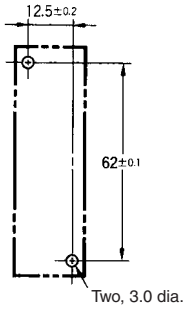
Note: When indicator modules with an I/O SSR are used, the No. 1 pin becomes positive.

■ P2R

Dimensions	Terminal arrangement/ Internal connections (bottom view)	Mounting holes (bottom view)
P2R-05P (One pole) 		
P2R-08P (Two poles) 		
P2R-057P (One pole) 		
P2R-087P (Two poles) 		

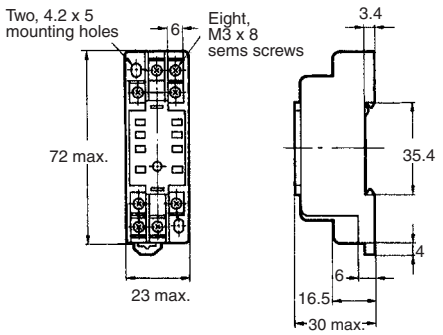
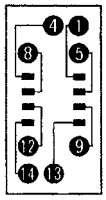
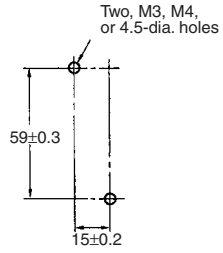
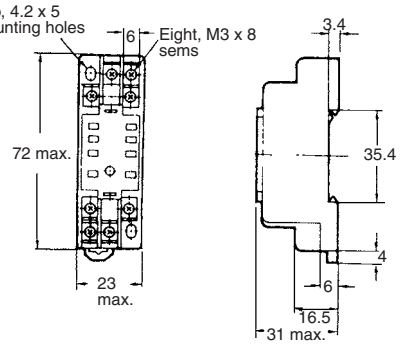
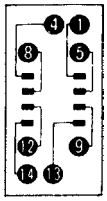
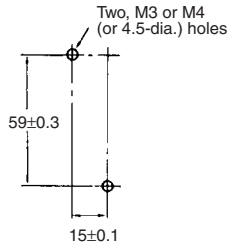
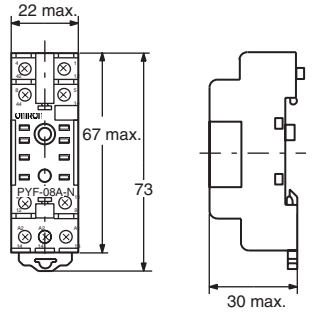
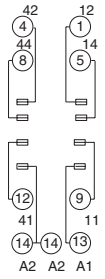
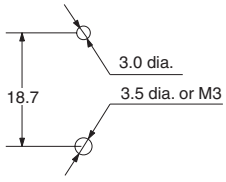
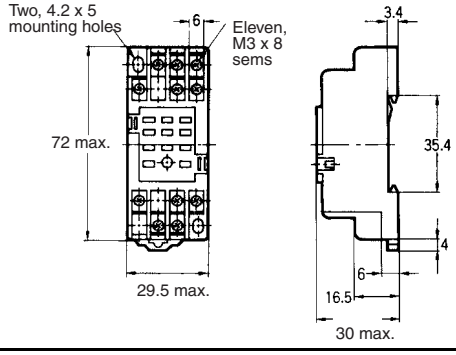
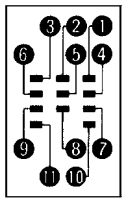
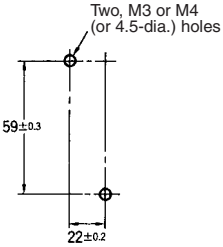
Note: When indicator modules with an I/O SSR are used, the No. 1 pin becomes positive.

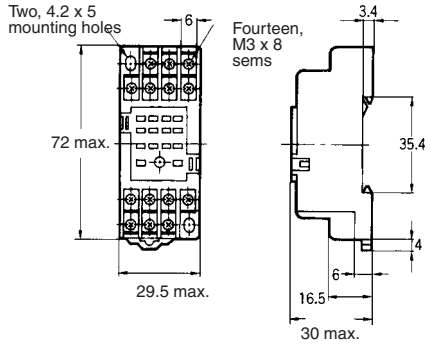
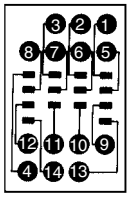
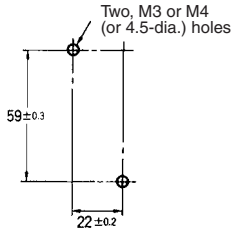
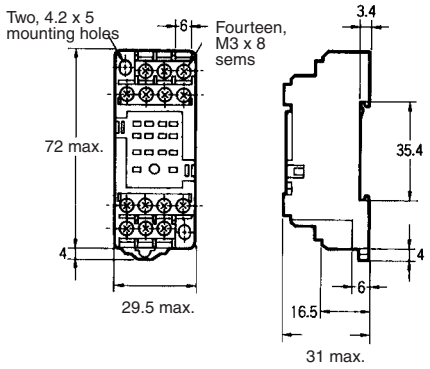
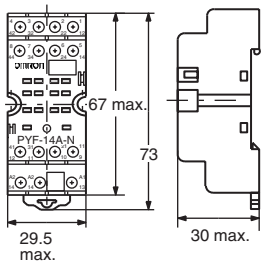
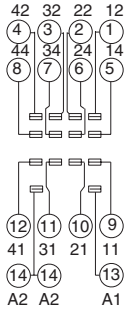
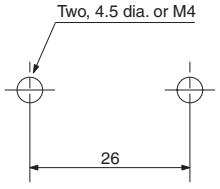
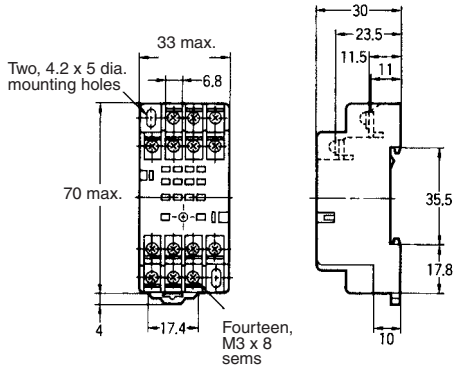
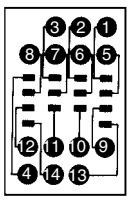
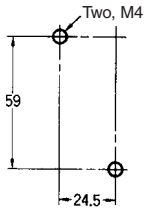
■ P2R/P7TF

