

NXZB-63、NXZHB-63
Automatic Transfer Switch

User Instructions



Safety Warning

- 1 Only professional technicians are allowed for installation and maintenance.
- 2 Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
- 3 You are prohibited from touching the conductive part when the product is operating.
- 4 Do not install the product at places where gas medium can cause metal corrosion and insulation damage.
- 5 After installing the product, finishing the inspection of load side line and splitting the fire-resistance circuit, the controller must be set to "Manual" position and the product must be set to split position. Switch the controller to "Auto" position after line fault is eliminated.
- 6 To avoid dangerous accidents, the products should be installed and secured according to the instructions.
- 7 This product is applicable to environment A. The product will generate harmful electromagnetic interference if used in environment B, in which case, user should take proper protective measures.

3 Outline and Installation Dimensions

Unit: mm

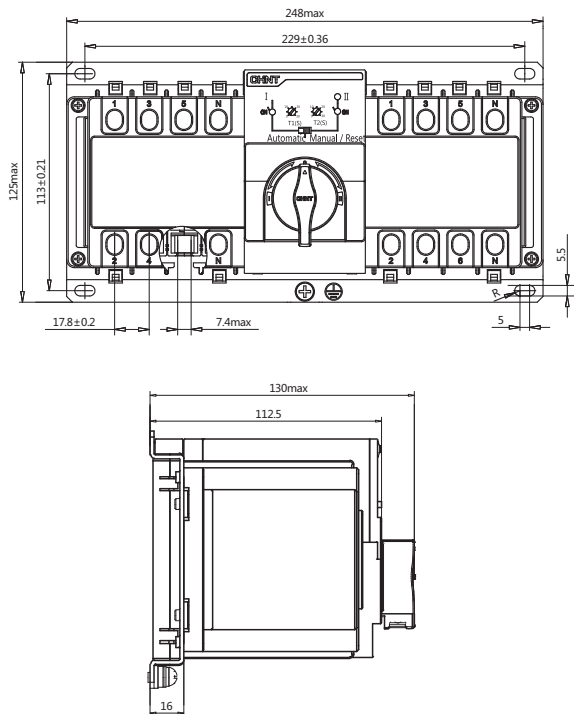
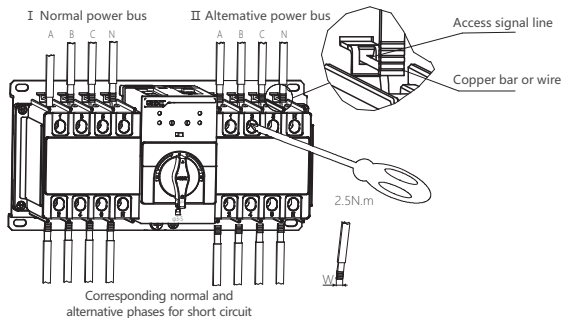


Fig 2 Outline and installation dimensions

4 Installation and Wiring



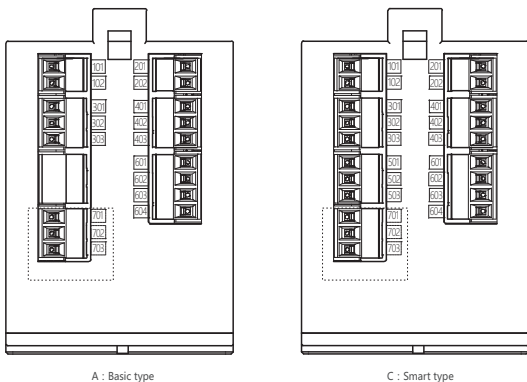
⚠ The phase sequences of both power supplies must be the same. The N lines of both power supplies must be connected correctly (This is a safety warning).

Do not install leakage protection device at the front end of the product, otherwise misoperation may occur to the device.

