

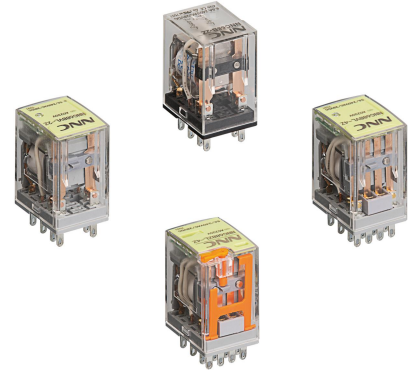


NINC68B

Miniature Intermediate Power Relay

Features:

- SMD LED indicator/mechanical operation indicator
- Lockable test button
- 2 to 4 contact poles
- Switching capability up to 10A
- PCB terminals/Solder terminals
- RoHS compliance
- UL:E235027; TUV:R50260442
- CQC:14002115332; CE:5399090516



ORDERING INFORMATION

NINC68B

V

P

L

-4

Z

5A

DC12V

1.NINC68B series:

2.Options(1): **Blank**: Standard; **S**: Sealed type

V: With name plate; **Z**: With test button

3.Options(2): **Blank**: Solder terminals; **P**: PCB terminals

4.Options(3): **Blank**: Nil; **L**: With LED indicator

X: With diode; **LX**: With LED indicator and diode

5.Number of Poles: **2**: 2poles; **3**: 3poles; **4**: 4poles

6.Contact Form: **Z**=C(CO); **H**=A(NO); **D**=B(NC)

7.Rated Contact Load : 6.5A(for 2poles; 3poles); 5A(for 4poles); 10A(for 2poles)

8.Coil Voltage: DC6V-220V; AC6V-380V

9.Special Code: *******: Customer Special Requirement; **Blank**: Standard; **F**: Flange mounting

*Note: Not all combinations are available

PRODUCT CROSS REFERENCE

CLION	Universal	HONGFA	OMRON
NINC68B	MY	HF18F	MY

SPECIFICATIONS

CONTACT DATA

Contact form	2Z(DPDT); 2H(DPST-NO); 2D(DPST-NC)	2Z(DPDT); 2H(DPST-NO); 2D(DPST-NC)	3Z(TPDT); 3H(TPST-NO); 3D(TPST-NC)	4Z(4PDT); 4H(4PST-NO); 4D(4PST-NC)
Contact rating(Resistance load)	10A	6.5A	6.5A	5A
Max.switching voltage	240VAC/28VDC			
Max.switching current	10A	6.5A	6.5A	5A
Contact resistance	100mΩ max.(at 6VDC 1A)			
Contact material	Ag Alloy(AgSnO ₂)			
Mechanical endurance	1×10 ⁷ operations min.			
Electrical endurance	1×10 ⁵ operations min.			

COIL DATA

Nominal coil voltage (VDC)	Nominal current (mA) ±10%	Coil resistance (Ω) ±10%	Operating voltage (VDC) max.	Release voltage (VDC) min.
6	150	40	4.5	0.6
12	75	160	9	1.2
24	37.5	640	18	2.4
48	18.7	2560	36	4.8
110	8	13444	82.5	11
220	4	53777	165	22
Coil power consumption		0.9W		

COIL DATA

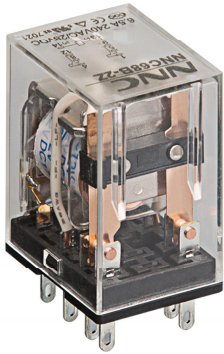
Nominal coil voltage (VAC)	Nominal current (mA) $\pm 10\%$	Coil resistance (Ω) $\pm 10\%$	Operating voltage (VAC) max.	Release voltage (VAC) min.
6	200	10.5	4.8	1.8
12	100	42	9.6	3.6
24	50	168	19.2	7.2
48	25	672	38.4	14.4
110	10.9	3529	88	33
220	5.4	14116	176	66
380	3.1	42116	304	114
Coil power consumption		1.2VA		