Dimensions	Terminal arrangement/ Internal connections	Mounting holes
P2R-05A (One pole) 	 **(Bottom view)**	 Use panel with thickness of 1.6 to 2.0 mm.
P2R-08A (Two poles) 	 **(Bottom view)**	
P7TF-05 	 **(Top view)**	 **(Top view)** **Note:** Track-mounting is also possible.

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

■ PYF Dimensions

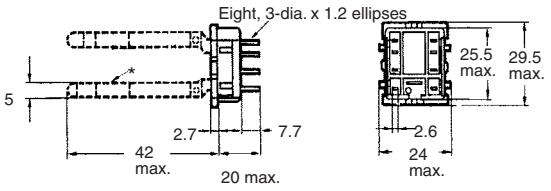
Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
PYF08A 		 **Note:** Track-mounting is also possible.
PYF08A-E 		 **Note:** Track-mounting is also possible.
PYF08A-N 		 **Note:** Track-mounting is also possible. Refer to page 245 for Mounting Tracks.
PYF11A 		 **Note:** Track-mounting is also possible.

Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
PYF14A 		 **Note:** Track-mounting is also possible.
PYF14A-E 		
PYF14A-N 		 **Note:** Track-mounting is also possible. Refer to page 245 for Mounting Tracks.
PYF14T 		 **Note:** Track-mounting is also possible.

■ PY Dimensions

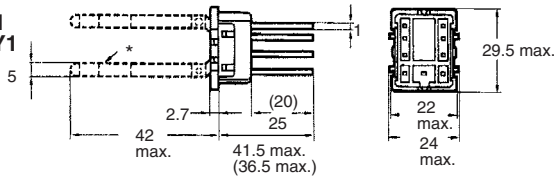
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Internal connections
(bottom view)</th><th>Mounting holes</th></tr>
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PY08
PY08-Y1
PY08-Y3



Note: PY08-Y1 includes the part outlined by the dashed lines above.

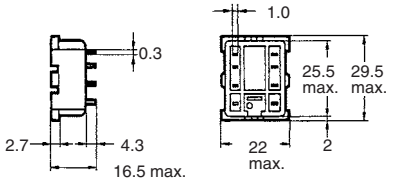
PY08QN
PY08QN2
PY08QN-Y1
PY08QN2-Y1



Note: 1. PY08QN(2)-Y1 includes the part outlined by the dashed lines above.

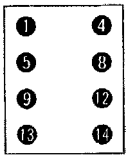
2 The figures in the parentheses are for PY08QN2.

PY08-02

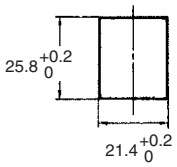


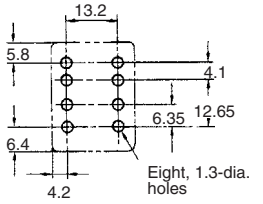
Note: PY08-Y1 includes the part outlined by the dashed lines above.

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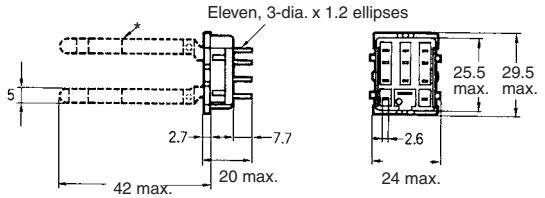
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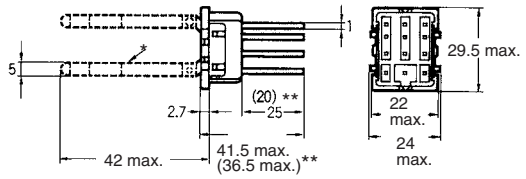
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PY11
PY11-Y1



Note: PY11-Y1 includes the part outlined by the dashed lines above.

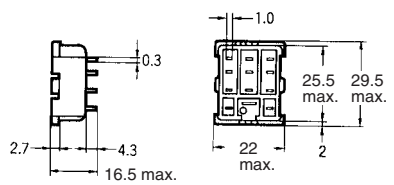
PY11QN
PY11QN2
PY11QN-Y1
PY11QN2-Y1



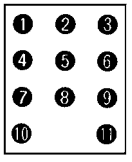
Note: 1. PY11QN(2)-Y1 includes the part outlined by the dashed lines above.

