

A9097B Intelligent Sounder Beacon Base

Read through these instructions before using this device to ensure correct installation and use!

I. Overview



A9097B Intelligent Sounder Beacon Base is addressable, low power consumption and loop powered to reduce installation cost. The Intelligent Sounder Beacon Base can be used with a detector. The detector can be mounted directly on the base.

It can be used with a bus-type fire alarm control panel. After receiving a start command given by the fire alarm control panel following an accident, the Sounder Beacon Base will begin to work. At this moment, the Sounder Beacon Base will give a dazzling visual alarm signal and a harsh audible alarm signal, to remind the persons on the scene of the accident, the fact that a fire has occurred on the site, quickly and necessity to take related evacuation measures, thus preventing the fire accident from becoming a major one.

The Sounder Beacon Base may be used to give audible alarms and flashing 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.

II. Product features

- Meet EN54-3.
- It is installed by rotating, it can be installed conveniently and reliably.
- It uses multiple super bright red LEDs as light sources for visual display, ensuring a striking display effect.
- Set the detector base and Sounder beacon as a whole, it can be equipped with A9030T smoke detector and A9020T heat detector, single point connection for detector, sounder and LED beacon (saving on both time and installation costs), debugged and maintained conveniently.

III. Technical Specification

1. Executive Standard: EN54-3 Type A Sounder
2. Loop input: DC24V(20-28V), ≤2mA(monitored status), ≤8mA(Alarm status)
3. Power consumption: ≤0.2W@DC24V
4. Sound output: ≥73dB(A)@1m
5. Flash rate: 1~2Hz
6. Flash color: RED
7. Protection class: IP21C
8. Operating temperature: -10°C~+55°C Relative Humidity: ≤95% (non-condensing)
9. Material Body: Flame retardant PC/PC+ABS
10. Dimension: φ115mm×H44mm (with bracket), See Fig.1
11. Weight: about 169g

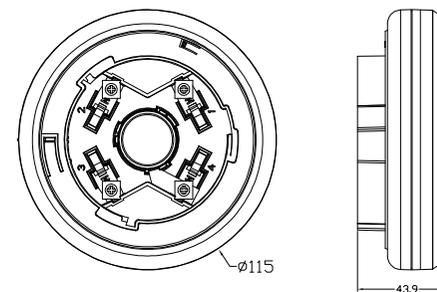


Fig.1

IV. Use and engineering application

1. Wiring: See Fig.2. The Sounder Beacon Base is subject to a two-wire non-polarity connection: Terminals 1 and 3 are respectively connected with the terminals L1 and L2 of the loop bus of a compatible fire alarm control panel. Terminals 2 and 4 are respectively connected with the terminals 2 and 4 of A9020T(Heat Detector) or A9030T(Smoke Detector).

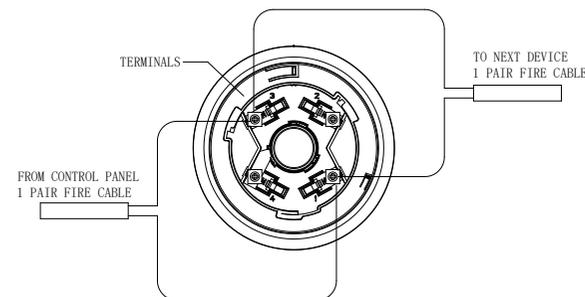


Fig.2

2. Coding address: The Sounder Beacon Base must be encoded address by a special coder (CODER-F900E) before the installation. Fig.3 shows the wiring diagram of the Sounder Beacon Base and coder. After wiring, press the “#” key to select “324” mode, set the coder with the coding function, then select the correct address number and press the “RUN/STOP” key to complete the address code setup. (Note: See the User’s Manual of the coder for the detailed operation.)

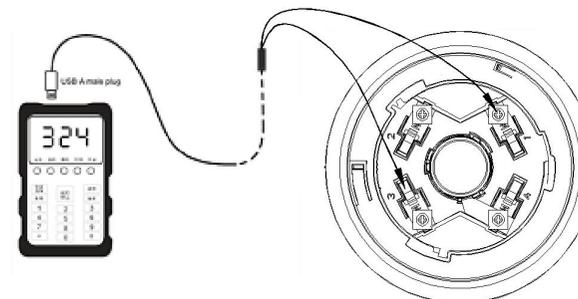


Fig.3

3. Mode coding: The mode of the Sounder Beacon base can be set by the coder. The wiring method of setting mode is the same as the address coding. After wiring, press the "#" key to select "99A" mode, set the coder with the coding function, then select the corresponding code in the following table and press the "RUN/STOP" key to complete the mode setup. (Note: See the User's Manual of the coder for the detailed operation.)