CHARACTERISTICS

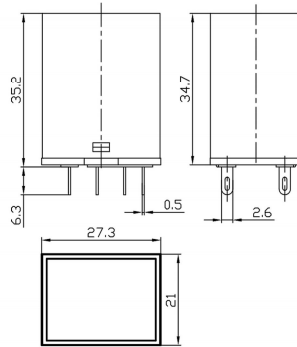
Operate time(at rated voltage)		15ms max. DC type
Release time(at rated voltage)		10ms max. DC type
Operate voltage		75% of nominal voltage max. DC type
		80% of nominal voltage max. AC type
Release voltage		10% of nominal voltage min. DC type
		30% of nominal voltage min. AC type
Insulation resistance		100M Ω min.(at 500VDC)
Dielectric	Between coil and contacts	1500VAC for 1min
	Between open contacts of same pole	1000VAC for 1min
Strength	Between contacts of different pole	1000VAC for 1min
Shock	Destruction	1,000m/s ² (approx.100G)
Resistance	Malfunction	100m/s ² (approx.10G)
Vibration	Destruction	10 ~ 50HZ,1.5mm double amplitude
Resistance	Malfunction	10 ~ 50HZ,1.5mm double amplitude
Ambient temperature		-40°C ~ 85°C
Ambient humidity		45% ~ 85%RH
Weight		approx.30g(2 poles)

APPEARANCE(DIMENSIONS)/ WIRING DIAGRAM(Unit: mm)

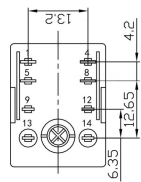
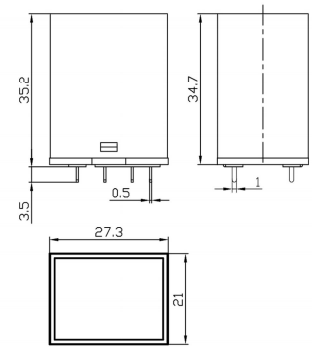
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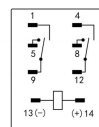
Solder Terminals



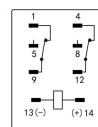
PCB Terminals



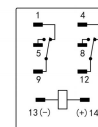
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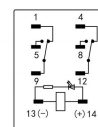
2D



2Z



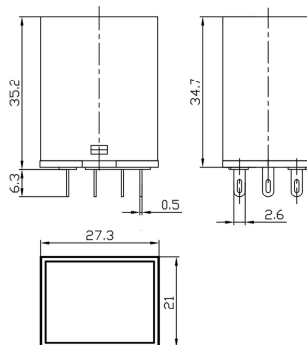
L-2Z



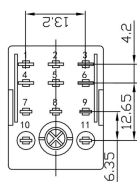
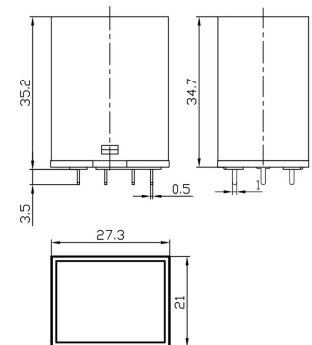
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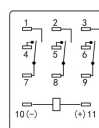
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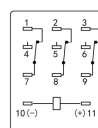
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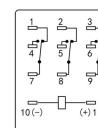
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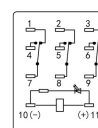
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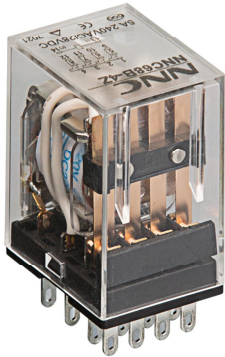
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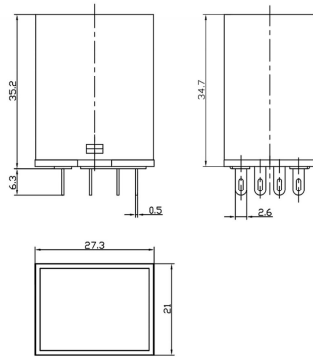
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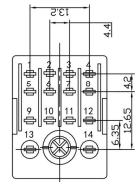
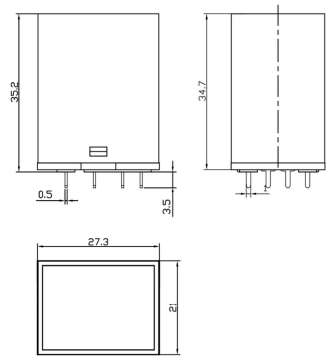
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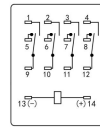
Solder Terminals



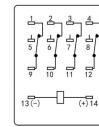
PCB Terminals



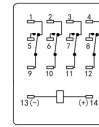
4H



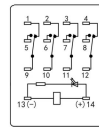
4D



4Z



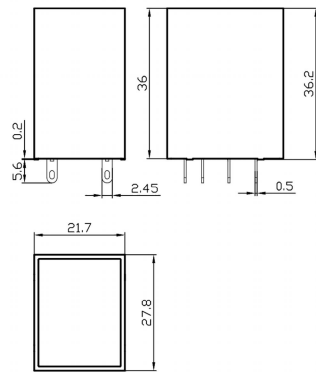
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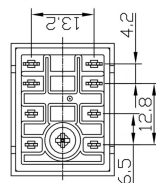
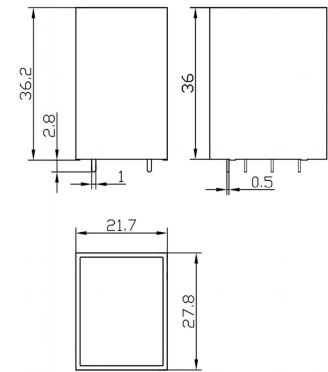
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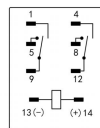
Solder Terminals



