

Please read this Manual carefully before installing and using the product .

C9092T Conventional Sounder Beacon

1 Product overview

- (1) C9092T Conventional Sounder Beacon is a product that is used in conjunction with the Conventional fire alarm controller produced by our company. The Sounder Beacon is controlled by microprocessor. When an accident occurs, the ordinary sound and light circuit connected to the Sounder Beacon will have a voltage output, making the sound and light alarm emit dazzling flash signals and ear-splitting sound alarm signals, reminding the personnel on the spot to quickly understand that a fire has occurred on the spot and take measures to evacuate as soon as possible to avoid major accidents. Pressing the "reset" button on the controller can make the Sounder Beacon return to the normal state.



- (2) The Sounder Beacon may be used to give audible alarms at the scenes of accidents. It is applicable to places like high-rise residential buildings, public places, hotels, amusement buildings, factories, shopping centers, hospitals, schools, office buildings and stock exchanges, and particularly to the places with a low visibility or the possibility of generation of smoke.

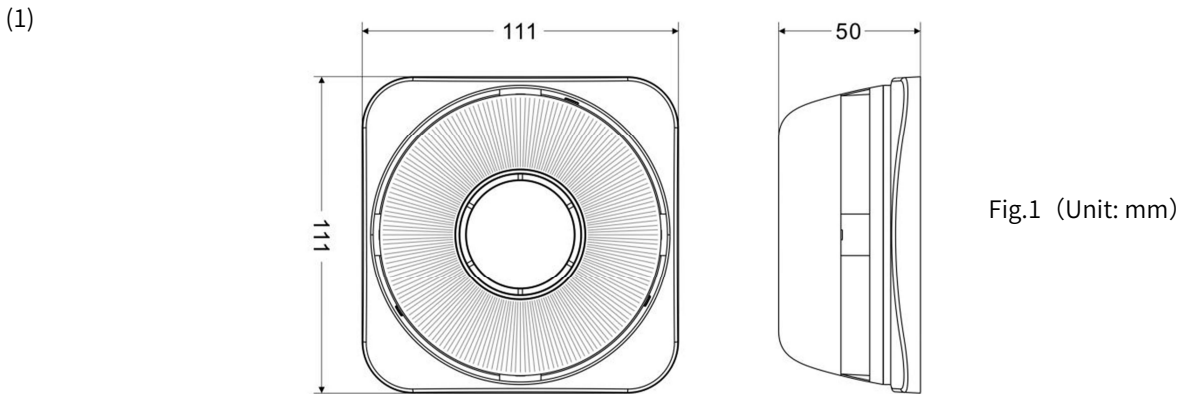
2 Product features

- (1) Choice of up to 7 tone modes.
- (2) Adopting independent base, it is simple and convenient for installation, commissioning and maintenance.
- (3) The light display adopts multiple ultra-high brightness light-emitting diodes as the light source, with eye-catching display, long life and low power consumption.
- (4) Tamper-evident function is possible.

3 Technical parameters

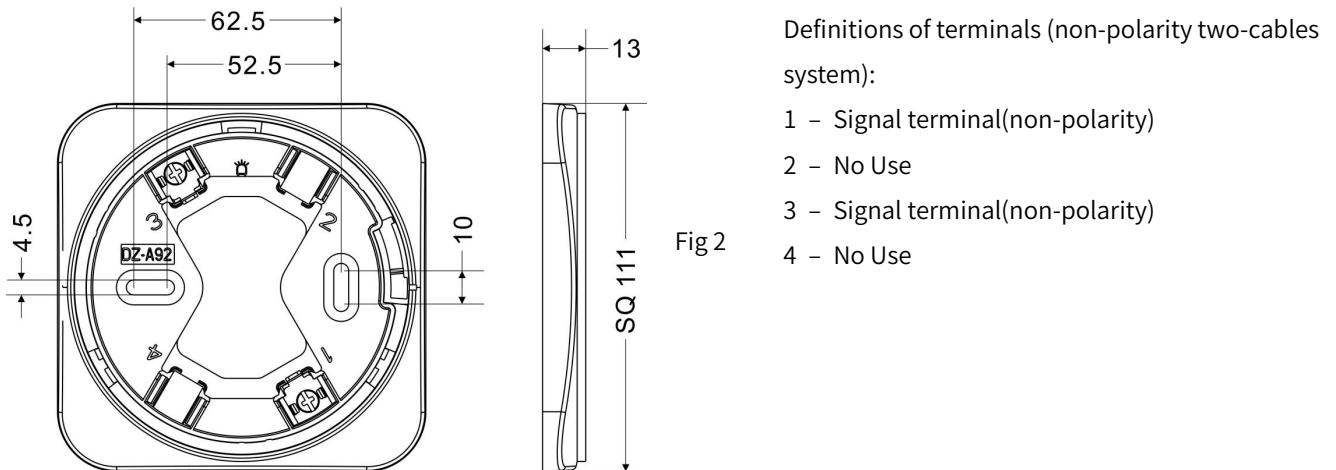
(1)	Item	Parameters
	Executive standard:	EN 54-3 (Type A)
	Working voltage:	DC24V (allowance: DC20V ~ 28V)
	Power consumption	≤0.2W@DC24V
	Working current:	Alarm current: 1mA~8mA @ DC 24V
	Wiring method:	non-polarity, two cables
	Operating environment:	Indoor, temperature: -10°C~+55°C; Relative humidity: ≤95% (40°C±2°C, without condensation)
	Flash Rate	1~1.5Hz
	Maximum sound output:	≥95dB(A)@1m(Tone1@90°)
	Tone type	7 User-Selectable Tones (EN54-3 approved for tone1 Only)
	Installation	Ceiling
	Material Lens/Body	Flame retardant PC/ABS
	Weight:	about 130g with base
	Ingress Protection Rating:	IP21C
	Overall dimensions:	111×111×50 (mm) (with base)

