



NXJ Series Miniature Relays

Applicable scope

Three types of contacts (2Z, 3Z, and 4Z): complete range of AC/DC models; high contact reliability, applicable to PLC control; transparent dust cover encapsulation; supplied with sockets; status indicators with optional specifications.

Normal operation conditions and installation conditions

Temperature range	-40°C~+70°C
Relative humidity	Up to 95% at +25°C
Atmospheric pressure	86kPa~106kPa
Operation position	Any

Description

NXJ	4Z	(MD)	6VDC	PIN
Product Series	Contact group	Additional function	Coil voltage	Connection method
	2Z: 2 changeover contacts 2ZH: 2 changeover contacts with big current 3Z: 3 changeover contacts 4Z: 4 changeover contacts	Blank: Standard product D: With status indicator B: With status indicator and surge suppressor(DC) M: With arc shield(4Z)	6VAC 12VAC 24VAC 36VAC 48VAC 100/110VAC 110/120VAC 220VAC 200/220VAC 220/240VAC 380VAC 5VDC 6VDC 12VDC 24VDC 36VDC 48VDC 100/110VDC 220VDC	PIN: PCB welding PLU: Plug in

Model example:

NXJ-A220-2Z1D represents the following relay: rated control coil voltage: AC220V; contact form: switching between two groups (1NO + 1NC for each contact group, contact rated operation current 5A); directly plugged, with indicator function.



Parameters

Contact parameters

Contact form	2Z (C), 3Z (C), 4Z (C), 2ZH(C)
Initial contact resistance	50mΩ
Contact material	Silver alloy
Contact load (cos=1.0) Φ	2Z, 3Z: 5A; 4Z: 3A; 2ZH: 10A (240VAC/28VDC) 250VAC/30VDC
Maximum switch voltage	250VAC/30VDC
Maximum switch current	2Z, 3Z: 5A; 4Z: 3A; 2ZH: 10A
Maximum switch power	2Z,3Z:1250VA/140W,2ZH:2200VA/280W
	4Z:750VA/84A
Electrical life (cycles)	1.2×10 ⁵ * (see the safety certification report for details)
Mechanical life (cycles)	2×10 ⁷

Performance and characteristics parameters

Insulation resistance		1000MΩ (500VAC)
Dielectric strength	Between contact coils	1500VAC, 1min
	Between broken contacts	1000VAC, 1min
Action time		≤15ms
Release time		
Impulse (stability)		≤15ms
Vibration		Acceleration 100m/s ² , pulse duration:11ms
Form of leading-out end		Dual-amplitude 1mm, (10~55)Hz
Dimensions (mm)		Directly plugged, welded
		27.5×21.5×35.5

Coil parameters

Rated power	0.9~1W, 1.2~1.8VA
Pull-in voltage	DC≤75% rated voltage; AC: ≤80% rated voltage
Release voltage	DC≥10% rated voltage; AC: ≥20% rated voltage
Maximum voltage	120% rated voltage

Specification parameters

Rated voltage VDC	Action voltage VDC (≤)	Release voltage VDC (≥)	Coil resistance(20°C) Ω
5	3.75	0.5	28×(1±10%)
6	4.5	0.6	40×(1±10%)
12	9.0	1.2	160×(1±10%)
24	18.0	2.4	640×(1±10%)
36	27.0	3.6	1440×(1±15%)
48	36.0	4.8	2200×(1±15%)
110	82.5	11.0	14500×(1±15%)
127	95.3	12.7	17000×(1±15%)
220	165.0	22.0	39000×(1±15%)

Rated voltage VAC	Action voltage VAC (≤)	Release voltage VAC (≥)	Coil resistance (20°C) Ω
6	4.8	1.2	10.5×(1±10%)
12	9.6	2.4	44×(1±10%)
24	19.2	4.8	180×(1±10%)
36	28.8	7.2	380×(1±10%)
48	38.4	9.6	650×(1±10%)
110	88.0	22	3670×(1±15%)
127	101.6	25.4	4100×(1±15%)
220/230/240	176.0	44	15800×(1±15%)
380	304.0	72	39000×(1±15%)
400	320	80	43000×(1±15%)
415	332	83	46000×(1±15%)

Accessories

Supplied sockets (optional)

