J‑SAP‑M‑A62KE Manual Call Point

1 Product overview

1.1 SAP-M-A62KE manual call point (after this referred to as the manual alarm button) through the input module JK-A52E access Addressable Fire Alarm Control Panel, installed in public places, manual call point under monitoring status does not consume power. In case of fire alarm, the manual call point is pressed, and the alarm signal is transmitted to the input module, which is transmitted to the controller through the signal bus, and the controller will display input module's coded address and its working status, while the passive output contact is closed. The red fire alarm light will on in case of fire. Built-in fire telephone jack and fire telephone indicator light,easy for engineering application.
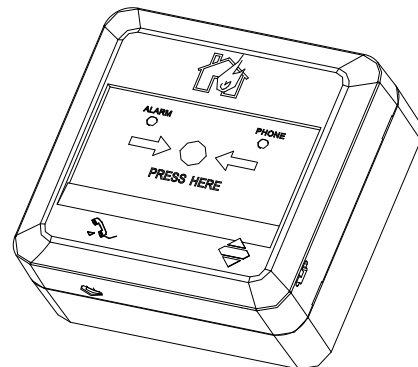
2 Product features

2.1 Adopt upper and lower cover structure design, easy to install,debug,and maintain.

2.2 With two-wire fire telephone jack, more suitable for engineering use.

2.3 The intelligent fire alarm controller can be connected to it through the input module and it can be used in parallel. The terminal load must be connected at the end.

2.4 It provides passive output contacts to control other external devices directly via an intermediate relay.

2.5 After pressed it will not be damaged and can be reused. Reset with a special tool.

3 Technical parameters

3.1

Items	Parameters
Executive standard	GB 19880-2005
Working current	Monitoring status: 0mA Action status: < 25mA (access JK-A52E input module)
Output contact	normally open contact, capacity 0.1A/30VDC
Weight	about 112g
Connection mode	two-wire system (TO+, TO-)
Use environment	indoor, temperature -10℃~ +55℃, relative humidity ≤95%(40℃±2℃no condensation)
Telephone jack	two-wire fire telephone jack (with a standard 6.3 mono audio plug)
Starting parts	reusable plastic press pieces, after starting can be manually reset with special tools
Starting mode	Manually press the button
Indicator light	Red fire alarm light, usually not bright, alarm often bright
Connection mode	The input module JK-A52E is used with the fire alarm control panel
Telephone indicator light shining when correctly connected to the normal working fire telephone system, otherwise not bright.	

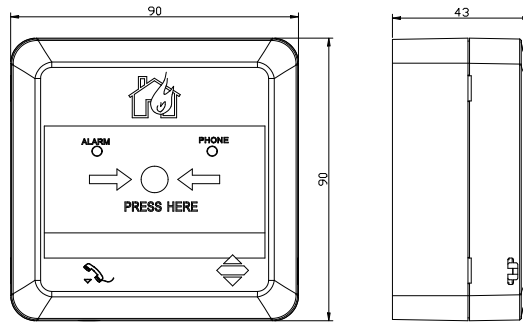## 4 Product appearance and size (see Fig.1)

4.1

Fig.1（Unit: mm)

5　Use and engineering application

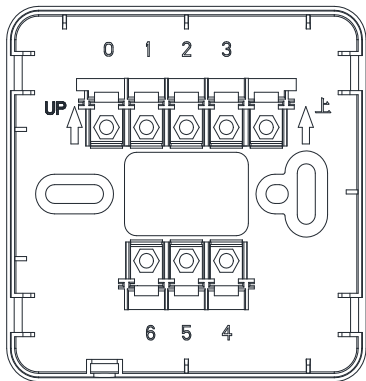**5.1**　Fig.2 shows the schematic diagram of the back cover terminal of the hand telegraph：

Fig.2

Terminal definition:

0 -- signal access terminal (1TO-)

1 -- Signal access terminal (2TO-)

2 -- Signal access terminal (TO+)

3 -- Normally open contact CON2 (closed with 4 ends during operation)

4 -- Normally open contact CON1 (closed with 3 ends during operation)

5 -- Fire telephone line terminal (TL2)

6 -- Fire telephone line terminal (TL1)

