# ⚠ 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 insulatin 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.



## 1 Applicatin Information

a) The normal application temperature of the product is -5℃~+40℃;

Note: If you need to use the product under -25℃~+70℃, please consult the manufacturer.

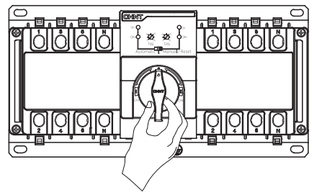
b) If you need to use the product above 2000m altitude, please consult the manufacturer;

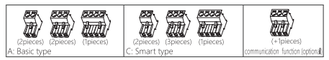
c) Pollution class: Class 3;

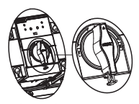
d) Installation category of main circuit: III;

e) Enclosure protection class: IP20.

## 2 Inspection and Test





OFF lock-up function. The product must be set to manual mode and at disconnected position, the keyhole diameter is Φ5.5.

**Fig 1 Inspection and test**

⚠

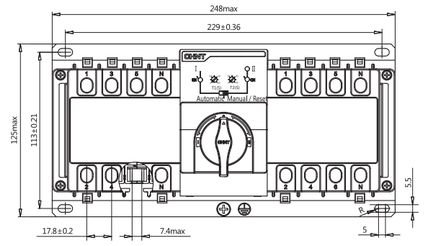
1. Determine product technical parameters.
2. Remove the signal sampling line of the control circuit of the controller at the incoming end of the product before conducting insulation test.





## 3 Outline and Installation Dimensions

Unit: mm



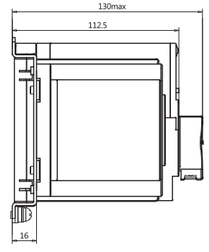
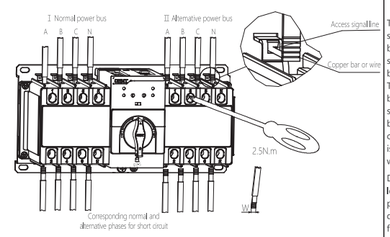




**Fig 2 Outline and installation dimensions**





## 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.

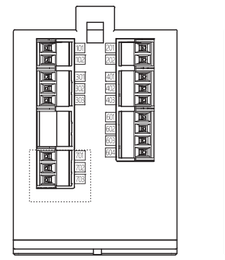
**Fig 3 Installation and wiring**

**Tabla 1 Sectional area, width and number of copper wire**

| Safe current (A) | 20 | 25 | 32 | 40<br>50 | 63 |
|---|---|---|---|---|---|
| Copper wire sectional area (mm²) | 2.5 | 4 | 6 | 10 | 16 |
| Copper wire width (mm) | ≤6 | | | | |
| Copper wire number | 1 | | | | |
| Insert copper wire length (mm) | 15≥L≥9 | | | | |








(701~703 is optional communication function)

**Fig 4 The type of controller**

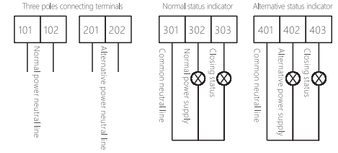



**fig5-1** **fig5-2**





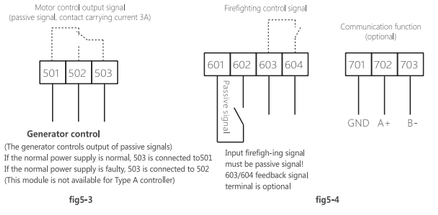
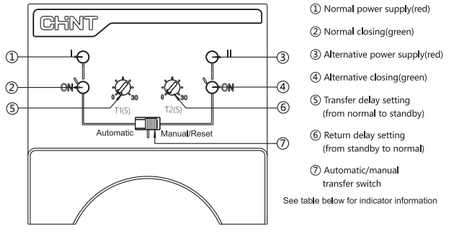



**fig5-3** **fig5-4**

**Fig 5 Terminal wiring diagram**

## 5 Display and Operation Interface




① Normal power supply(red)
② Normal closing(green)
③ Alternative power supply(red)
④ Alternative closing(green)
⑤ Transfer delay setting (from normal to standby)
⑥ Return delay setting (from standby to normal)
⑦ Automatic/manual transfer switch

See table below for indicator information

**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

NXZB-63、NXZHB-63
Automatic Transfer Switch
IEC/EN 60947-6-1

PD1 Check 15

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.



CHNT
CHINT ELECTRICS

NXZB-63、NXZHB-63
Automatic Transfer Switch
User Instructions

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NO:2020.03

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NXZB-63、NXZHB-63
Automatic Transfer Switch

# User Instructions

Standard: IEC/EN 60947-6-1