

# TXC3150

## Conventional Manual Call Point Installation and Operation Manual



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## 1. General

TXC3150 manual fire alarm button (hereinafter referred to as manual button) has a beautiful structure and wiring is easy and reliable. After fire is manually confirmed, press metal dome on manual button to send alarm signal to the controller. After the controller receives alarm signal, encoded information of manual button and installation position will be displayed and an alarm sounds.

## 2. Features

1. Hardware circuit is stable and reliable, which is not affected by electromagnetic interference.
2. After metal dome is pressed, a special key shall be used to reset it manually.
3. After metal dome is pressed, manual button provides separate output contact to control other external equipment directly.
4. Plug-type structure is installed easily and reliably.

## 3. Technical Parameters

1. Operating voltage: DC24V, 12-28V
2. Operating current:
  - 1) Normal current: 0mA
  - 2) Alarm current:  $\leq 30\text{mA}$
3. Output capacity: rated DC30V/0.1A passive output contact signal and contact resistance  $\leq 100\text{m}\Omega$
4. Type of starting parts: reusable
5. Start type: press metal dome manually
6. Reset type: a special key is used to reset it. After an alarm is sent, open key cover of manual button and insert the key to rotate by  $90^\circ$  to the right.
7. Status indicator: fire alarm indicator, red; in normal state, red indicator is off; but after alarming, it is normally on.
8. Wiring system: two-wire system, without polarity
9. Operating environment: indoors, temperature  $-20^\circ\text{C} \sim +55^\circ\text{C}$ , relative humidity  $\leq 95\%\text{RH}$ , without condensation
10. Housing material and color: ABS, red
11. Weight: about 172g
12. Outline dimension:  $95.0\text{mm} \times 95.0\text{mm} \times 46.0\text{mm}$  (with base)
13. Mounting hole pitch: 60mm
14. Conforming standard: EN54-11 Compliance

## 4. Structure features and operating principle:

### 4.1. Outline diagram of manual button as shown in Fig. 1.

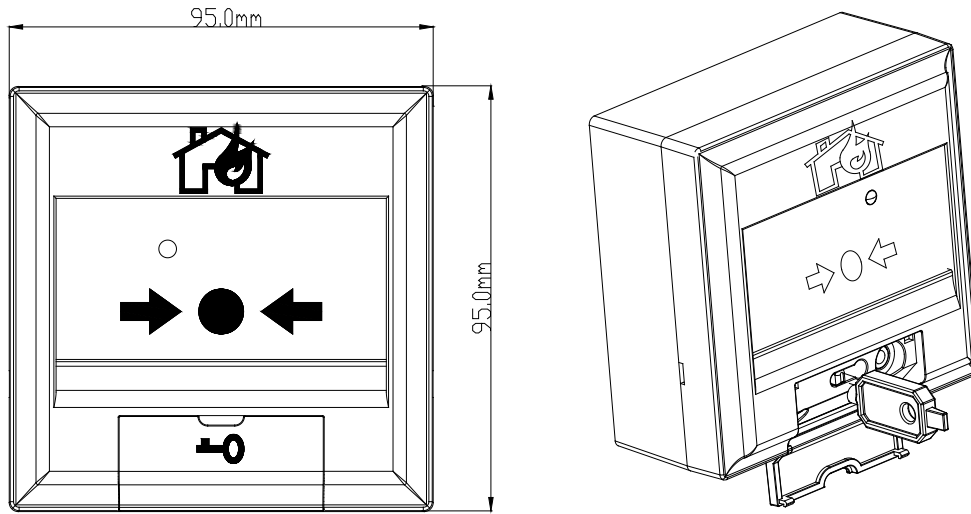


Fig. 1 Outline diagram of manual button

#### 4.2. Operating principle

This manual button adopts depressing alarm type. It is self-locked by mechanical structure to reduce triggering possibility by mistake. Press metal dome of manual button, red indicator of fire alarm is on. Fire alarm information is sent to the controller. The controller displays fire alarm information.

#### 5. Installation and wiring

**Warning:** before installation, cut off power supply of the circuit and confirm all bottom cases are reliably installed.