4 Appearance and dimensions



5 Use and engineering application

(1) Base Installation Diagram



(2) Wiring mode 1: the Sounder Beacon is connected to the Conventional fire alarm controller circuit wiring diagram:

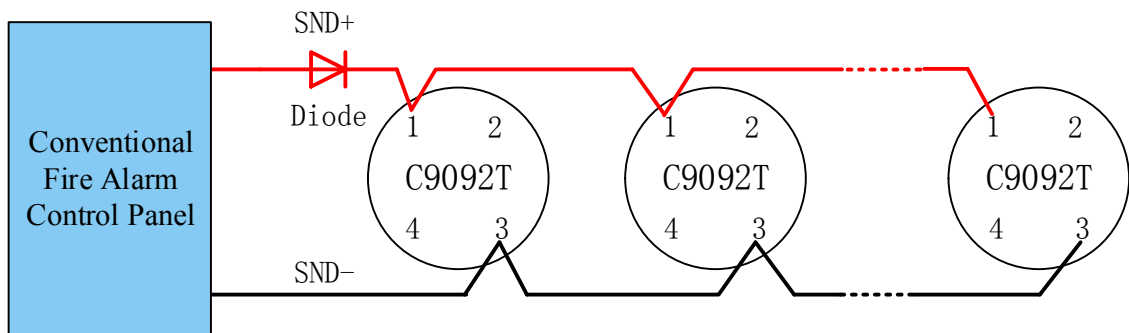


Fig.3

(3) Wiring method 2: Wiring diagram of Sounder Beacon connected through an output module to a device capable of providing 24V power (e.g. fire alarm controller):

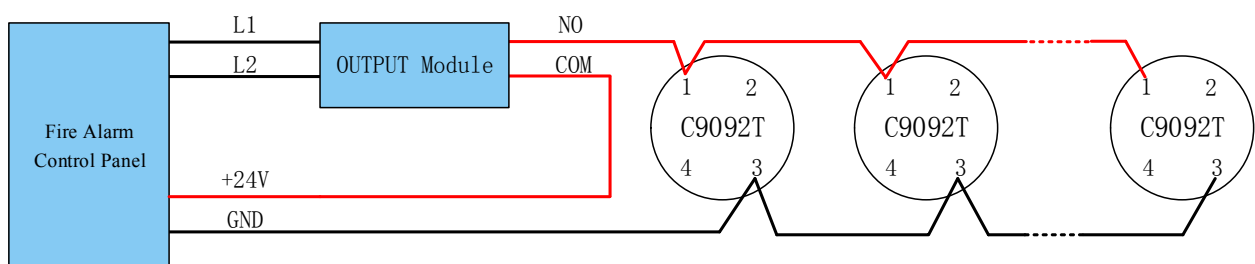


Fig.4

- (4) Tone mode setting: the tone mode of the Sounder Beacon is set by the coder, the wiring method is as shown in Fig. 5, Select “Coder” →” ModeSetting” ,Entering the mode coding interface, the interface setting is as shown in Fig. 6, and according to the following table, select the corresponding mode code to set the desired tone mode, press the "OK" to complete the tone coding setting.

