



## Overview

### 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	-	A	220V	-	2Z	1	D
Relay model		Coil type	Coil voltage		Contact form	Connection method	Additional function
		A: AC  None: DC	DC: 5V, 6V, 12V, 24V, 36V, 48V, 110V, 127V, 220V  AC: 6V, 12V, 24V, 36V, 48V, 110V, 127V, 220V, 240V, 380V, 400V, 415V		2Z: Switching between two groups  3Z: Switching between three groups  4Z: Switching between four groups  2ZH: Switching between two groups with big current	1: Directly plugged  6: Welded	None: Standard product  D: With status indicator  B: With status indicator and surge suppressor (DC)  M: With arc isolator, only for 4Z contact

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
Contactload(cosΦ=1.0)	2Z, 3Z: 5A; 4Z: 3A; 2ZH: 10A (240VAC/28VDC)
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/84W
Electrical life (cycles)	1.2×10 <sup>6</sup> * (see the safety certification report for details)
Mechanical life (cycles)	2×10 <sup>7</sup>

### 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	≤15ms	
Impulse (stability)	Acceleration 100m/s <sup>2</sup> , pulse duration:11ms	
Vibration	Dual-amplitude 1mm, (10~55)Hz	
Form of leading-out end	Directly plugged, welded	
Dimensions (mm)	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
Socket dimensions (mm)	72×23×31	72×23×31	63×30.5×26
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)		

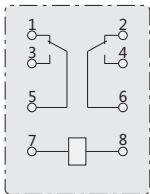
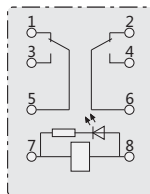
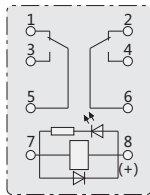
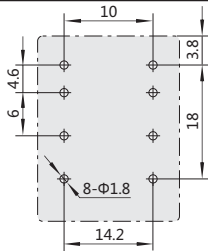
Relay model	NXJ-2ZH (D)	
Supplied socket model	RS-NXJ-2ZH/C1	RS-NXJ-2ZH/C2
Socket dimensions (mm)	72X23X31	79X29X33
Socket lead form	Screw type wiring terminal (device type, rail type)	

### 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

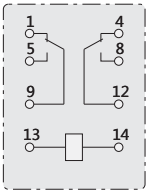
## Dimensions and installation

### Body dimensions and installation sizes

<p>2ZH</p> <p style="text-align: right;">Bottom wiring diagram</p> 	<p>2ZH</p> <p style="text-align: right;">Bottom wiring diagram (with indicator)</p> 
<p>2ZH</p> <p style="text-align: right;">Bottom wiring diagram (with indicator and diode)</p> 	<p>2ZH</p> <p style="text-align: right;">Installation hole position</p> 

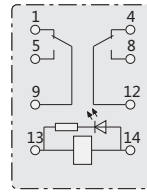
2Z

Bottom wiring diagram



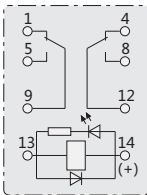
2Z

Bottom wiring diagram (with indicator)



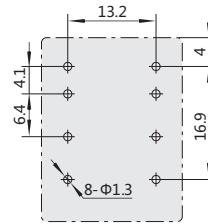
2Z

Bottom wiring diagram (with indicator and diode)



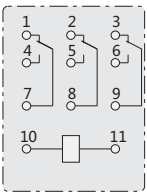
2Z

Installation hole position



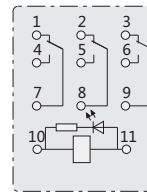
3Z

Bottom wiring diagram



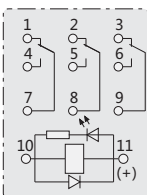
3Z

Bottom wiring diagram (with indicator)



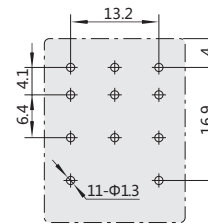
3Z

Bottom wiring diagram (with indicator and diode)