5.1 Installation method: Incoming line conduit of manual button adopts concealed installation (as shown in Fig. 2).

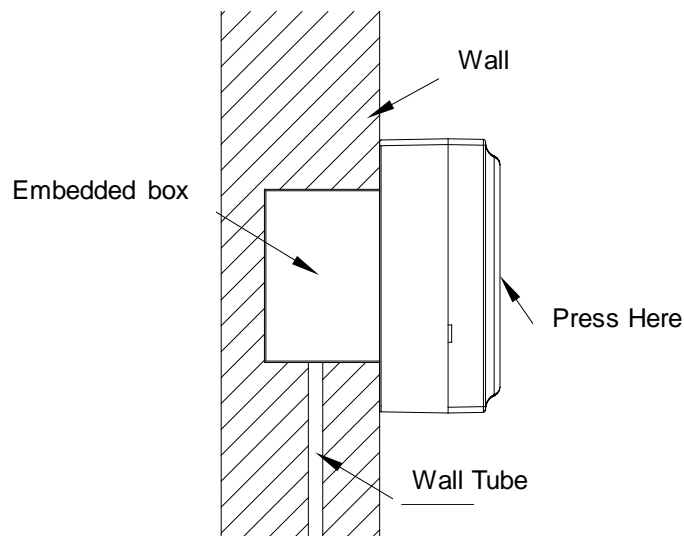


Fig. 2 Installation diagram of manual button

### 5.2 Removal method (as shown in Fig. 3)

Plug-in type is used between base and upper cover of this manual button. A special key is inserted to remove the base and upper cover of the manual button.

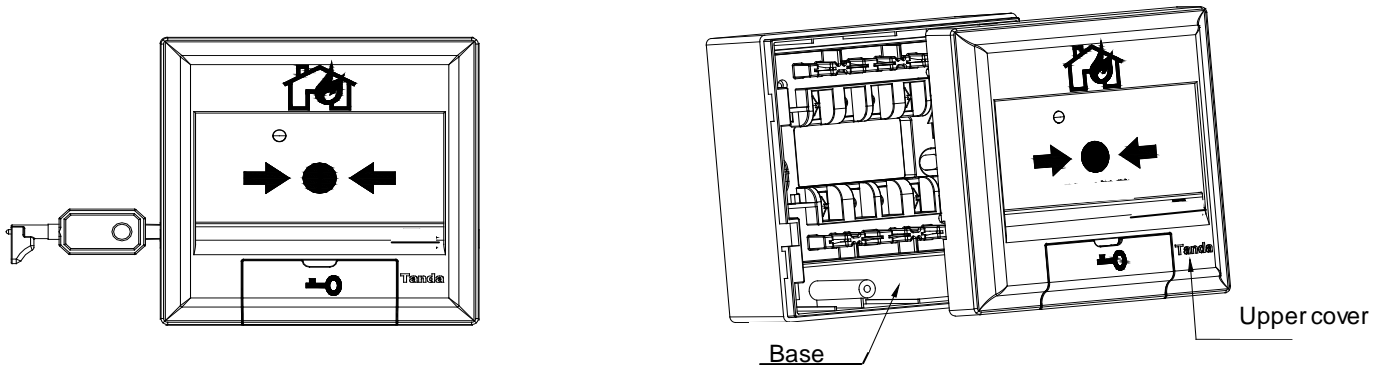


Fig. 3 Removing diagram of manual button

### 5.3 Terminal description (as shown in Fig. 4 )

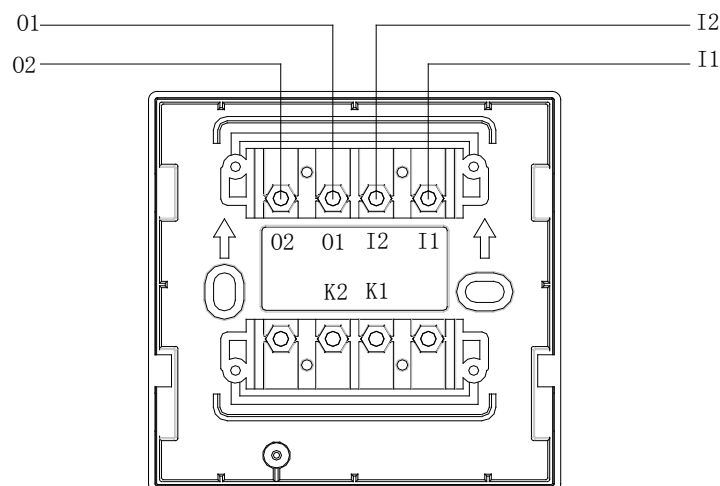


Fig. 4 Terminal description

I1 and I2: power supply input terminal, without polarity.