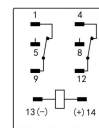
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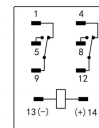
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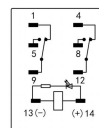
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2Z



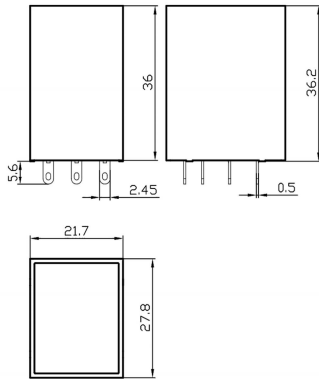
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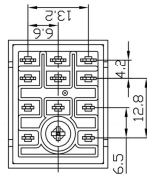
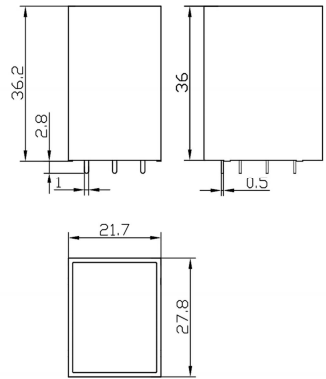
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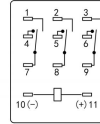
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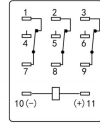
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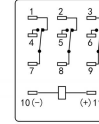
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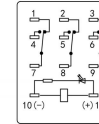
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3Z



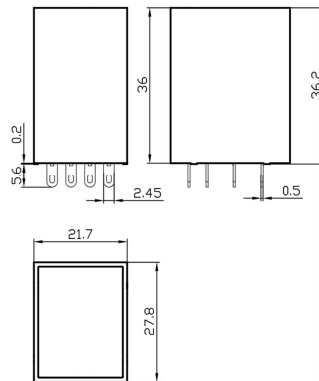
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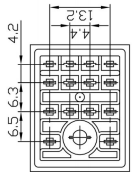
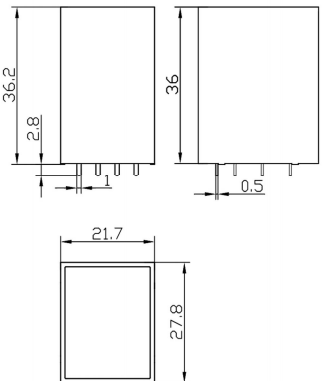
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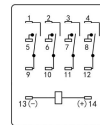
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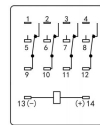
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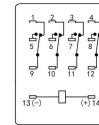
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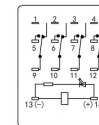
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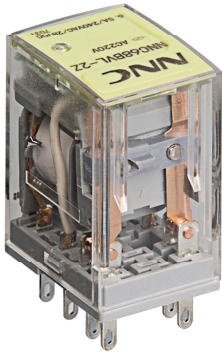
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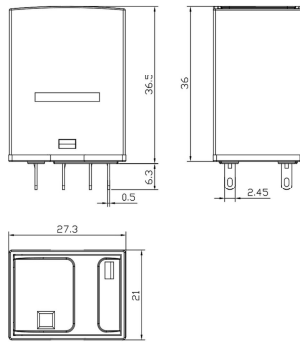
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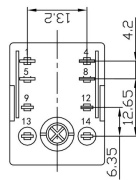
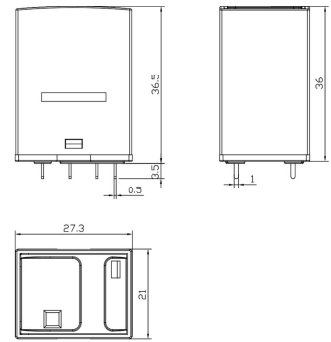
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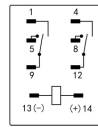
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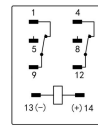
PCB Terminals