Relay model	NXJ/2Z (D)		
Supplied socket model	RS-NXJ-2Z/C1	RS-NXJ-2Z/C2	RS-NXJ-2Z/C3 63×30.5×26
Socket dimensions (mm)	72×23×31	72×23×31	
Socket lead form	Screw type wiring terminal (device type, rail type)		

Relay model	NXJ/3Z (D)		
Supplied socket model	RS-NXJ-3Z/C1	RS-NXJ-3Z/C2	RS-NXJ-3Z/C3
Socket dimensions (mm)	72×30×31	72×30×31	63×30.5×26
Socket lead form	Screw type wiring terminal (device type, rail type)		

Relay model	NXJ/4Z (D)		
Supplied socket model	RS-NXJ-4Z/C1	RS-NXJ-4Z/C2	RS-NXJ-4Z/C3
Socket dimensions (mm)	72×30×31	72×30×31	63×30.5×26
Socket lead form	Screw type wiring terminal (device type, rail type)		

Relay model	NXJ-2ZH (D)		
Supplied socket model	RS-NXJ-2ZH/C1	RS-NXJ-2ZH/C2	
Socket dimensions (mm)	72X23X31	79X29X33	
Socket lead form	Screw type wiring terminal (device type, rail type)		

Connection socket and fixing hook

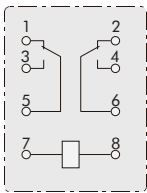
Model \ type	Normal	With finger protection	With indication sign
NXJ/2Z ☐	RS-NXJ-2Z/C1	RS-NXJ-2Z/C2	RS-NXJ-2Z/C3
NXJ/3Z ☐	RS-NXJ-3Z/C1	RS-NXJ-3Z/C2	RS-NXJ-3Z/C3
NXJ/4Z ☐	RS-NXJ-4Z/C1	RS-NXJ-4Z/C2	RS-NXJ-4Z/C3
Fixing hook	NG102	NG102	NG103

Dimensions and installation

Body dimensions and installation sizes

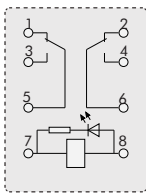
2ZH

Bottom wiring diagram



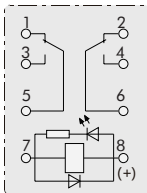
2ZH

Bottom wiring diagram (with indicator)



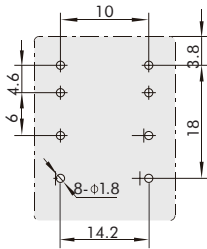
2ZH

Bottom wiring diagram (with indicator and diode)



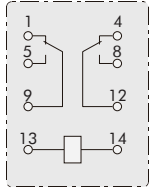
2ZH

Installation hole position



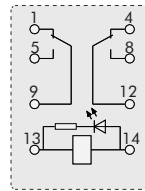
2Z

Bottom wiring diagram



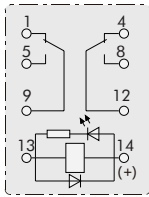
2Z

Bottom wiring diagram (with indicator)



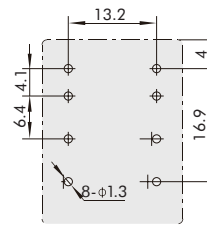
2Z

Bottom wiring diagram (with indicator and diode)



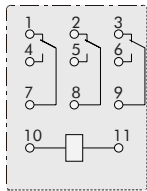
2Z

Installation hole position



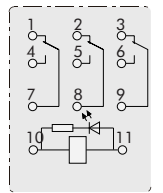
3Z

Bottom wiring diagram



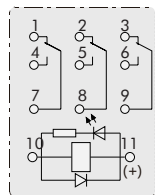
3Z

Bottom wiring diagram (with indicator)



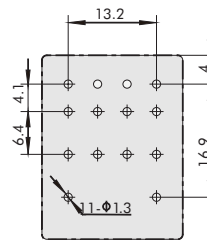
3Z

Bottom wiring diagram (with indicator and diode)



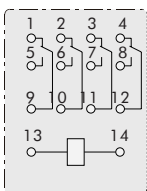
3Z

Installation hole position



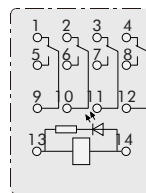
4Z

Bottom wiring diagram



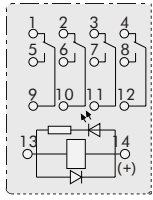
4Z

Bottom wiring diagram (with indicator)



