

I-9403 Intelligent Sounder Strobe

Features

- ♦ Providing 16 tones.
- Using ultra bright LEDs as source for light indication. Optional transparent colorless lens (C-94WL) available.
- Loop powered or external 24V powered.
- Power-saving consumption mode and normal consumption mode (factory default).
- Single/dual address programmable.
- Working modes: sounder & strobe / strobe only / sounder only.
- ♦ Standard: EN 54-3.

Description

I-9403 Intelligent Sounder Strobe is an audible and visual alarm device installed in field, which can be activated by fire alarm control panel in fire control center. After activated, it will generate strong audible and visual alarm signal to warn people in field.

A 25.5mm high shallow base and a 40mm high deep base are available. The sounder strobe comes with the shallow base. The deep base C-94DB should be ordered separately. Unless otherwise stated, all descriptions in this manual take the shallow base as example.

Connection & Cabling

Terminals on the base are shown in Fig. 2.

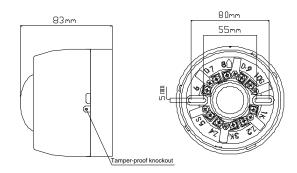


Fig. 1

Fig. 2

Z1 (2), Z2 (4): Loop of the control panel, polarity-insensitive.

D1 (9), D2 (7): To external 24VDC power, polarity-insensitive.

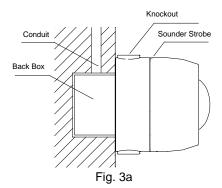
Recommended Wiring

1.5mm² or above fire cable for D1, D2, Z1 and Z2, subject to local codes.

Installation

- When surface mounted, the sounder strobe should be placed 0.2m from the ceiling for normal space height. When the conduit is embedded, the base can be mounted on the back box. When the conduit is surface mounted, the deep base should be adopted. Knock the knockout hole, and connect the conduit with it. The mounting hole spacing and mounting direction are shown in Fig. 2. Mounting method is shown in Fig. 3a and Fig. 4. The conduit must be embedded when the shallow base is used, as shown in Fig. 3b.
- The base and the sounder strobe are twisted together. When mounting, remove the sounder strobe, thread cables through the cable entry in the base and connect with corresponding terminals, then twist the sounder strobe onto the base.





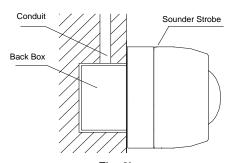


Fig. 3b

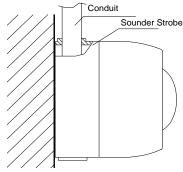


Fig. 4

→ If the sounder strobe is required to be tamper-proof, knock down the arch knockout as shown in Fig. 1 and fix it with ST2.9×6.5 self-tapping screws (in this case, it can only be removed by a cross screwdriver).

Application

Address, tone, programming method, working mode, consumption mode can be set through P-9910B programmer.

- Working mode can be set with the same method as programming device type by the programmer, refer to P-9910B Installation and Operation Manual for details.
 - Sounder and strobe (default): 24;
 - Sounder only: 20;
 - Strobe only: 21.
- In single address mode, the sounder strobe will sound the preset tone (refer to Table 1) with flash frequency 1.4× (1±20%) Hz when activated.
- ♦ In dual addresses mode,
 - The sounder strobe will sound the pre-alarm tone (refer to Table 1) with flash frequency 0.7× (1±20%) Hz when activating the first address;
 - The sounder strobe will sound a preset tone (refer to Table 1) with flash frequency 1.4× (1±20%) Hz when activating the second address;
 - The sounder strobe will sound the preset tone (refer to Table 1) with flash frequency 1.4× (1±20%) Hz when activating the first and second address together.
- ♦ Wiring diagram
 - > Fig.5 shows that the sounder strobe is loop-powered.

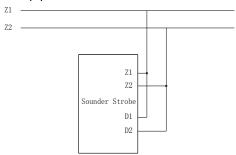


Fig. 5

Fig. 6 shows that the sounder strobe is supplied by an external 24V power.