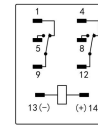
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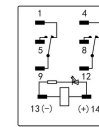
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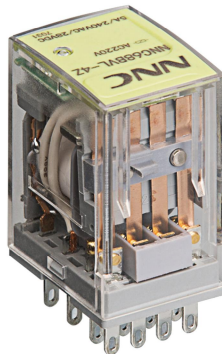
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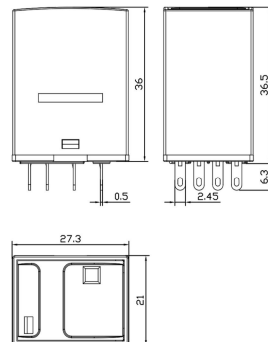
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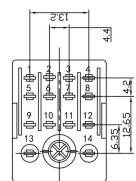
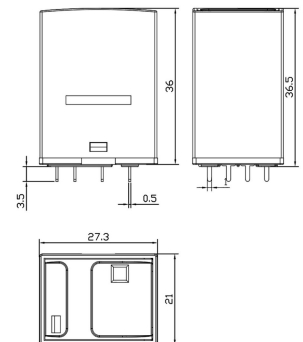
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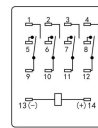
Solder Terminals



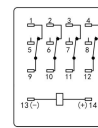
PCB Terminals



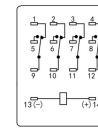
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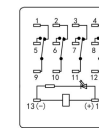
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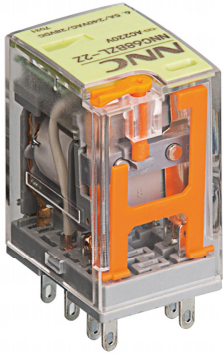
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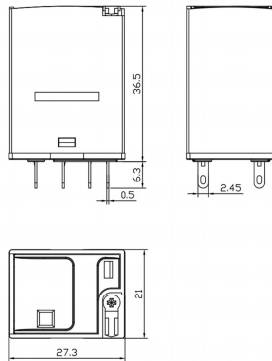
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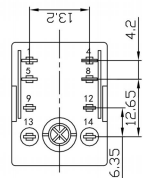
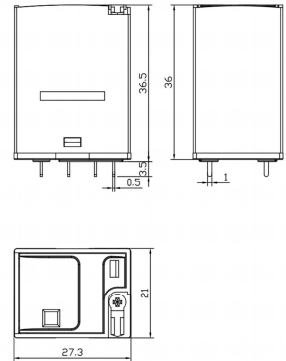
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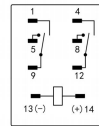
Solder Terminals



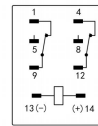
PCB Terminals



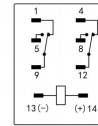
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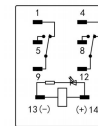
2D



2Z



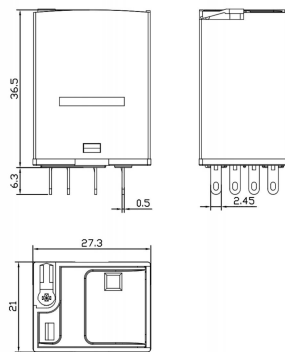
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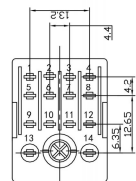
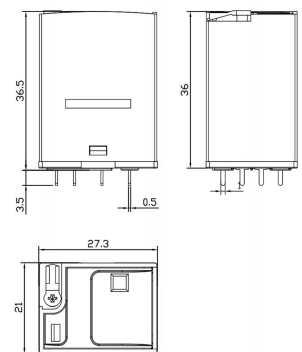
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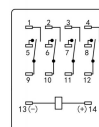
Solder Terminals



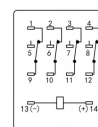
PCB Terminals



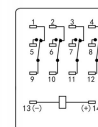
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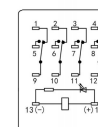
4D



4Z



L-4Z



PACKING INFORMATION

Items	NNC68B
Inner package	Paper box
Inner packing QTYS(PCS)	20
Outer packing QTYS(PCS)	600
Outer packing Dimensions(mm)	330×310×345
Net weight(KG)	19
Gross weight(KG)	20

