TX3231

Wireless Relay Module
Installation and Operation Manual

tna TECHNOLOGY

Product Safety

To prevent severe injury and loss of life or property, read the instruction carefully before installing the detector to ensure proper and safe operation of the system.

European Union directive
2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

For more information please visit the website at www.recyclethis.info

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I. General

TX3231 Wireless Relay Module (hereinafter referred to as module) is used to communicate between wireless detection alarm system front-end equipment and wireless transmission module. Wireless FosLink communication is used between module and wireless detection alarm system front-end equipment to transfer data through wireless FosLink and wireless transmission module, and transfer information of front-end equipment to wireless transmission module. Then wireless transmission module transfers the information to the controller through wireless FosLink communication. Wireless transmission module monitors the status of wireless alarm system front-end equipment at real time and sends control commands to wireless detection alarm system front-end equipment, like reset command to achieve long-distance communication of wireless detection alarm system front-end equipment and control panel.

This product is of new type structure, which is easy for construction and installation, with beautiful appearance.

II. Characteristics

1. 24V power input design.

2. Built-in high performance microprocessor.

3. Increase transmission distance by wireless FosLink signal.

4. Directly configure the module by FosLink configuration software.

III. Technical parameters

1. Operating voltage:DC15V~ DC26V

2. Maximum current:<250mA

3. Indication and operation

4. The module is provided with three status indicators and one reset key.

5. The number of front-end equipment: 200

6. Wireless communication frequency:470～510MHz

7. Wireless transmitting power:≤17dBm

8. Maximum communication distance: 1500m in open air

9. Mounting type: wall-mounted type

10. Operating environment:

11. Temperature -10℃～+42℃, relative humidity ≤95%RH, without condensation

12. Outline dimension : 118mm×105mm×28mm (excluding antenna)

13. Housing color: black

14. Weight: about180g

15. Standard: Q/THA 20-2020

IV. Structural features and operating principle

1. Outline dimension and installation dimension of the gateway as shown in Fig. 1 (unit: mm).
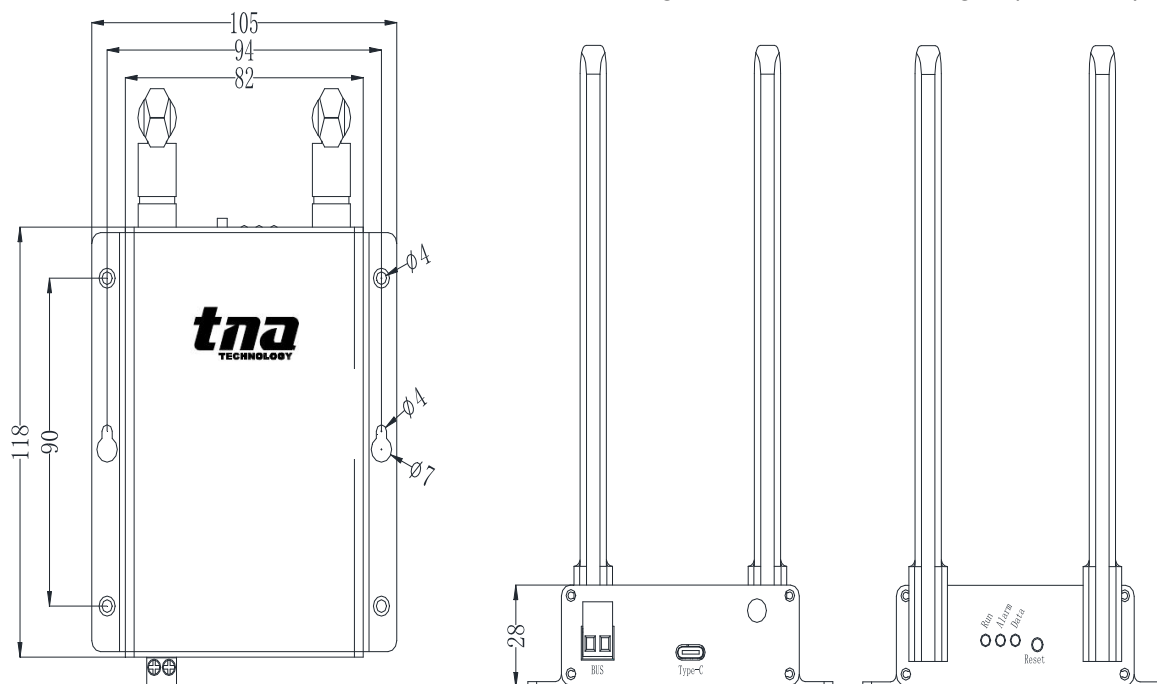
Fig. 1 TX3231 outline dimension and installation dimension diagram

2. Terminal, indicator and key description

BUS: 24V DC power interface, used to supply module circuit.