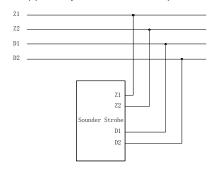


Fig. 6

Below is an example showing how to set the sounder strobe addressed 25 as dual addresses, tone 15 and normal consumption mode.

Switch on the P-9910B programmer, input the password and press the *Function* key and number 3. Enter 63 and the *Program* key. The setting is successful when P appears on the display. The sounder strobe is now to be programmed Address No. 25 and 26.

Table 1 shows tone mode, programming method, consumption for the sounder strobe. (Factory default is single address Tone 14 under normal consumption mode. Tone 14, Tone 16 and Pre-alarm are recognized by LPCB).

Table 1

		Table I				
Para- meter	Tone	Sound Level 1m Ahead/24V (dB)	Address Setting	Consump- tion mode		
01	01	79				
02	02	81				
-	03					
03		79				
04	04	81				
05	05	80				
06	06	78				
07	07	75				
08	08	78	Single			
09	09	80	address			
-	10					
10		79				
11	11 12	77				
12 13	13	80 77				
14	14	79				
15	15	77				
16	16	82		Power-		
17	01	79		Saving		
18	02	81				
19	03	79				
20	04	81				
	05	80				
21 22	06	78				
23	07	75				
24	08	78	Dual			
25	09	80	addresses			
26	10	79				
27	11	77				
28	12	80				
29	13	77				
30	14 15	79				
31	16	77				
32 Pre-a		82				
	1 01	75				
33 34	02	89 86				
35	03	84				
36	03	86				
37	05	86				
38	06	85				
39	07	85				
40	08	88	Single			
41	09	83	address			
42	10	85				
43	11	87				
44	12	84				
45	13	84				
46	14	86				
47	15	83				
48	16	84				
49	01	89				
50	02	86		Normal		
51	03	84				
52	04	86				
53	05	86				
54	06	85				
55	07	85				
56	08	88	Dual			
57	09	83	addresses			
58	10	85				
59	11	87				
60	12	84				
61	13	84				
62	14	86				
63	15	83				
	16					
64		84				
Pre-a	uarm	76				

Specification

_	
Operating	Loop: 24V (20V~28V)
Voltage	Power: 24V (20V~28V)
	Power-saving mode:
	♦ Loop-powered:
	Loop monitor current≤2mA
	Start current≤9mA
	Loop monitor current≤1mA
	Start current≤2mA
	Power monitor current≤1mA
	Start current≤9mA
	Note: The sounder strobe can only
Standby Current	work at power-saving mode when
	loop-powered with maximum 20
	sounder strobes in the loop.
	Normal mode:
	Loop monitor current≤2mA Start current≤35mA
	0.0
	♦ External 24V powered
	Loop monitor current≤1mA Start current≤2mA
	Power monitor current≤1mA
	Start current ≤ 35mA
	♦ Single address:
	1.4×(1±20%) Hz
	→ Dual addresses:
Flash Frequency	First address activated:
- idoi i roquonoy	0.7×(1±20%) Hz
	Second address activated:
	1.4×(1±20%) Hz
Programming	Single / dual address (refer to Table
Method	1)
Programming	1~242
Range	1~242
Ingress	
Protection	IP33
Rating	
Operating	-10℃~+50℃
Temperature	100 1000
Relative	≤95%, non condensing
Humanity	20070, Horr contactioning
Enclosure	ABS
Material	-
Dimension	ф 110mm×97.5mm (deep base)
(L×W×H)	ф 110mm×83mm (shallow base)
Mounting Hole	55mm~80mm
Spacing	
Weight	About 355g (deep base)
	About 327.2g (shallow base)