2 The figures in the parentheses are for PY11QN2 (-Y1).

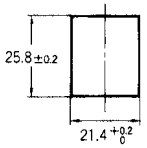
PY11-02

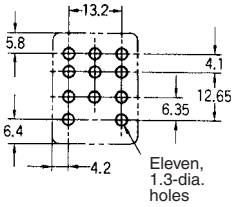


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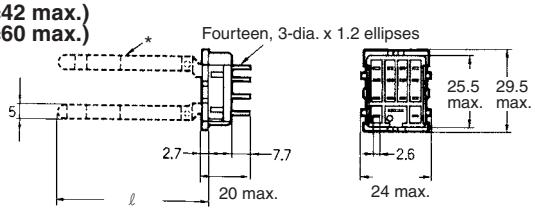
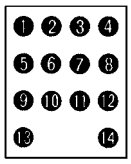
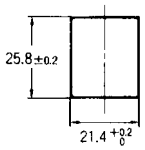
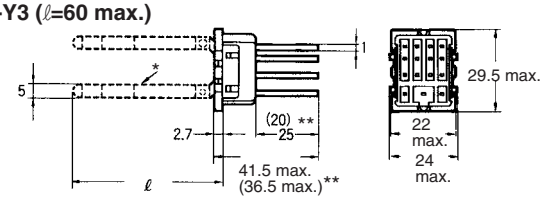
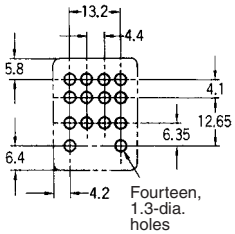
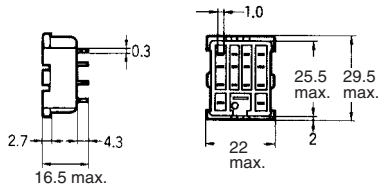


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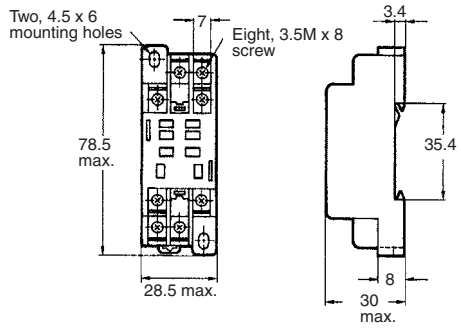
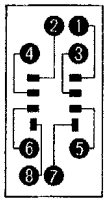
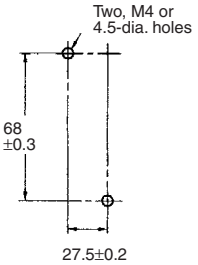
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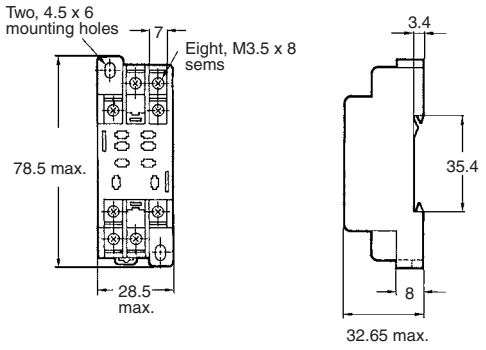
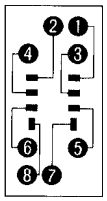
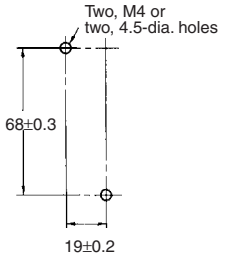
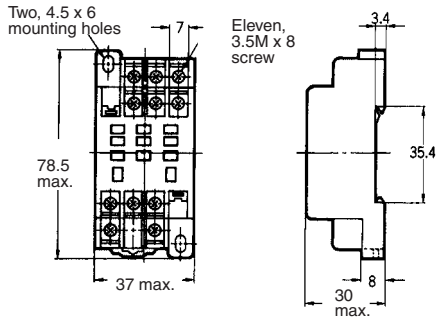
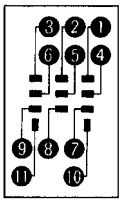
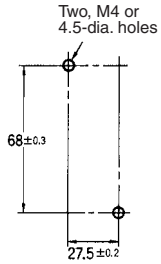
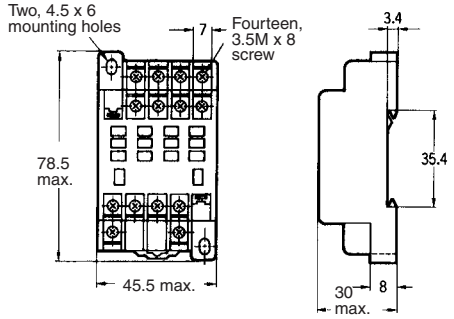
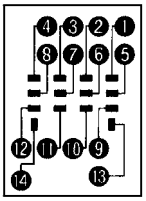
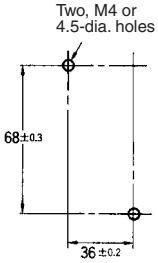
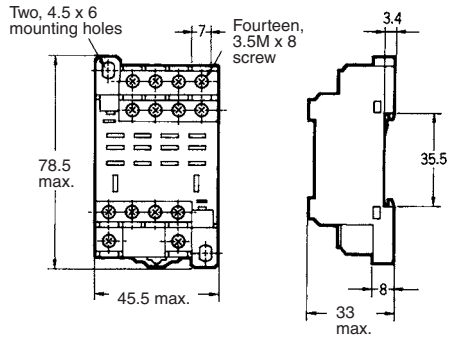
Dimensions	Terminal arrangement/ Internal connections (bottom view)	Mounting holes
PY14 **PY14-Y1 (ℓ=42 max.)** **PY14-Y3 (ℓ=60 max.)**  **Note:** PY14-Y1 includes the part outlined by the dashed lines above.		
PY14QN, PY14QN2 **PY14QN-Y1 (ℓ=42 max.)** **PY14QN2-Y1 (ℓ=42 max.)** **PY14QN-Y2 (ℓ=49 max.)** **PY14QN2-Y2 (ℓ=49 max.)** **PY14QN-Y3 (ℓ=60 max.)** **PY14QN2-Y3 (ℓ=60 max.)**  **Note:** 1. PY11QN(2)-Y1 includes the part outlined by the dashed lines above. 2 The figures in the parentheses are for PY11QN2 (-Y1).		
PY14-02 		

