FIREGUARD GLOBAL LTD

ADDRESSABLE SOUNDER BEACON

IQ321S

DESCRIPTION

IQ321S Intelligent Sounder Beacon can be audible after being connected to a bus loop. 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 will begin to work. At this moment, the Sounder Beacon will give a harsh audible alarm signal, to remind the people 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.

FEATURES

- Meet both EN54-3 and EN54-23.
- Designed with an upper cover and a lower cover and installed on an independent base, it can be installed, debugged and maintained conveniently.
- Suitable for wall and ceiling mount application.
- Providing 16 tones.
- Highly efficient LED technology and specially designed lens.
- Light output synchronization.
- This can be used in 3 modes- Sounder Only, Flasher Only and Sounder/Flasher Mode

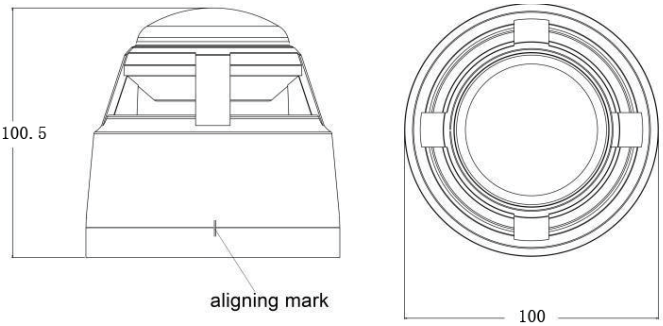

Fig .1 Appearance and Dimension unit: mm

TECHNICAL PARAMETERS

Executive Standard	EN54-3/EN54-23 Type A indoor
Operating voltage	DC24V(18-28V)
Operating Current	≤100mA@DC24V
Sound Output	≥75dB(A)@1m(Tone1).
Number of tones	16
EN54-23 coverage	C-3-8/W-2.4-6
Flash rate	0.5Hz
Flash color	White
Light output synchronization	Meets EN54-23
Protection class	IP21C
Operating temperature	-10°C~+55°C Relative, Humanity: ≤95% (non-condensing)
Material Lens/Body	Flame retardant PC/ABS
Dimension	ø100mm×100.5mm(with base),SeeFig1.
Weight	About 266g

USE AND ENGINEERING APPLICATION

The tone of the sounder beacon can be set by the 4-way DIP switch, which is at the back of the main body (see Fig .2) Fore more detail, please refer to the Tone Table.

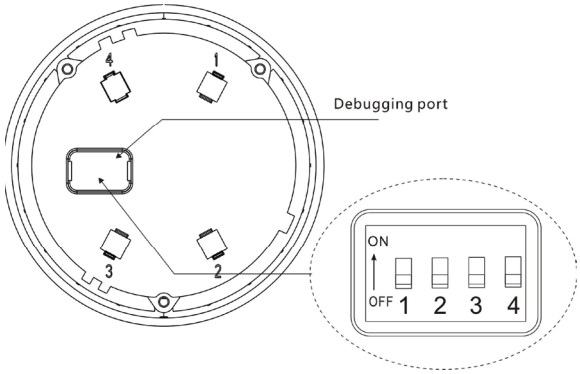

Fig .2

TONE TABLE		
Tone	Switch	Description
1	0,0,0,0	667Hz-2000Hz@0.22Hz
2	1,0,0,0	970Hz
3	0,1,0,0	800Hz/970Hz@2Hz
4	1,1,0,0	800Hz-970Hz@1Hz
5	0,0,1,0	970Hz 1s off/ 1s on
6	1,0,1,0	970Hz 0.5s/ 630Hz,0.5s
7	0,1,1,0	500Hz-1200Hz×3,3.5s on/0.5s off
8	1,1,1,0	2840Hz,0.5s on/0.5s off×3/1.5s off
9	0,0,0,1	2840Hz,0.4s on,0.3s off
10	1,0,0,1	550Hz,0.7s/1000Hz,0.33s
11	0,1,0,1	1500Hz-2700Hz@3Hz
12	1,1,0,1	2400Hz
13	0,0,1,1	500Hz~1200Hz@0.33Hz
14	1,0,1,1	2400Hz-2900Hz@9Hz
15	0,1,1,1	2400Hz-2900Hz@3Hz
16	1,1,1,1	500Hz-1200Hz,3.75s on/0.25s off

Note:e.g. “1,0,0,0” means “Switch 1 is ON, Switch 2~4 are OFF”

INSTALLATION AND DEBUGGING

1.