Mode Table	
Mode	Code
Sounder&Beacon	01
Sounder	02

4. Application: Fig.4 is a schematic diagram of the connection between multiple Sounder Beacon Base with a fire alarm control panel.

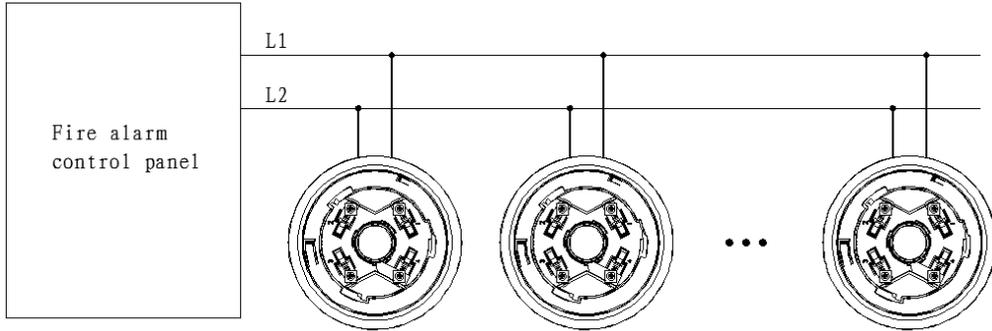
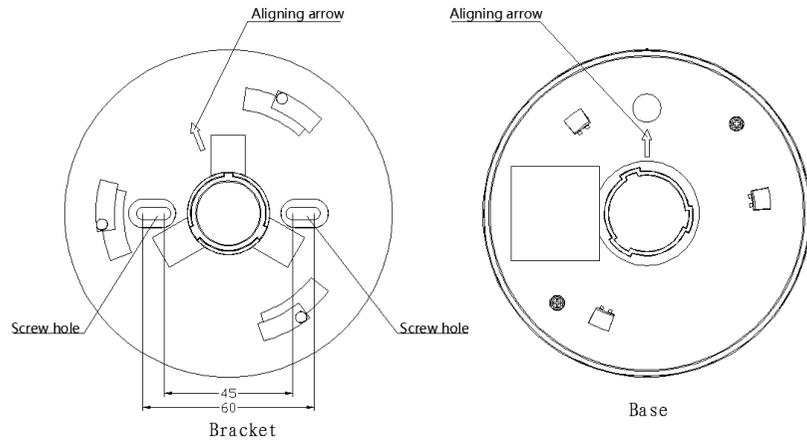


Fig.4

V. Installation



Definitions of terminals (non-polarity Two-wire system) 1->Loop terminal (L1/L2) 3->Loop terminal (L2/L1)

Fig.5 Base and wiring diagram

1. Use two M4 screws to fix the A9097B bracket to ceiling via the two elliptic screw holes (see Fig.5).
2. Twist the base onto the bracket (pay attention to aligning two arrow).
3. Connect the bus cables with the terminal 1&3.
4. If the Sounder Beacon Base is required to be tamper-proof, fix it with cross recessed pan head screws M3×9 through tamper-proof hole, and the detector is prevented from disassembly by structural changes (see Fig 6).

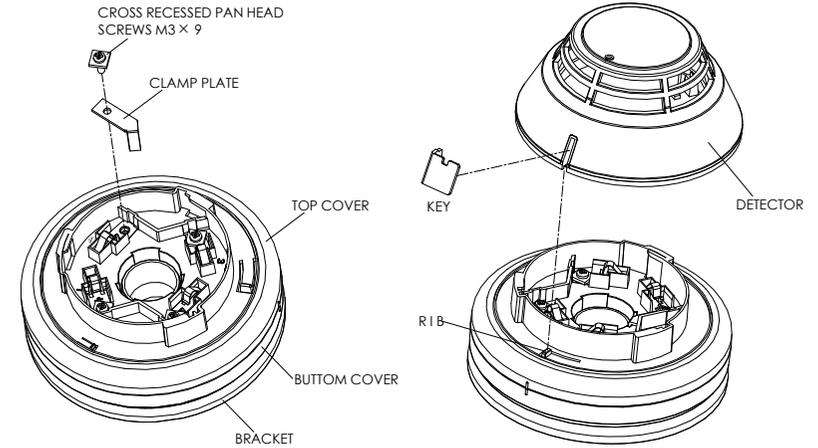


Fig.6

VI. Sound Level Data (EN54-3 approved)

Tone: 667Hz-2000Hz@0.21Hz, Max Volume, dB(A)@1m

Angle	Horizontal		Vertical	
	20V	28V	20V	28V
Voltage	82.0	85.0	82.7	85.4
15°	82.0	85.0	82.7	85.4
45°	80.0	83.5	81.8	84.7
75°	82.1	85.3	80.2	83.3
105°	83.0	85.3	84.6	87.4
135°	83.0	85.9	81.2	83.7
165°	83.2	86.0	81.9	84.7

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