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.

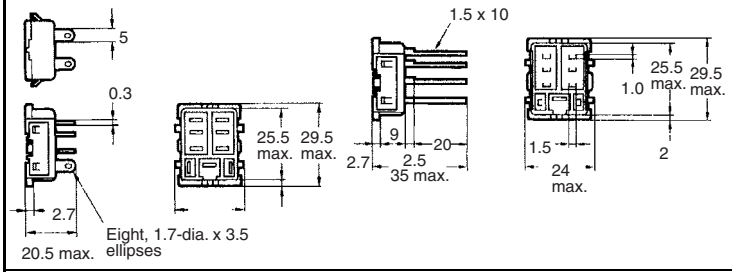
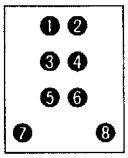
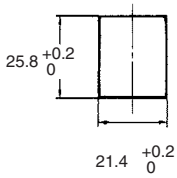
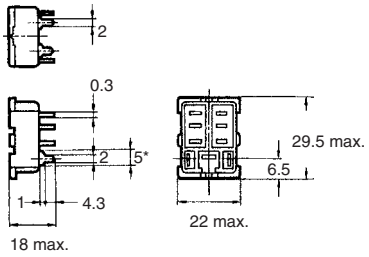
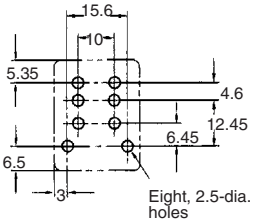
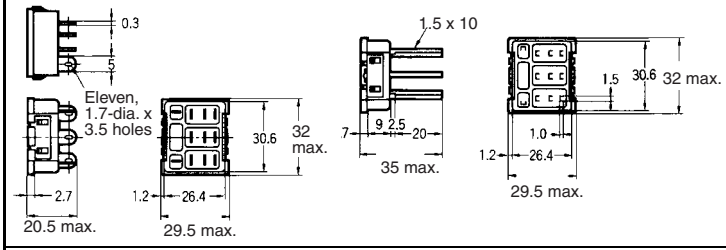
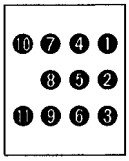
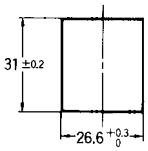
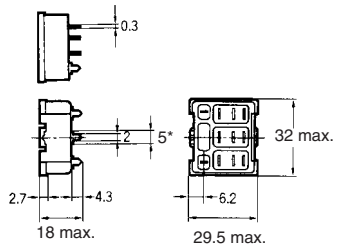
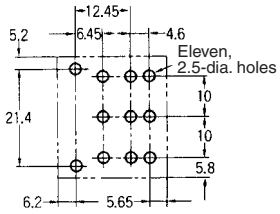
■ PTF Dimensions

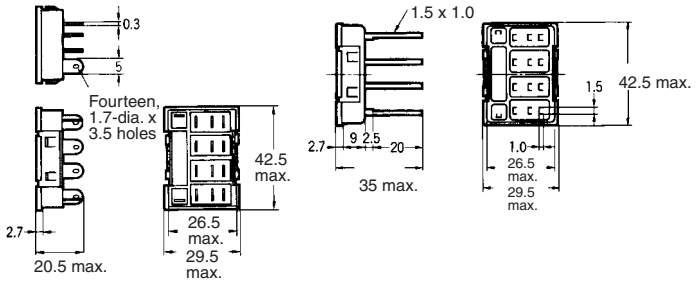
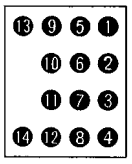
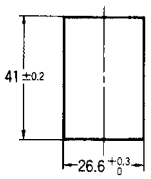
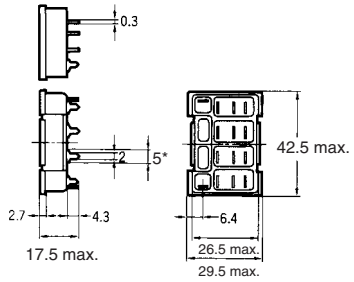
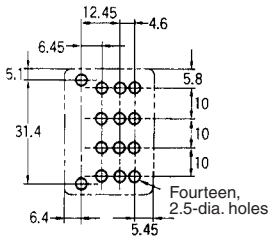
Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
PTF08A 		 **Note:** Track-mounting is available. See page 245.

Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes (top view)
PTF08A-E 		 **Note:** Track-mounting is available. See page 245.
PTF11A 		 **Note:** Track-mounting is available. See page 245.
PTF14A 		 **Note:** Track-mounting is available. See page 245.
PTF14A-E 		

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.