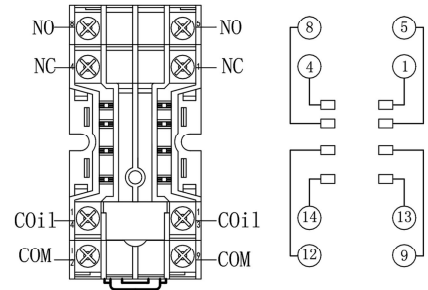
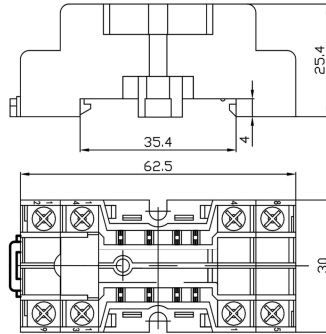
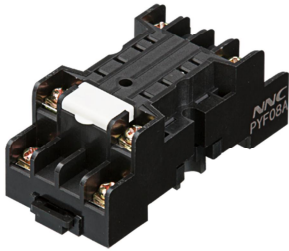
SOCKETS/ACCESSORIES

LIST OF SOCKETS

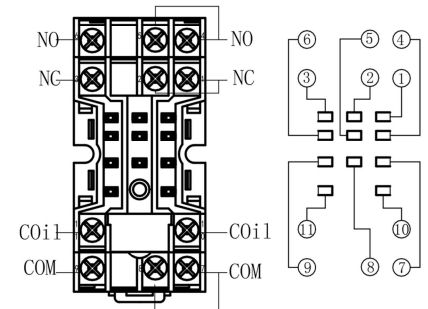
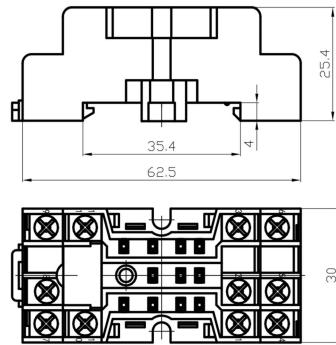
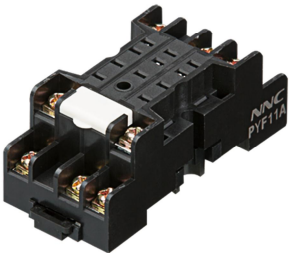
Applicable relay	Socket model	Certificates	Accessories
	PYF08A	UL:E235027 CE:5399090516	Metallic clips
NNC68B series	PYF08A1		Metallic clips
2 poles	PYF08A3		Metallic clips/Plastic clips; Name plate
	PYF08A-E	UL:E235027 CE:5399090516	Metallic clips
	PYF08A-E2	UL:E235027 CE:5399090516	Plastic clips; Name plate; LED Module
	PYF08A3-E		Metallic clips/Plastic clips; Name plate
	18F2C A2		Metallic clips
NNC68B series	PYF11A	UL:E235027 CE:5399090516	Metallic clips
3 poles	18F3C A2		Metallic clips
	PYF14A	UL:E235027 CE:5399090516	Metallic clips
	PYF14A1		Metallic clips
NNC68B series	PYF14A3		Metallic clips/Plastic clips; Name plate
4 poles	PYF14A-E		Metallic clips
	PYF14A-E2	UL:E235027 CE:5399090516	Plastic clips; Name plate; LED Module
	PYF14A3-E		Metallic clips/Plastic clips; Name plate
	18F4C A2		Metallic clips

APPEARANCE(DIMENSIONS)/ WIRING DIAGRAM(Unit: mm)

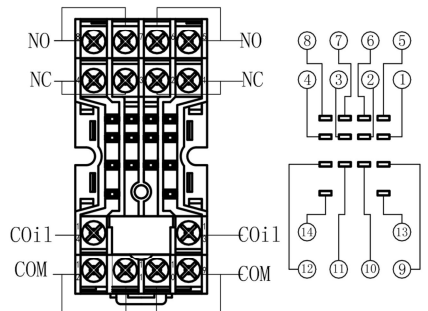
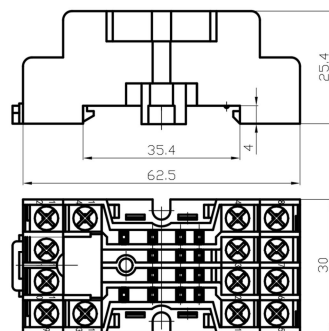
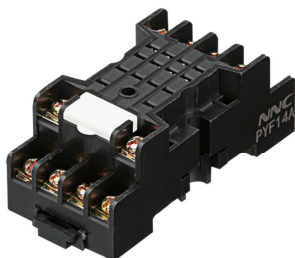
● PYF08A