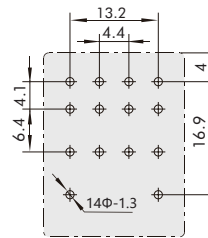
4Z

Bottom wiring diagram (with indicator and diode)



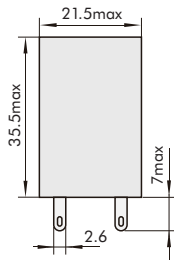
4Z

Installation hole position



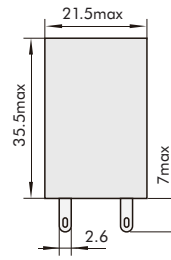
2Z

Outline drawing (directly plugged)



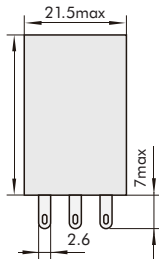
2Z

Outline drawing (welded)



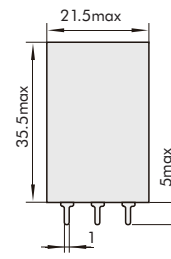
3Z

Outline drawing (directly plugged)



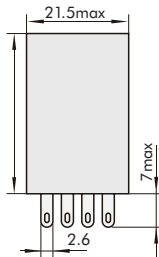
3Z

Outline drawing (welded)



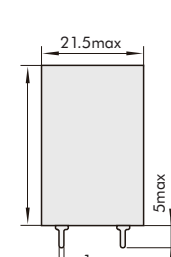
4Z

Outline drawing (directly plugged)



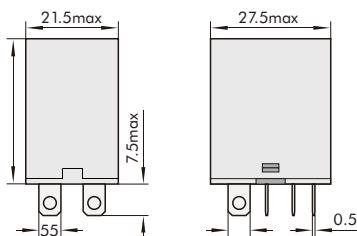
4Z

Outline drawing (directly plugged)



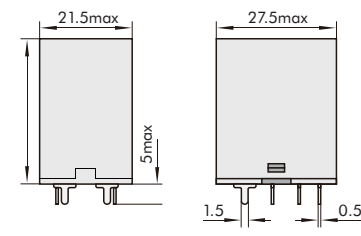
2ZH

Outline drawing (directly plugged)



2ZH

Outline drawing (directly plugged)

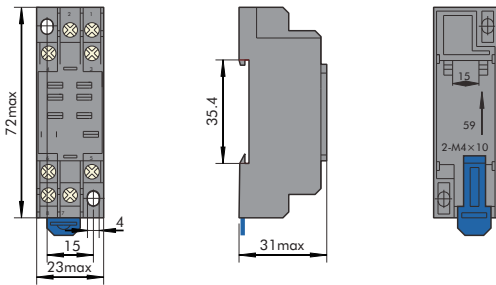


Socket outline and dimensions

RS-NXJ-2Z/C1



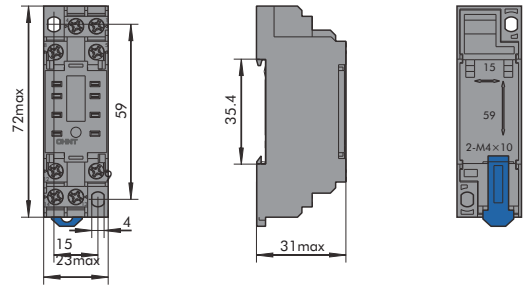
72×23×31 (mm)



RS-NXJ-2Z/C2



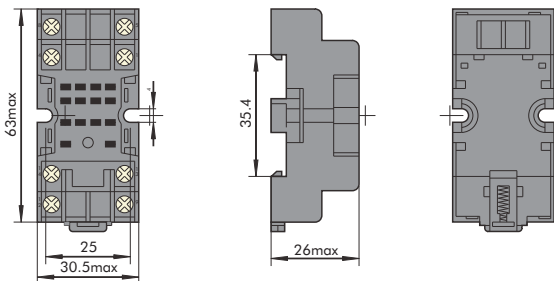
72×23×31 (mm)



RS-NXJ-2Z/C3



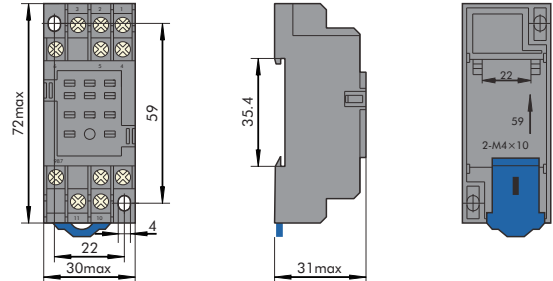
63×30.5×26 (mm)