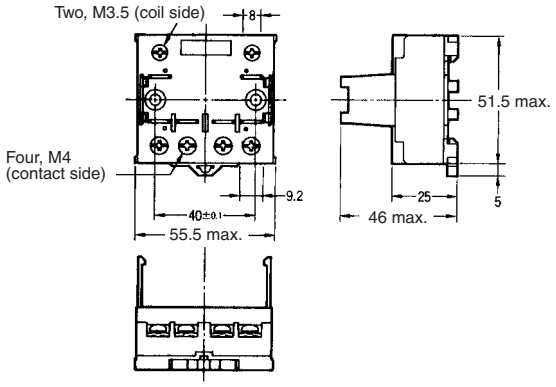
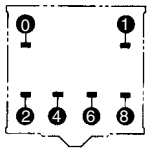
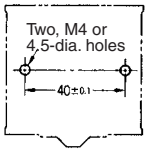
■ PT Dimensions

Dimensions	Terminal arrangement/ Internal connections (bottom view)	Mounting holes
PT08 **PT08QN** 		
PT08-0  *Keep a proper distance between the Socket and PCB patterns.		 The tolerance is ±0.1.
PT11 **PT11QN** 		
PT11-0  *Keep a proper distance between the Socket and PCB patterns.		 The tolerance is ±0.1.

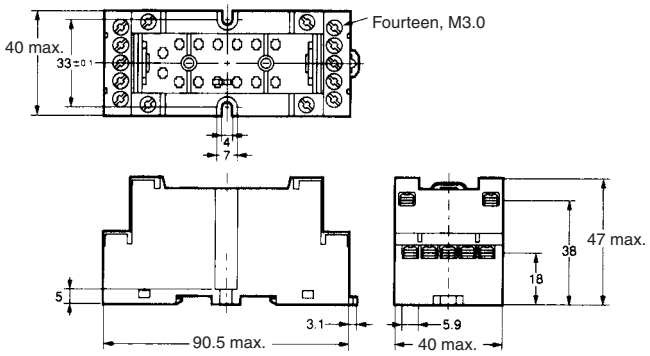
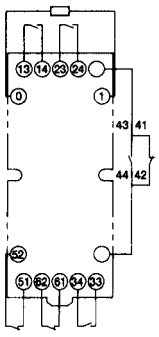
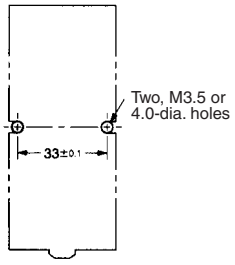
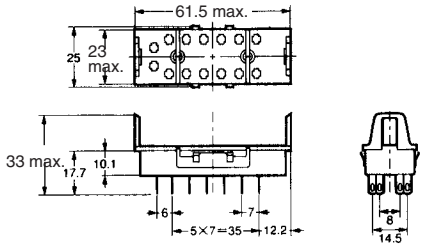
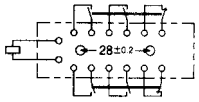
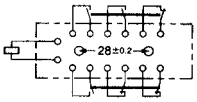
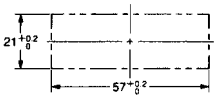
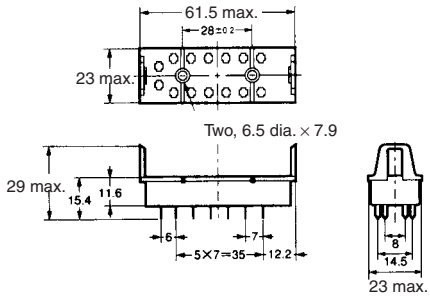
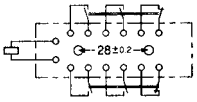
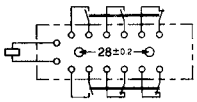
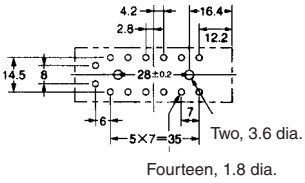
Dimensions	Terminal arrangement/ Internal connections (bottom view)	Mounting holes
PT14  **PT14QN**		
PT14-0  *Keep a proper distance between the Socket and PCB patterns.		 The tolerance is ±0.1.