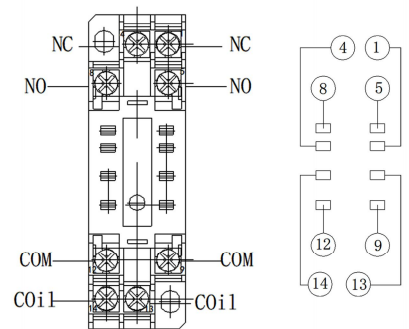
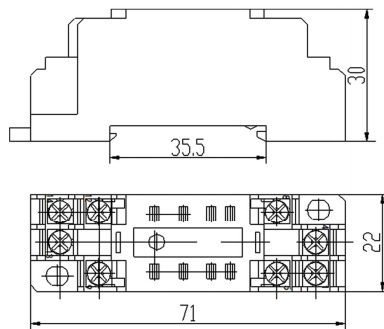
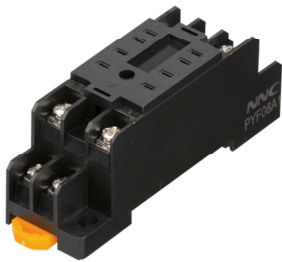
● PYF11A



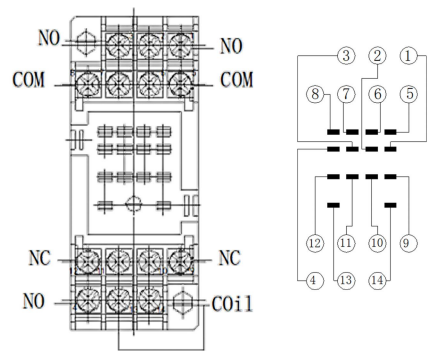
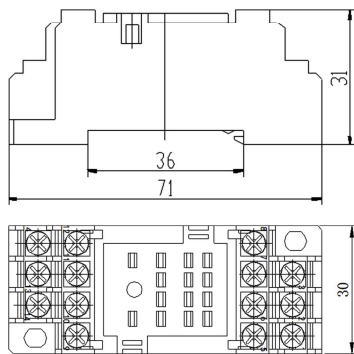
● PYF14A



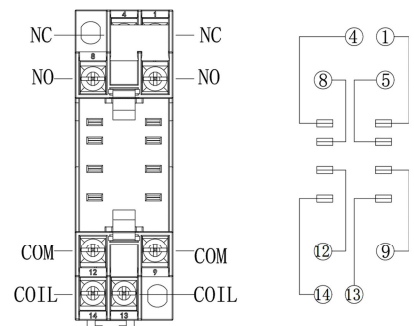
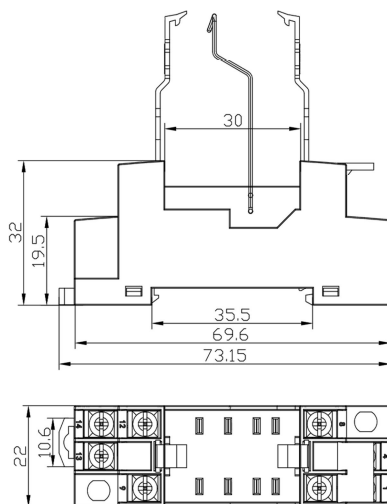
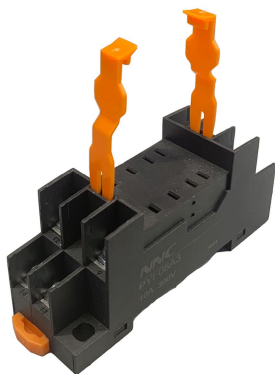
● **PYF08A1**



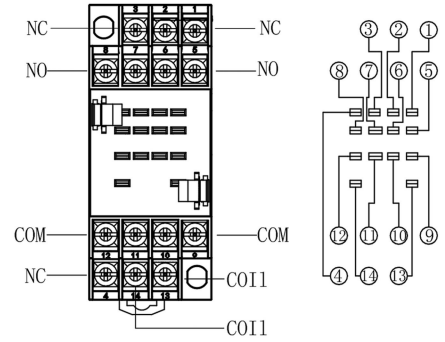
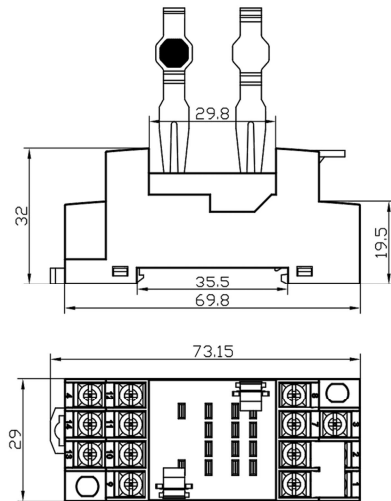
● **PYF14A1**