RS-NXJ-3Z/C1



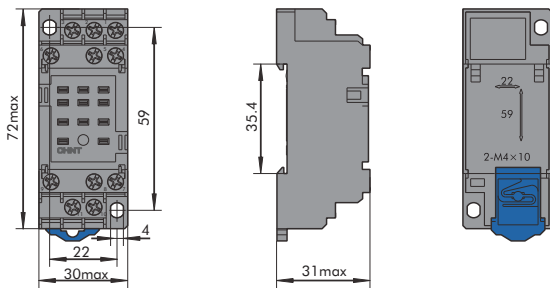
72×30×31 (mm)



RS-NXJ-3Z/C2



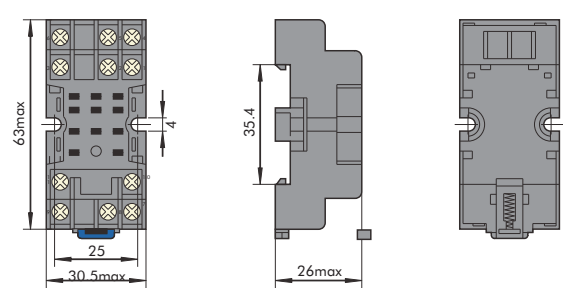
72×30×31 (mm)



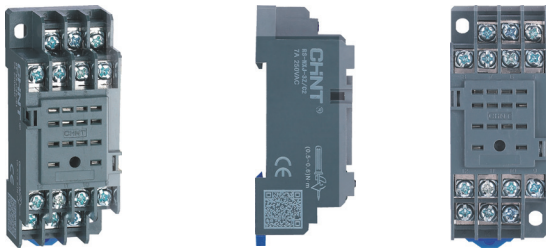
RS-NXJ-3Z/C3



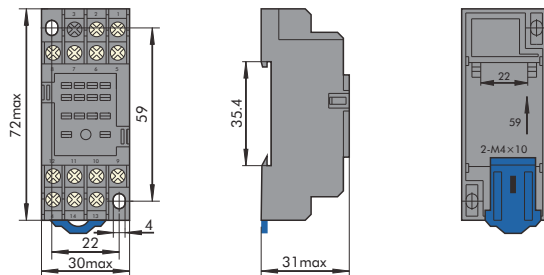
63×30.5×26 (mm)



RS-NXJ-4Z/C1



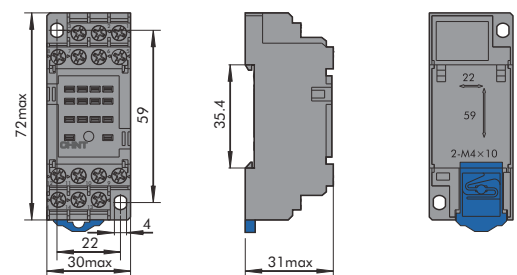
72×30×31 (mm)



RS-NXJ-4Z/C2

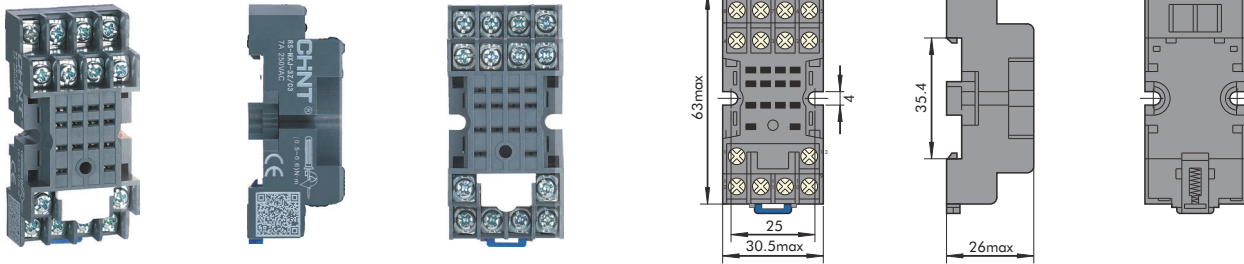


72×30×31 (mm)



RS-NXJ-4Z/C3

63×30.5×26 (mm)



Hook outline

NG102



NG103



Socket + hook