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

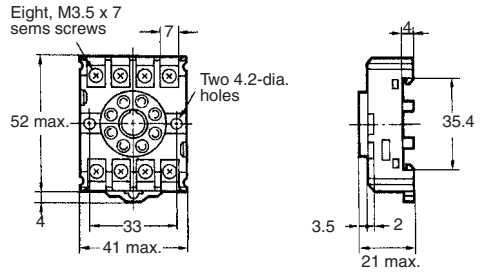
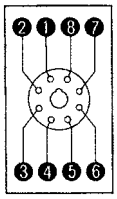
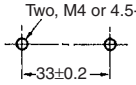
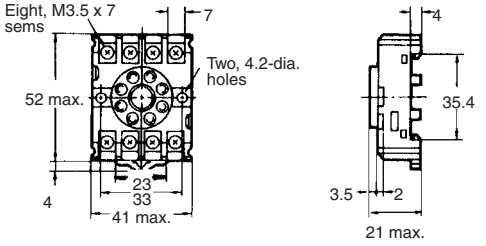
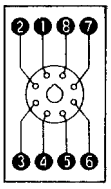
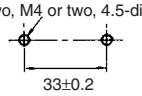
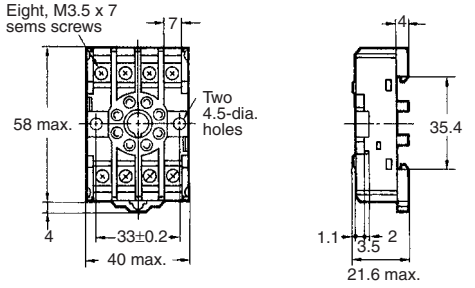
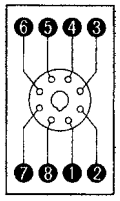
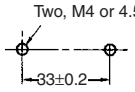
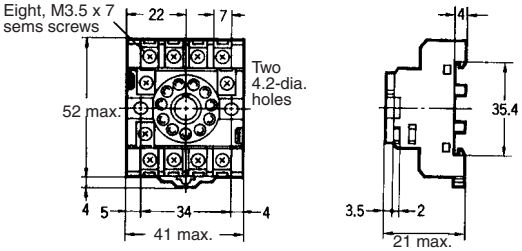
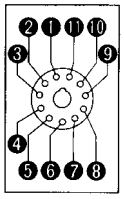
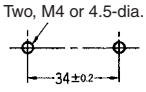
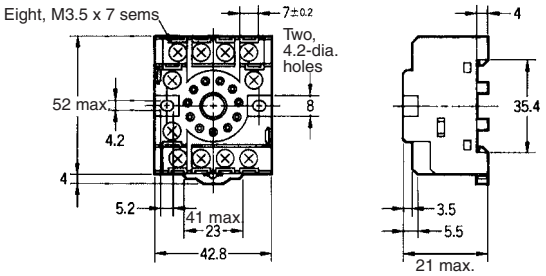
■ P7LF Dimensions

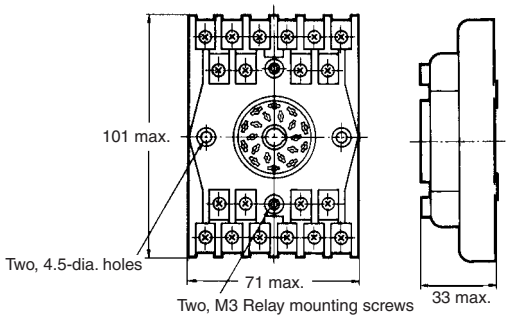
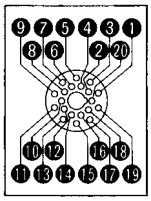
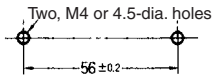
Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
P7LF-06 		

■ P7S Dimensions

Dimensions	Terminal arrangement/ Internal connections	Mounting holes
P7S-14F 	 (top view)	
P7S-14A 	G7S-4A2B  G7S-3A3B  (bottom view)	
P7S-14P 	G7S-4A2B  G7S-3A3B  (bottom view)	

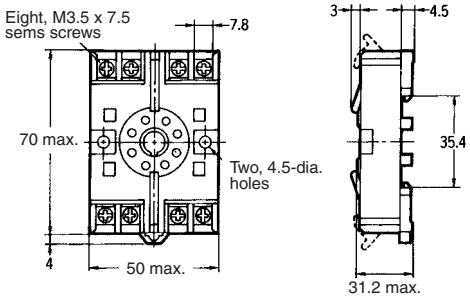
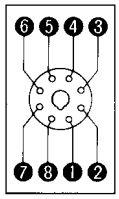
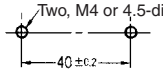
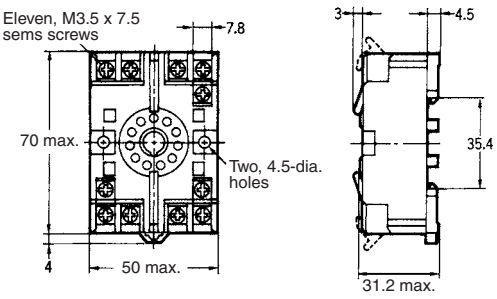
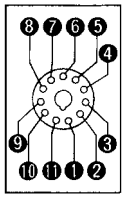
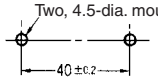
■ PF Dimensions

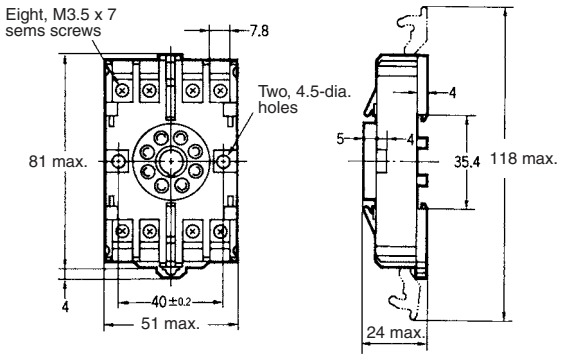
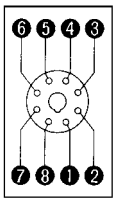
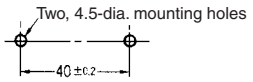
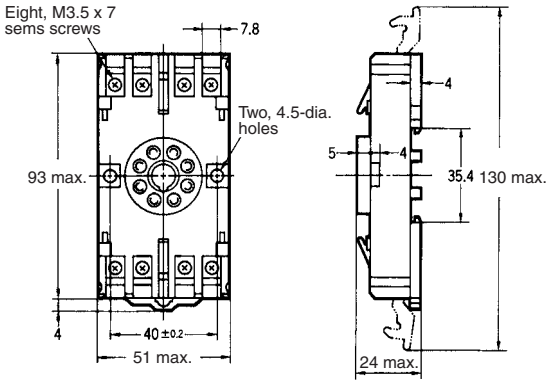
Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
PF083A 		 **Note:** Track-mounting is available. See page 245.
PF083A-E 		
PF085A 		 **Note:** Track-mounting is available. See page 245.
PF113A 		 **Note:** Track-mounting is available. See page 245.
PF113A-E 		

Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
PF202 		

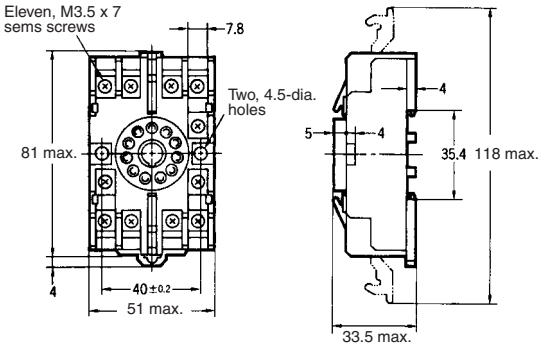
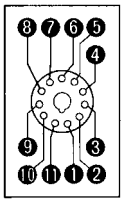
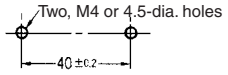
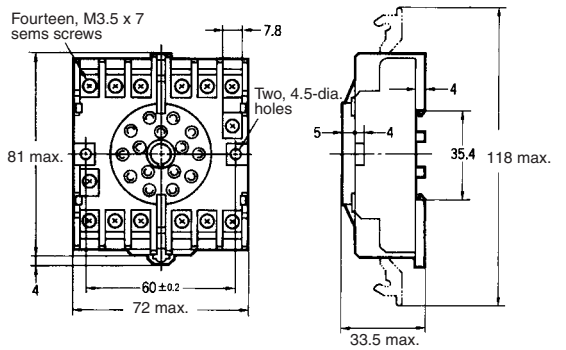
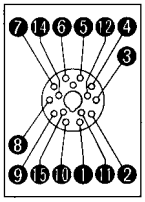
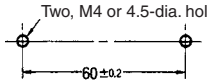
Note: The key groove of PF083A and PF113A (used with MK Relays) are on the upside.

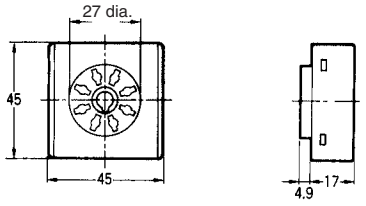
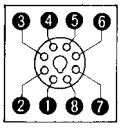
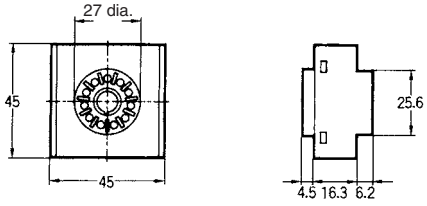
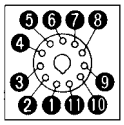
■ P2CF/PFA Dimensions

Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
P2CF-08 		 **Note:** Track-mounting is available. See page 245.
P2CF-11 		 **Note:** Track-mounting is available. See page 245.

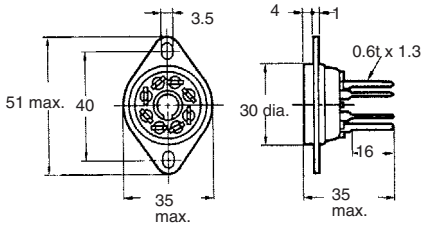
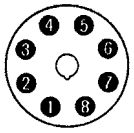
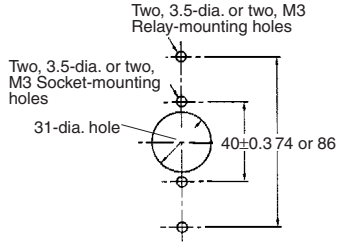
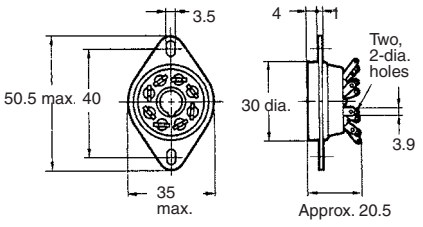
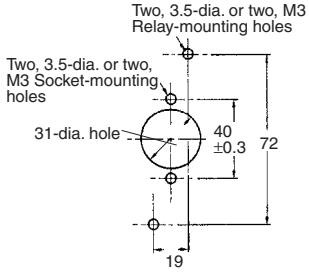
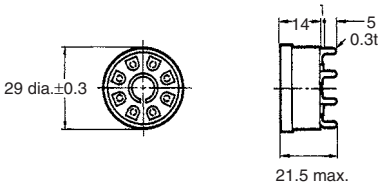
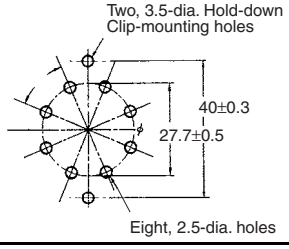
Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
8PFA 		 **Note:** Track-mounting is available. See page 245.
8PFA1 		

■ PFA/P3G/P3GA Dimensions

Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
11PFA 		 **Note:** Track-mounting is available. See page 245.
14PFA 		 **Note:** Track-mounting is available. See page 245.