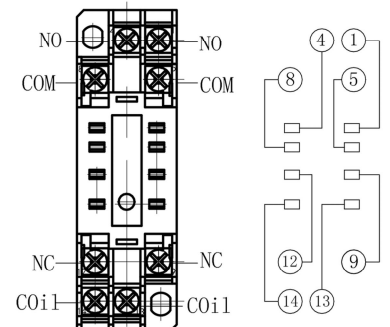
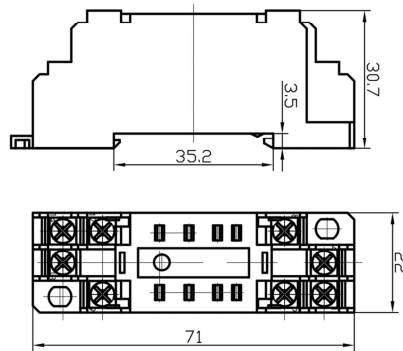
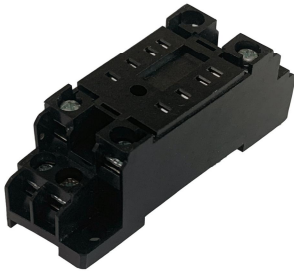
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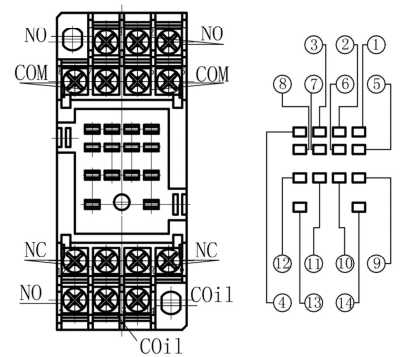
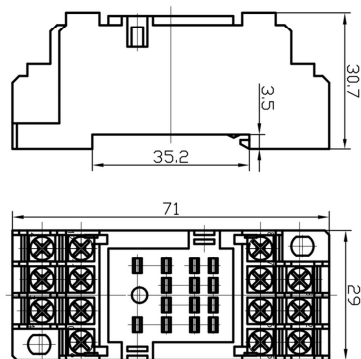
● **PYF14A3**



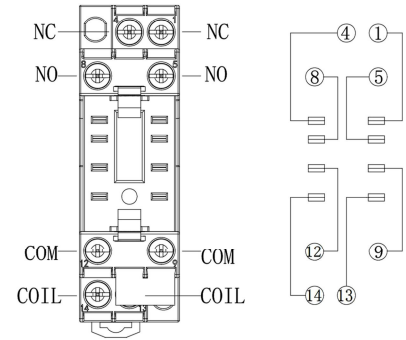
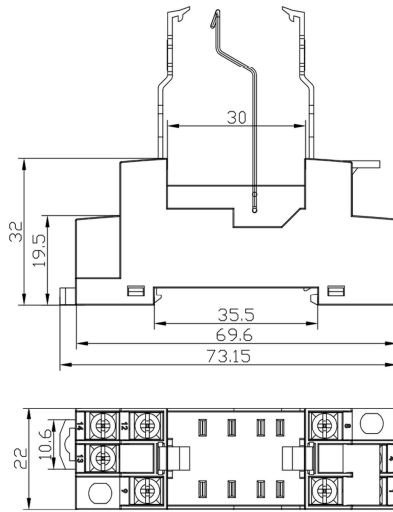
● **PYF08A-E**



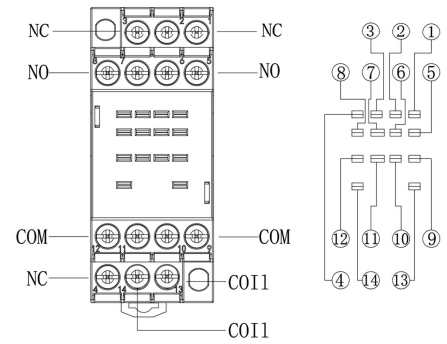
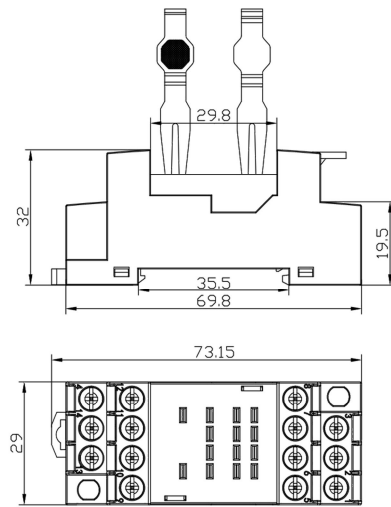
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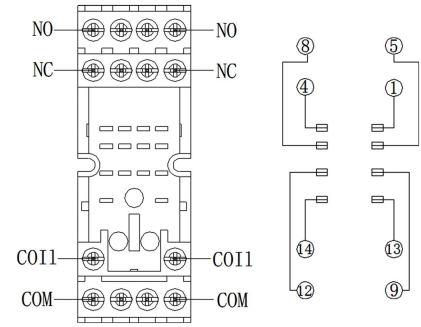
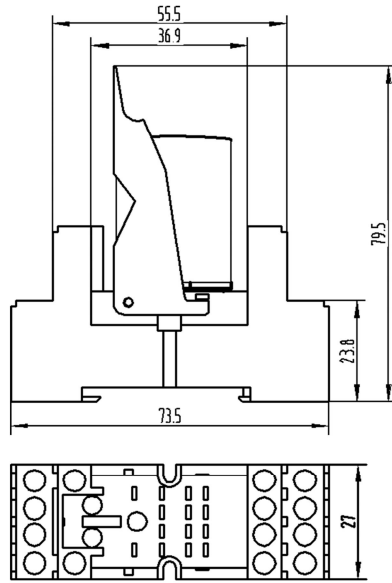
● PYF08A3-E



