TXC7141

Conventional Manual Call Point
Installation and Operation Manual

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1. General

TXC7141 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 plastic dome on manual button to send alarm signal to the controller. After the controller receives alarm signal, the indicator in the corresponding area is on and an alarm sounds.

2. Features

1.Hardware circuit is stable and reliable, which is not affected by electromagnetic interference.
2.After plastic dome is pressed, a special key shall be used to reset it manually.
3.After plastic 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, 16-28V
2.Operating current:
1）Normal current: ≤30uA
2）Alarm current: ≤30mA
3.Output capacity: rated DC30V/0.1A passive output contact signal and contact resistance ≤100mΩ
4.Type of starting parts: reusable
5.Start type: press plastic 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° to the right.
7.Status indicator:
1）Fire alarm indicator, red; in normal state, red indicator is off; but after alarming,red indicator is on.
2）Work indicator ,red;red indicator is sparkle.
8.Wiring system: two-wire system, non-polarity
9.Operating environment: indoors, temperature -10℃～+55℃, relative humidity ≤95%RH, without condensation
10.Housing material and color: plastic, red
11.Weight: about 90g (with base)
12.Outline dimension: 90.0mm×90.0mm×34.0mm (with base)
13.Mounting hole pitch: 60mm

4. Structure features and operating principle:

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

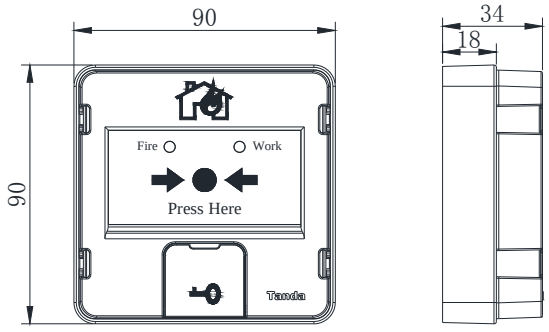

Fig. 1 Outline diagram of manual button

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TANDA DEVELOPMENT

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 plastic dome of manual button, red indicator of fire alarm is on. Fire alarm information is sent to the controller. The indicator in the corresponding area is on of the controller.

5. Installation and wiring

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

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

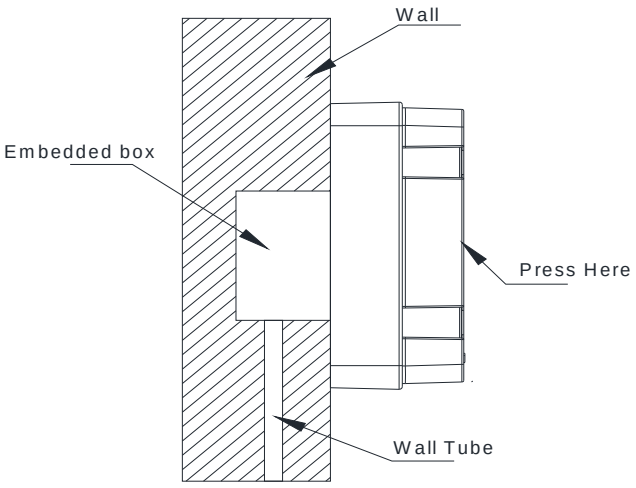

Fig. 2 Installation diagram of manual button

5.2Removal 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.

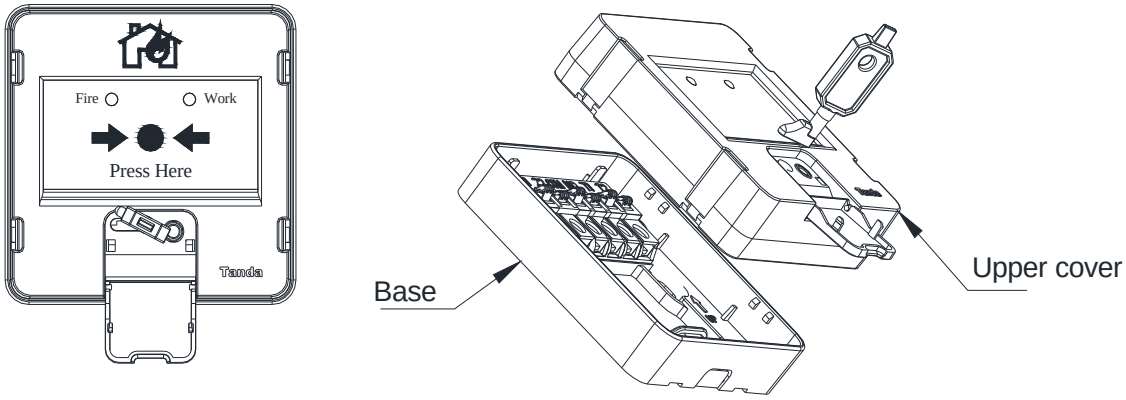

Fig. 3 Removing diagram of manual button

5.3Terminal description (as shown in Fig. 4)

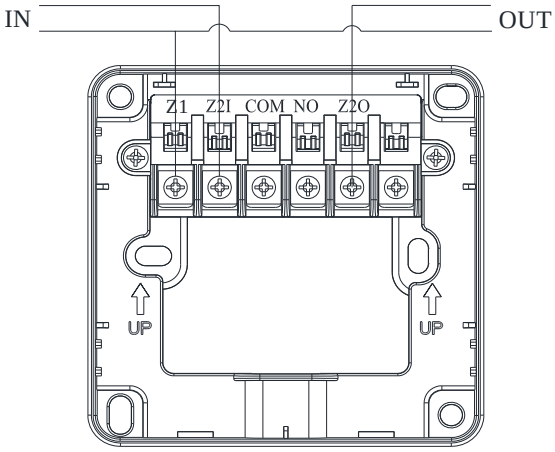

Fig. 4 Terminal description

Z1 and Z2I: power supply input terminal, non-polarity.

Z1 and Z2O: cascade connection to the next equipment (no polarity) or connecting with 5.1KΩ terminal resistance.

COM and NO: normally-on signal output terminal (rated capacity 30V/0.1A).

5.4Wiring 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).

5.5Plastic dome reset of manual button

After plastic 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

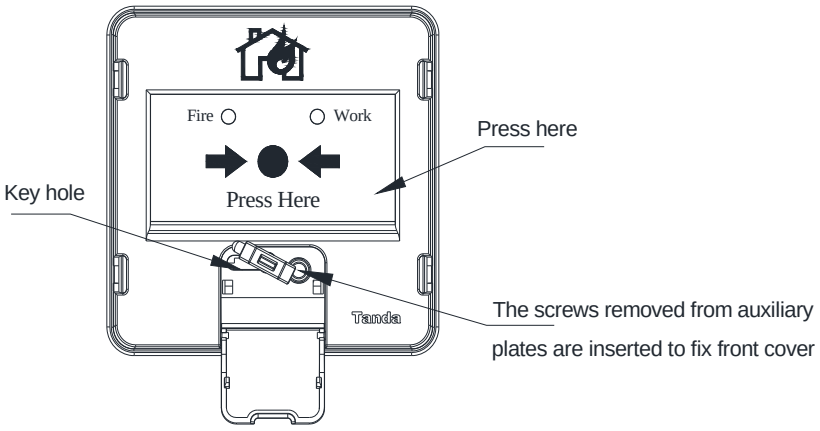

Fig. 5 Reset diagram of plastic dome

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 plastic 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 the manual button fails after being used for a long time, first check whether the manual cable installation is secure, and then consider whether the manual cable is damaged.
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.