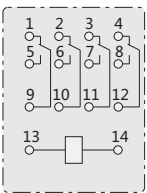
3Z

Installation hole position



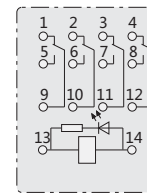
4Z

Bottom wiring diagram

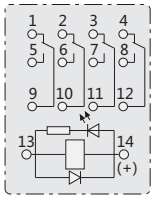


4Z

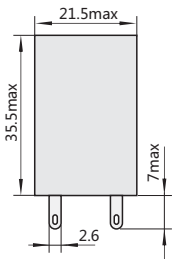
Bottom wiring diagram (with indicator)



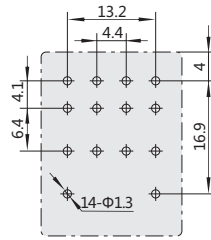
4Z Bottom wiring diagram (with indicator and diode)



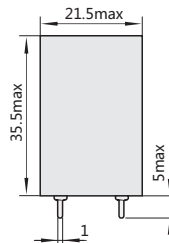
2Z Outline drawing (directly plugged)



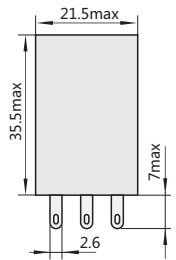
4Z Installation hole position



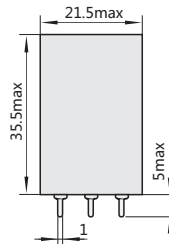
2Z Outline drawing (welded)



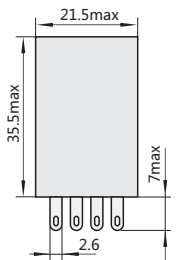
3Z Outline drawing (directly plugged)



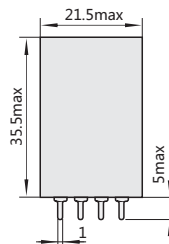
3Z Outline drawing (welded)



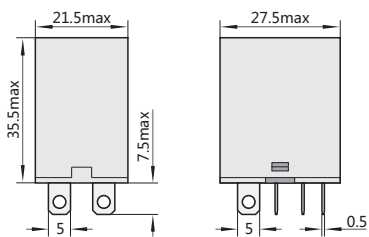
4Z Outline drawing (directly plugged)



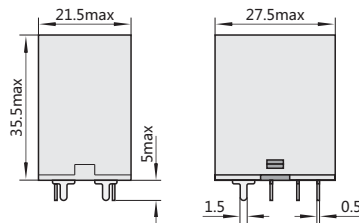
4Z Outline drawing (welded)



2ZH Outline drawing (directly plugged)



2ZH Outline drawing (welded)

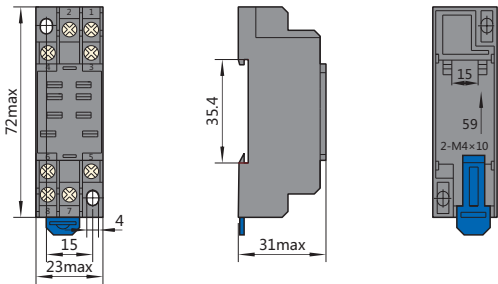


Socket outline and dimensions

RS-NXJ-2Z/C1



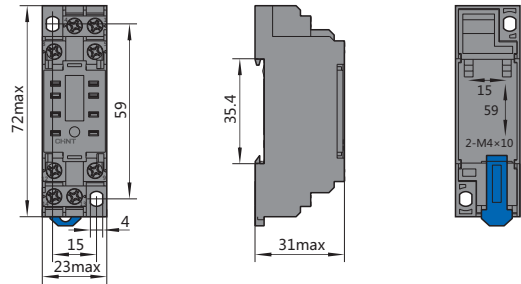
72×23×31 (mm)



RS-NXJ-2Z/C2



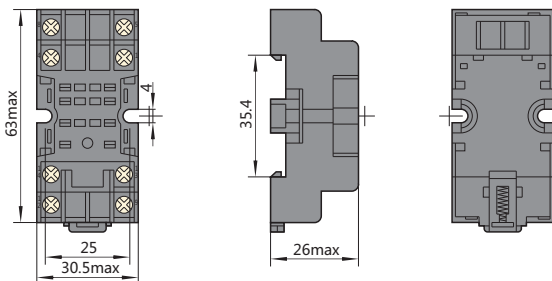
72×23×31 (mm)