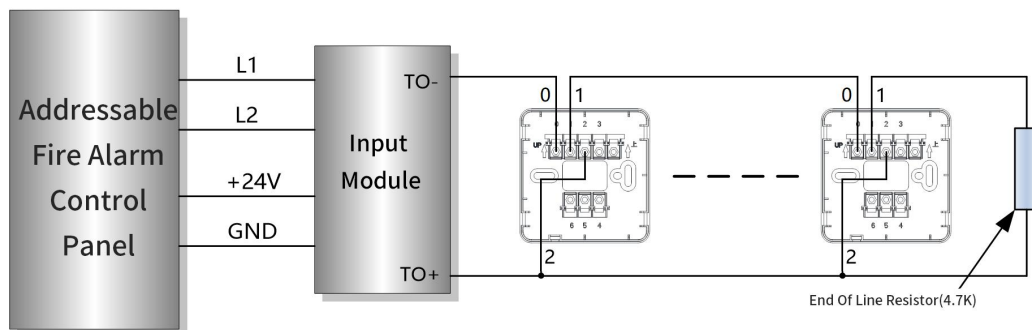**5.2**　The general use function and wiring diagram are shown in Fig.3：

Fig.3

5.3　The extended use function and wiring diagram are shown in Fig.4：
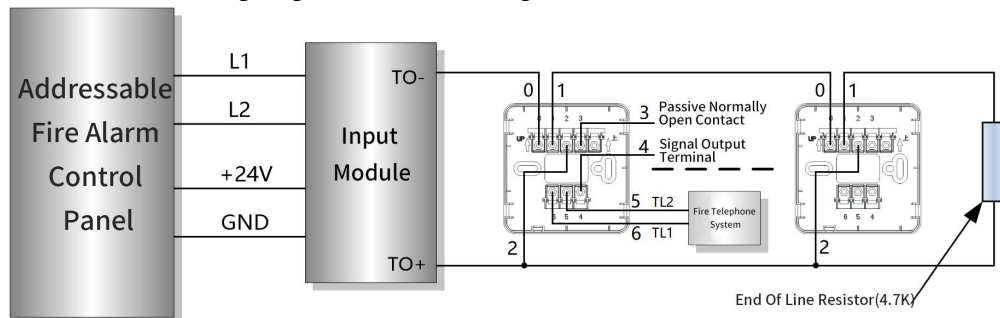

Fig.4

5.4　How to use：

Alarm: When there is a fire alarm manually confirmed, press the manual call point's panel (as shown in Fig.5), manual call point report the alarm and trigger the input module alarm at the same time, Normally open contacts 3 and 4 will be closed (as shown in Fig.4). After the manual call point alarm, the red fire alarm light will be on.
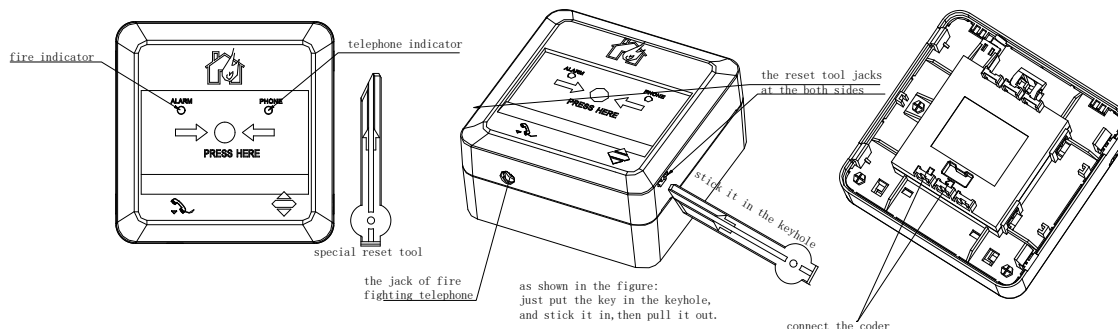
Fig.5

Restore: Insert the unlocking key through the keyhole of the shell (as shown in Fig.5), when the key get to the end, the switch panel restore the original state, then pull out the key from keyhole. At last, Reset the fire alarm controller, the input module and manual alarm return to normal monitoring status.