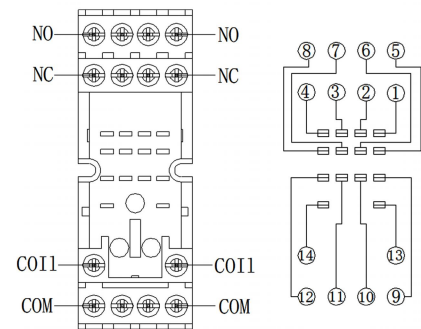
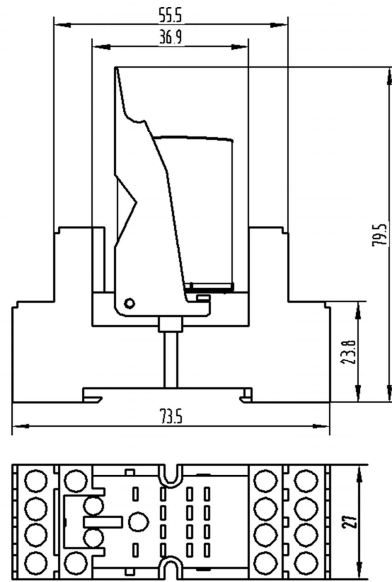
● PYF14A3-E



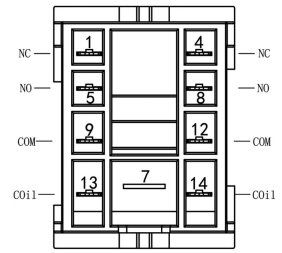
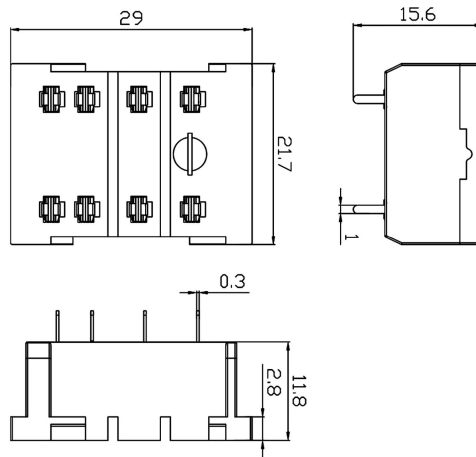
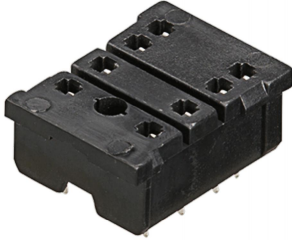
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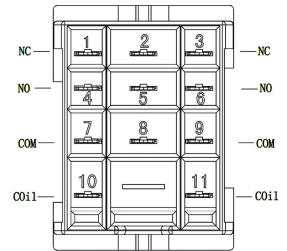
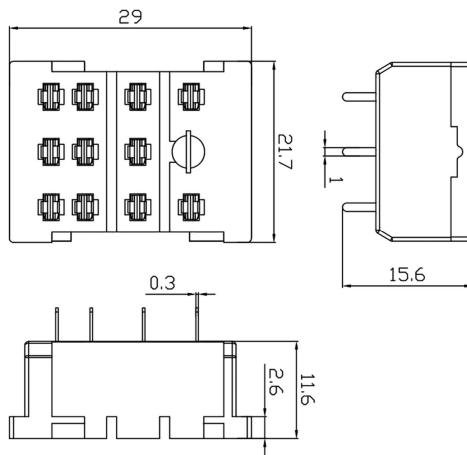
● PYF14A-E2



● 18F2C A2



● 18F3C A2



● 18F4C A2