WEEE Information



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your

local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

Tone Type

Tone	Description
01	970Hz
02	800Hz / 970Hz @ 2Hz
03	800Hz -970Hz @1Hz
04	970Hz 1s off / 1s on
05	970Hz, 0.5s / 630Hz, 0.5s
06	500Hz - 1200Hz×3, 3.5s on / 0.5s off
07	2850Hz, 0.5s on / 0.5s off×3 / 1.5s off
08	2850Hz 0.4s on, 0.3s off
09	550Hz, 0.7s / 1000Hz, 0.33s
10	1500Hz -2700Hz @ 3Hz
11	2400Hz
12	500Hz -1200Hz @ 0.33Hz
13	2400Hz -2900Hz @ 9Hz
14	2400Hz -2900Hz @ 3Hz
15	800Hz-970Hz @ 3Hz
16	500Hz-1200Hz, 3.75s / 0.25s off
Pre-alarm	800Hz 1s off / 1s on

Accessories and Tools

Model	Name	Remarks		
C-94DB	Deep Base	Order separately		
C-94WL	Transparent Colorless Lens	Order separately		
P-9910B	Hand Held Programmer	Order separately		

Limited Warranty

GST warrants that the product will be free from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

This product is not approved to EN54-23 (Beacon Functionality) and must not be used as a visual alarm device or to provide a primary warning notification of fire.

Appendix 1 Operational Performance Data for LPCB Approved Tones

1. Tone 14 - Maximum Volume dB(A)

	Normal Mode				Power Saving Mode			
AI -	Horizontal Plane		Vertical Plane		Horizontal Plane		Vertical Plane	
Angle	Max 28V	Min 20V	Max 28V	Min 20V	Max 28V	Min 20V	Max 28V	Min 20V
15°	81.1	78.5	83.7	80.7	71.8	72.3	73.2	73.6
45°	89.4	87.2	89.7	86.9	78.0	77.9	77.4	77.7
75°	88.9	86.6	89.3	86.6	81.3	80.9	81.0	81.2
105°	89.4	86.9	89.4	86.6	81.6	80.8	80.8	81.2
135°	89.4	87.0	89.2	86.1	78.2	78.0	77.1	77.1
165°	83.4	81.3	82.2	79.3	75.1	75.0	72.9	71.9

2. Tone 16 - Maximum Volume dB(A)

	Normal Mode				Power Saving Mode			
A l -	Horizontal Plane		Vertical Plane		Horizontal Plane		Vertical Plane	
Angle	Max 28V	Min 20V	Max 28V	Min 20V	Max 28V	Min 20V	Max 28V	Min 20V
15°	82.8	80.3	86.1	83.9	80.4	79.1	82.1	81.9
45°	93.2	92.0	94.5	92.7	86.8	86.7	87.9	87.8
75°	99.7	98.2	100.3	98.6	91.2	91.4	91.9	92.0
105°	98.3	97.3	97.8	95.8	92.4	92.5	92.0	91.8
135°	94.4	92.8	92.0	90.4	88.4	88.3	87.0	87.1
165°	84.3	82.3	83.6	81.7	77.1	77.3	77.8	77.7

3. Pre-alarm - Maximum Volume dB(A)

	Normal Mode				Power Saving Mode			
AI -	Horizontal Plane		Vertical Plane		Horizontal Plane		Vertical Plane	
Angle	Max 28V	Min 20V	Max 28V	Min 20V	Max 28V	Min 20V	Max 28V	Min 20V
15°	77.1	74.1	79.5	76.3	72.6	73.8	70.7	71.4
45°	88.2	86.4	89.1	87.8	82.6	82.4	83.5	83.4
75°	96.1	94.2	95.9	94.4	87.4	87.7	87.8	87.6
105°	94.2	92.5	94.5	92.9	87.1	87.0	87.3	87.5
135°	87.5	85.6	87.6	85.8	81.5	81.4	81.5	81.5
165°	77.8	75.7	77.6	76.5	72.6	72.6	71.8	72.1

This Data Sheet is subject to change without notice. Please contact GST for more information or questions.

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