(Note: Defaults to Tone 1;Please refer to the coder manual for detailed operation)

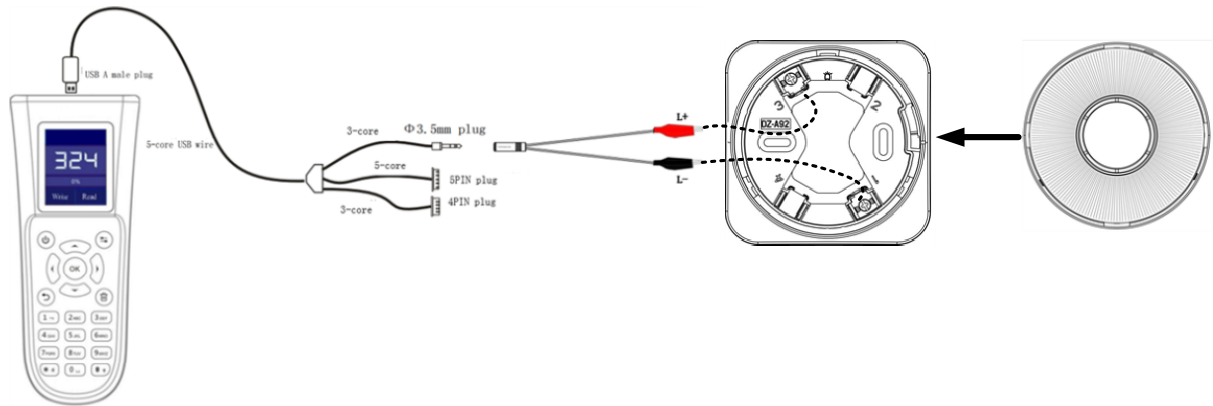


Fig.5

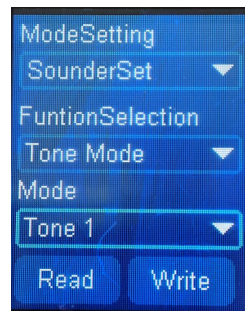


Fig.6

Mode Setting	Function Selection	Mode	Tone Description
Sounder Set	Tone Mode	Tone1	Sweep 667Hz-2200Hz@0.21Hz (Default)
		Tone2	970Hz 0.5s on/0.5s off
		Tone3	Sweep 800Hz-970Hz@1Hz
		Tone4	970Hz Continue
		Tone5	(Swedish)660Hz 150ms on/ 150ms off
		Tone6	(NZ)500Hz - 1200Hz,3.5s on /0.5s off
		Tone7	Sweep 2400Hz-2850Hz@1Hz

6 Installation and debugging

- The installation of the Sounder Beacon requires the use of matching base. Supporting base as shown in Figure 2,The outer size is 111mm×13mm (side length×thickness), the diameter of the fixing hole is Φ4.5mm, and the spacing of the fixing hole is 52.5mm~62.5mm.
- Wiring requirement: It is advisable to use RVS twisted pair with a cross-sectional area of $\geq 1.0 \text{ mm}^2$.
- Installation and commissioning steps**
 - Fix the matching base in the specified position according to the construction drawings using 2 x M4 screws through the mounting fixing holes shown in Figure 2 and should confirm that the base is securely fitted;
 - Cut off the controller working power, according to the construction drawings, firstly connect all the bases correctly in the way of figure 3;
 - Use the coder to set the desired tone mode on the Sounder Beacon before plugging it into the base;

- After all Sounder Beacon have been installed and verified to be correct, power on the controller;
- The Sounder Beacon emits an alarm signal after voltage is output from the S.C.OUT according to the Control panel.
When the system is reset, the Sounder Beacon will stop outputting alarm signals.

7 Caveat

- (1) when connected to the S.C.OUT circuit of the Conventional Fire Alarm Control Panel, A diode must be connected in series with the positive terminal of the S.C.OUT circuit.
- (2) Please note the terminal markings when installing and wiring.
- (3) When installing the Sounder Beacon, please note that there should be no objects in front of the siren that can block the flashing light or obstruct the sound.

8 Maintenance

- (1) Sounder Beacon are tested at least once a year.
- (2) Within the contractual warranty period, the company will be responsible for the free repair or replacement of the Sounder Beacon that have been used normally according to the specified requirements, if they fail due to defects in materials or manufacturing processes. If the sound and light alarm fails due to human damage, improper use or self-adjustment, alteration or disassembly, it is not covered by the warranty, and the Company will not be responsible for any adverse consequences caused as a result.
- (3) We may provide paid repair service for products with any faults beyond the guarantee range. If you have such products that need repair, please contact us. When sending such a product to us for repair, you are expected to provide some important information about the product, such as the phenomenon and possible cause of the product fault, so that we can find out the cause of the fault in the shortest time and so the information may be used as a reference in our future product development and improvement.

9 Fault analysis and troubleshooting

(1)	Failures	Causes	Methods	Remarks
	No flash or Sound alarm signal	wiring error	Check for correct wiring	
		Internal circuit is broken	Return to the manufacturer for repairs	

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