Type-C: USB interface, standard USB interface input, used to supply module circuit and parameter configuration.

Indicators:

1) Run green indicator: when the module runs normally, "Run" green indicator is normally on;

2) Data green indicator: when module sends data, "Data" green indicator flashes;

3) Alarm yellow indicator: when the module has a fault, "Alarm" yellow indicator is normally on.
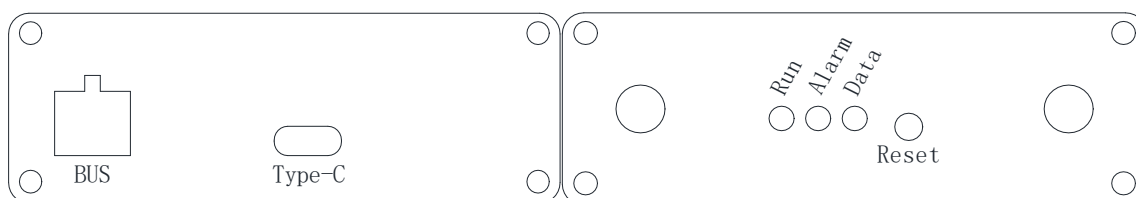
Keys:
Reset key: long press for 5S to reset.

Fig. 2 Terminal, indicator and key diagram

V. Installation and wiring

Warning: before installing, shut off power supply.

1. Before installing, first check if the housing is perfect and markings are complete.

2. The module can be wall-mounted.

VI. Application and operation

1. Add front-end equipment networking

1.1 Use USB data line with Type-C interface is used to connect the computer and module, open FosLink configuration software, pull down at the port number to select the port connecting the module, and click "Open" button to open the port.

1.2 In FosLink configuration software equipment information interface, click "Add" to go into equipment addition interface to add front-end equipment one by one or by batch.

Add one front-end equipment, input front-end equipment ID, define logic address according to requirements, without "Cont." and "Auto" ticked; tick "go to network after exiting", click "Confirm" to close equipment addition interface. Now the module goes into registering mode. Power on front-end equipment, complete networking in 1min. Front-end equipment indicates successful networking. The status of successful networking can be seen in FosLink configuration software register column.

When adding front-end equipment by batch, tick "Cont." and "Auto", then input front-end equipment ID continuously. Now, logic addresses can be automatically allocated or self-defined. After completing ID input, tick "go to network after exiting", click "Confirm" to close equipment addition interface. Now the module goes into registering mode. Power on front-end equipment, complete networking in 1min. Front-end equipment indicates successful networking. The status of successful networking can be seen in FosLink configuration software register column.

(Note: one module can be provided with 200 front-end equipment. Before adding equipment, logic address is unique and not repeated. One equipment has one logic address. Effective logic address is 1~200)

2. Delete front-end equipment

On FosLink configuration software, remove check box of equipment starting, click "issue" to delete front-end equipment from the module.

3. Reset

Long press the reset key for 5S to go into reset status and Run, Data and Alarm indicators are off; release reset key, Run, Data and Alarm are on for 3S, and restore normal working status.

VII. Handling and storage

The equipment shall be transported, handled and stored with package. Handle with care to prevent it from being damaged. Storage environment shall be ventilated, dry. Do not store it in the open air.

VIII. Notes

1. The person on duty shall grasp operating procedures of the module.

2. This module is a fire protection product. Follow duty system and shifting system strictly and make running records.

3. Make function test on the module every six months.

4. If the fault cannot be eliminated, please contact our agent or the manufacturer. Do not disassemble the product without permission.

IX. Contact

Thank you for selecting TX3231 Wireless Relay Module. Please keep in close contact, and we will provide timely and high quality service to you.