RS-NXJ-2Z/C3



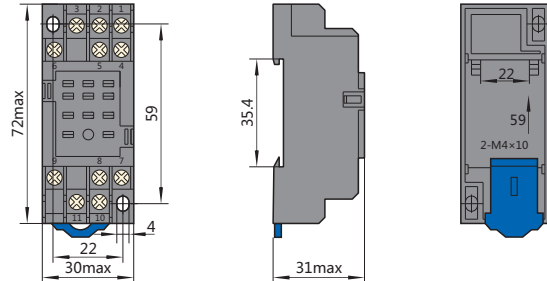
63×30.5×26 (mm)



RS-NXJ-3Z/C1



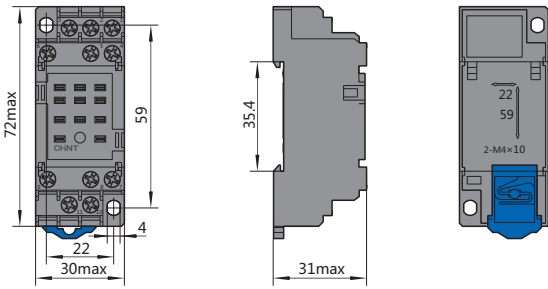
72×30×31 (mm)



RS-NXJ-3Z/C2



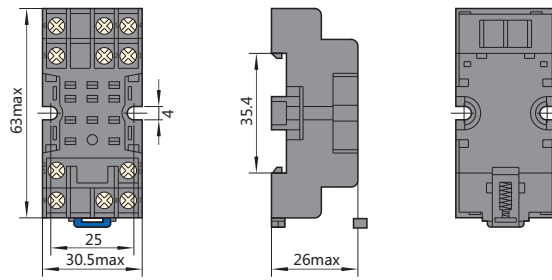
72×30×31 (mm)



RS-NXJ-3Z/C3



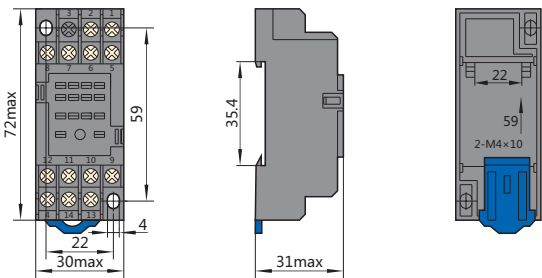
63×30.5×26 (mm)



RS-NXJ-4Z/C1



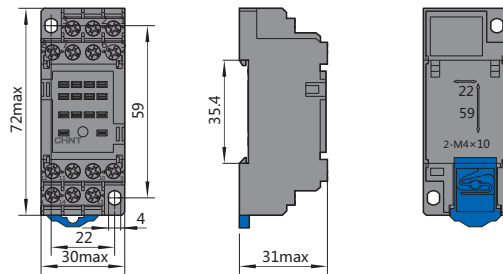
72×30×31 (mm)



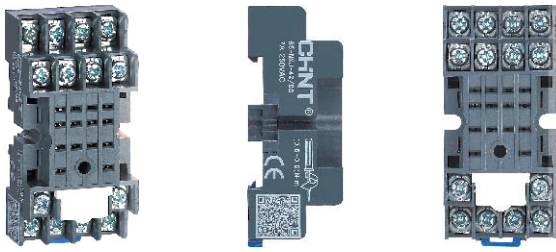
RS-NXJ-4Z/C2



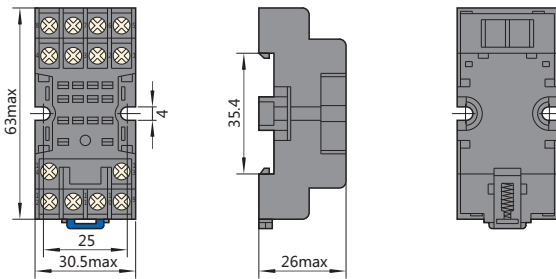
72×30×31 (mm)



RS-NXJ-4Z/C3



63×30.5×26 (mm)



### Hook outline

NG102



NG103



Socket + hook