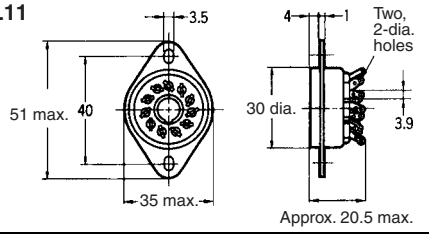
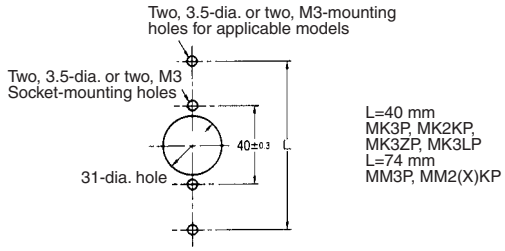
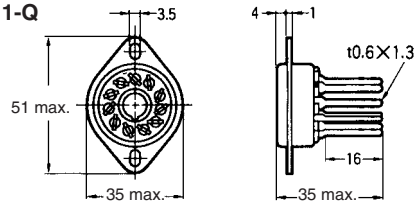
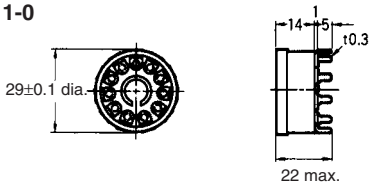
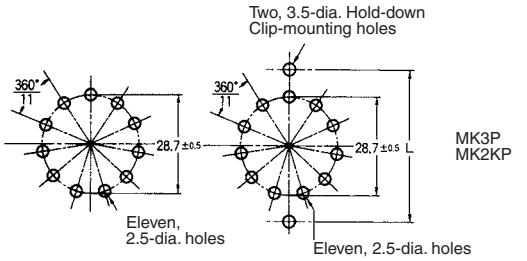
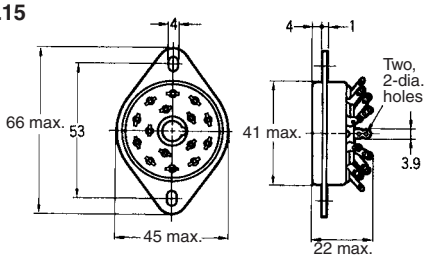
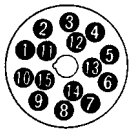
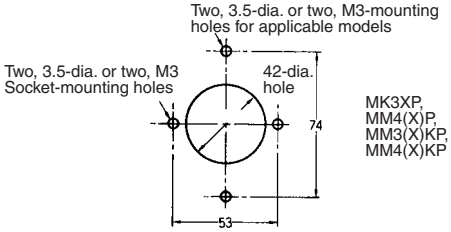
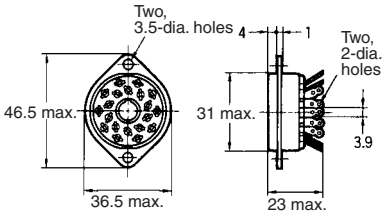
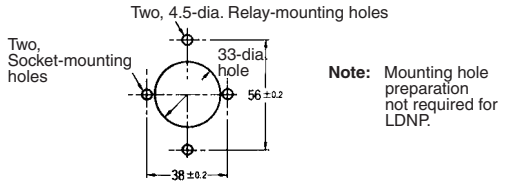
Dimensions	Terminal arrangement/ Internal connections (top view)	Mounting holes
P3G-08 		---
P3GA-11 		---

■ PL Dimensions

Dimensions	Terminal arrangement/ Internal connections (bottom view)	Mounting holes
PL08 		
PL08-Q 		
PLE08-0 		

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

■ PL Dimensions

Dimensions	Terminal arrangement/ Internal connections (bottom view)	Mounting holes
PL11 		
PL11-Q 		
PLE11-0 		
PL15 		
PL20 		 **Note:** Mounting hole preparation not required for LDNP.

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

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

II. SALES

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

III. PRECAUTIONS

1. Suitability: IT IS THE BUYER'S SOLE RESPOINSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
2. Use with Attention: The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
   (a) Outdoor use, use involving potential chemical contamination or electrical interference.
   (b) Use in consumer Products or any use in significant quantities.
   (c) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
   (d) Systems, machines, and equipment that could present a risk to life or property.
3. Prohibited Use: NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
4. Motorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
5. Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

1. Warranty: Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
2. Buyer Remedy: Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment.
3. Limitation on Liability: SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIABILITY OF SELLER OR ITS AFFILITATES EXCEED THE INDIVIDUAL PRICE OF THE PRODUCT ON WHICH LIABILITY IS ASSERTED.
4. Indemnities: Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products.

V. INFORMATION; ETC.

1. Intellectual Property: The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
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5. Errors And Omissions: The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
6. Export Controls: Buyer shall comply with all applicable laws, regulations and licenses regarding (a) export of the Products or information provided by Seller; (b) sale of Products to forbidden or other proscribed persons or organizations; (c)disclosure to non-citizens of regulated technology or information.

VI. MISCELLANEOUS

1. Waiver: No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller.
2. Assignment: Buyer may not assign its rights hereunder without Seller's written consent.
3. Law: These Terms are governed by Illinois law (without regard to conflict of laws). Federal and state courts in Illinois have exclusive jurisdiction for any dispute hereunder.
4. Amendment: These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties.
5. Severability: If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision.

Certain Precautions on Specifications and Use

1. Suitability for Use. Seller shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:
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   (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
   (iii) Use in consumer products or any use in significant quantities.
   (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this product.

   NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

OMRON ELECTRONIC COMPONENTS LLC
55 E. Commerce Drive, Suite B
Schaumburg, IL 60173
847-882-2288

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