Fig 3 Installation and wiring

Table 1 Sectional area, width and number of copper wire

Safe current (A)	20	25	32	40 50	63
Copper wire sectional area (mm ²)	2.5	4	6	10	16
Copper wire width (mm)	≤6				
Copper wire number	1				
Insert copper wire length (mm)	15≥L≥9				



A : Basic type

C : Smart type

(701-703 is optional communication function)

Fig 4 The type of controller

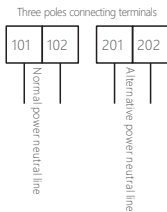
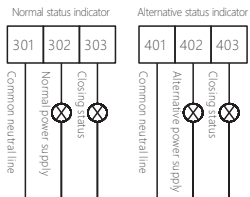


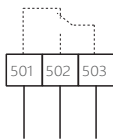
fig5-1



Output is active AC230V/0.5A

fig5-2

Motor control output signal
(passive signal, contact carrying current 3A)

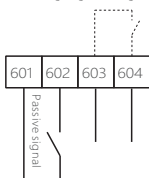


Generator control

(The generator controls output of passive signals)
If the normal power supply is normal, 503 is connected to 501
If the normal power supply is faulty, 503 is connected to 502
(This module is not available for Type A controller)

fig5-3

Firefighting control signal



Input firefighting signal must be passive signal!
603/604 feedback signal terminal is optional

Communication function
(optional)

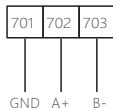


fig5-4

Fig 5 Terminal wiring diagram

5 Display and Operation Interface

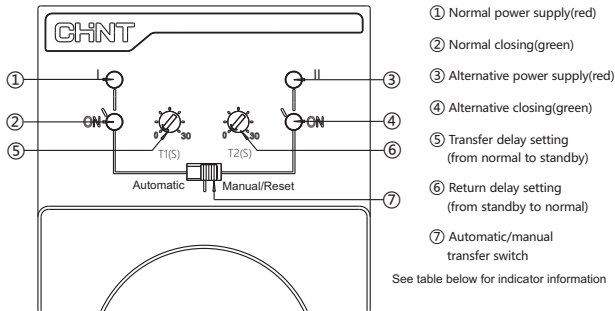


Fig 6 Display and operation interface

Table 2 Indicator information

Indicator information	①	②	③	④
The normal power supply is normal	Constantly ON			
The normal power is closed		Constantly ON		
The alternative power supply is normal			Constantly ON	
The alternative power is closed				Constantly ON
Transfer delay				Flashing
Return delay		Flashing		
Normal circuit breaker trips	Flashing	Flashing		
Alternative circuit breaker trips				Flashing
Product transfer fault	Flashing		Flashing	
Fire protection linkage		Flashing	Flashing	Flashing

6 Product Troubleshooting

Transfer tests on the product are recommended with an interval of three months.

Table 3 Common faults and eliminations

Common fault symptoms	Fault reason	Fault elimination method
The controller indicator is not lit after power on.	The power sampling lines are in poor contact or have broken off.	Check the corresponding wires and make correct connections.
	The 3 Pole product(neutral) is not connectde to the terminals.	
	A product fuse has been blown.	Replace the fuse.
	Phase loss or failure.	Check normal voltage of the normal circuit.
Four indicators flash at the same time.	Self-protection of the chips of the controller power supply.	Power on the device again about 10 minutes after power-off.
	Controller failure.	Replace the controller.
The controller indicator indicates tripping.	A fault in the normal circuit causes the circuit breaker to trip.	Examine and eliminate the fault in the normal circuit.
	Phase loss of the actuation circuit breaker (Phase A,Phase N).	Replace the controller or the product.
	The normal/alternative circuit breaker on the product load side is not wired according to product instructions,especially in Phase A and Phase N.	Make wiring according to the User Manual and check if the sampling wire has loosened.

7 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHNT

QC PASS

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IEC/EN 60947-6-1

PD1 Check 15

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

CHINT

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User Instructions

Zhejiang Chint Electrics Co., Ltd.

Add: No.1, CHINT Road, CHINT Industrial Zone, North Baixiang,
Yueqing, Zhejiang 325603, P.R.China

E-mail: global-sales@chint.com

Website: <http://en.chint.com>