Fire telephone: As shown in Fig.5, insert the plug of the handheld fire telephone into the jack of the fire telephone, then the fire telephone can communicate.

6   Installation and commissioning

6.1   The installation position, installation gap and quantity of hand signals shall be determined according to the relevant provisions and requirements in the national standard GB 50116-2013 "Code for Design of Automatic Fire Alarm System" and GB 50166-2019 "Standard for Construction and Acceptance of Automatic Fire Alarm System".

The installation of the manual call point requires a matching base. The supporting base is shown in Fig.6. The dimensions of the base are 90mm x 90mm x 27mm (L x W x H), the diameter of fixed holes is Ø4.5mm, and the spacing of fixed holes is 45mm to 63mm. The pipe inlet wires are routed through the lower part of the base.
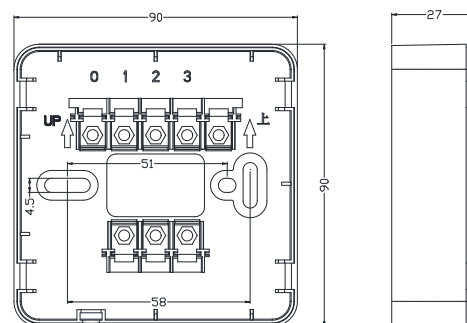

Fig.6

Wiring requirements: The signal cable should be RVS type cable, and the cross-sectional area should be $\geq 1.0mm^2$.

6.2   **The installation and commissioning methods are as follows:**

a.   According to the construction drawings, use two M4 screws to fix the base to the specified position through the fixing holes shown in Fig.6 (there should be no shielding at least 20cm on one side of the resetting hole), and ensure that the base is installed firmly.

b.   Confirm the manual call point type matches the host type.

c.   Cut off the power supply of the controller; connect the manual call point correctly, according to the construction drawings.

d.   Fasten the cover of the manual call point into the mating base so that the top cover is closely connected with the base;

e.   After all products are installed and confirmed, switch on the controller power supply;

f.   Follow the instruction of manual call point(see V.4) carry out normal alarm and recovery test, and connect the fire telephone test call.

7   Precautions ⚠

7.1   To ensure the manual call point can be reset with the reset key, reserve at least 20cm gap between the reset hole and the wall.

7.2 The installation of manual call point shall comply with the provisions of the national standard GB 50116-2013 "Design Code for Automatic Fire Alarm System" and GB 50166-2019 "Construction and Acceptance Standard for Automatic Fire Alarm System".

8   Maintenance

8.1 ⚠Warning: Before manual call point performing maintenance, It Should inform the relevant management department that the system will be maintained and stop working temporarily. At the same time,   the area that will be maintained should be cut off and the logical control function of the system to avoid unnecessary alarm linkage. After the test finished, use the reset tool to reset the manual call point and notify management that the system is back to normal.

8.2 Test by hand at least once every six months; It is recommended to maintain the installed manual call point every two years.

8.3 Press the alarm button, the red fire alarm light of the alarm button should be lit, and the controller should display the module address corresponding to the manual alarm.

8.4 Within the warranty period stipulated in the contract, if the manual call point is used normally according to the regulations and defects result from materials or manufacturing process, Our company will be responsible for free repair or replacement. If the manual call point is failure due to artificial damage, improper use or self-adjustment, modification or disassembly, it is not covered by warranty, Our company will not be responsible for all consequences caused of it.

8.5 Our company is responsible for the paid maintenance of products not covered by warranty, if there is a need for repairing, please contact us. At the same time, we willing to get some important information about the product you want to repair, such as the situation of product failure and possible reasons, so that we can find the problem in the shortest time, and provide reference for our future product development and improvement.

9   Fault analysis and trouble shooting

9.1

Fault phenomenon	Cause analysis	Elimination method	Remarks
Test no alarm	The TO-,TO+ signal cable is in poor contact	Check the line re-connection	
	Key switch damaged	Need to return to the manufacturer for repair	
	Internal circuit failure	Need to return to the manufacturer for repair	
The fire alarm light is not on	Internal circuit failure	Need to return to the manufacturer for repair	
	Indicator light problem	Need to return to the manufacturer for repair	

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