O1 and O2: cascade connection to the next equipment (no polarity) or connecting with 5.1K $\Omega$  terminal resistance.

K1 and K2: normally-on signal output terminal (rated capacity 30V/0.1A).

### 5.4 Wiring requirements:

In order to avoid wiring confusion, different colors shall be used for wiring; the connection between wire and manual button base terminal shall be sealed (without exposed copper wire).

Wiring method is as shown in Fig. 5. When wiring the base of manual button, do not tighten incoming

line and wire for cascading connection to the next base of manual button onto one terminal.

#### 5.5 Metal dome reset of manual button

After metal dome of this manual button is pressed, only a special reset key is used to reset it. If manual button is to be reset after action, first open reset hole cover and then insert the key into key hole and rotate it by 90° clockwise. Reset diagram as shown in Fig.5

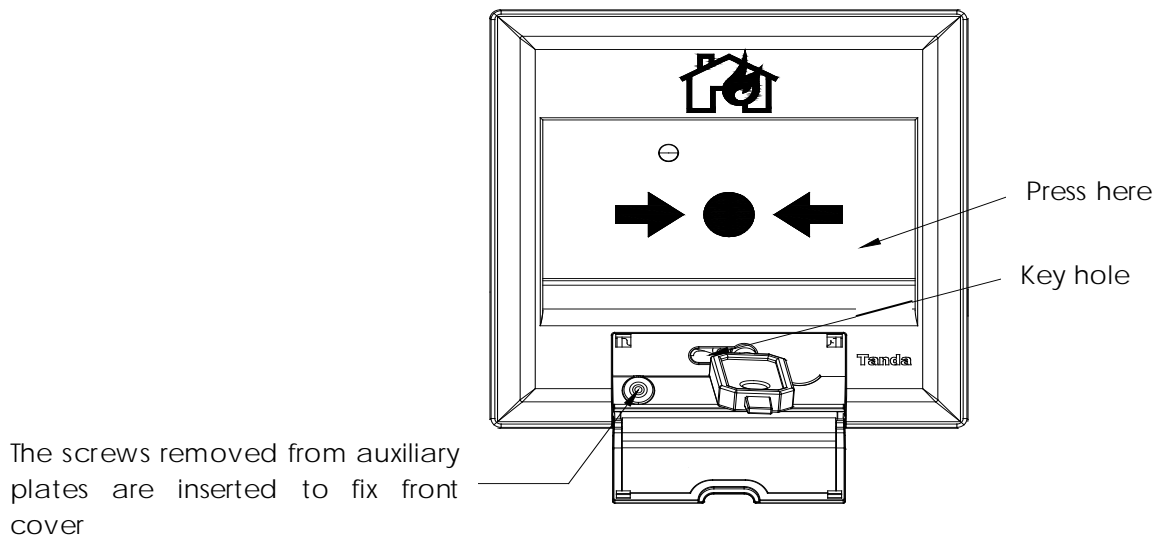


Fig. 5 Reset diagram of metal dome

#### 6. Testing

**Warning:** after all equipment is installed, power on.

1. Before manual button is tested, related management department shall be notified that the system will be maintained and the work will stop temporarily. At the same time logic control function of area or system to be maintained shall be cut off to avoid unnecessary alarm linkage.
2. Press metal dome of manual button. Red alarm indicator of manual button shall be on.
3. After testing is over, reset key is used to reset manual button and related management department is notified that the system restores normally.
4. During the course of test, check if wiring of unqualified manual button is normal. Then test it again. If it does not pass the test, it shall be returned for repair.

#### 7. Operation

This manual button is non-encoded type, and not required to make encode setting. It is used according to wiring type in Fig. 4.

#### 8 Transportation and storage

The equipment shall be packed for transportation, handling and storage. During the course of loading and unloading, handle with care to prevent from being damaged. Storage environment shall be ventilated and dry. Do not store it in open air.

#### 9. Notes

1. If manual button has a fault after it is used for a long time, first check if manual button is damaged or if installation position has not been changed, and then consider other faults of manual button.
2. This product is fire control product. Regulations for on-duty and duty shifting system shall be carried out. Running records shall be made.
3. Manual button shall be tested on alarm function once every six months.
4. A special reset tool of this manual button shall be kept and used by a special person. Our company will not be responsible for any loss caused by incorrect operation done by non-authorized person.
5. It is forbidden to wipe off manual button with dry cloth.