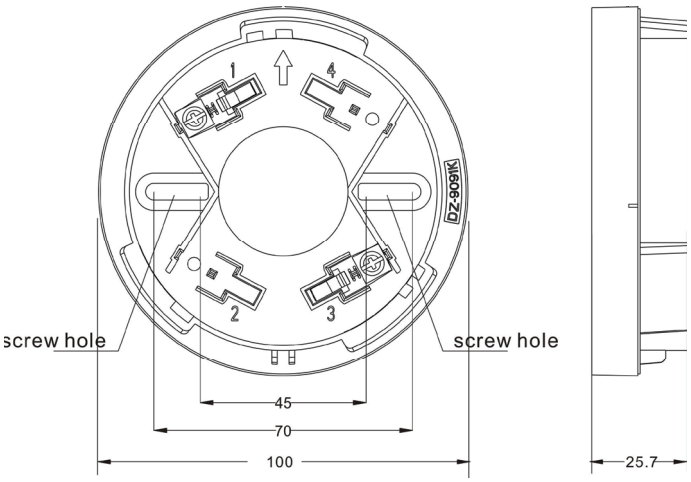

Fig .3 Base and wiring diagram

Definitions of terminals(non-polarity Four-wire system)
1->Power(0V/+24V)
3->Power(+24V/0V)

2. Use two M4 screws to fix the IQ331SB base via the two elliptic screw holes (see Fig .3), then connect the power cables with the terminal 1&3 (1 connected with positive, and 3 with negative 1.5mm 2 or above fire cable for the power inputs is recommended.), finally twist the main body onto the base.

3. If the Sounder Beacon is required to be tamper-proof, fix it with ST2.9x5 self-tapping screws thought the tamper-proof hole (see Fig .4) on the base.

4.

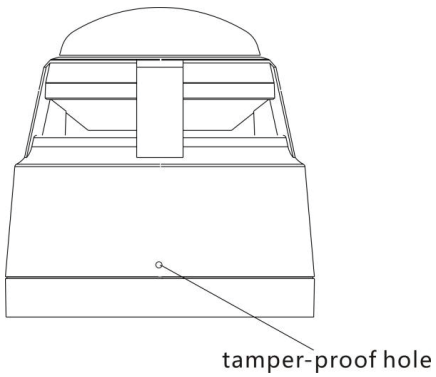

Fig .4

SOUND LEVEL DATA (EN54-3 APPROVED)

TONE: 667Hz-2000Hz@0.22Hz, Max Volume, dB(A)@1m

Angel	Horizontal		Vertical	
Voltage	20V	28V	20V	28V
15°	77.5	81	78.1	81.4
45°	77.9	81.1	78.4	81.7
75°	84.4	88.1	84.8	88.6
105°	84.6	87.7	84.7	87.9
135°	77.3	80.4	76.6	80
165°	77.9	81.3	77.5	81.5

COVERAGE VOLUME (EN54-23 APPROVED)

1.

C-3-8		
X	Z	V(m3)
8m	3m	150.8

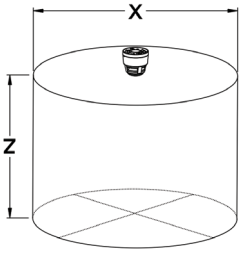

Fig .5 Ceiling mount coverage volume

2.

W-2.4-6			
X	Y	Z	V(m3)
6m	6m	2.4m	86.4

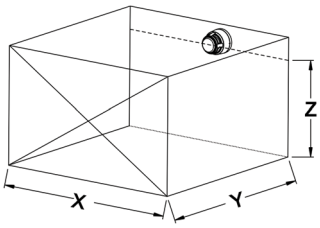

Fig .6 Wall mount coverage volume