Features

✧ Providing two tones.
✧ Using several ultra-high brightness (UHB) red LEDs as light source.
✧ Loop powered, low consumption.
✧ Polarity-insensitive signal cables.
✧ Complies with EN 54-3.

Description

I-9407 Intelligent Sounder Strobe is a kind of audible and visual alarm device installed in field, which can be initiated by fire alarm control panel in fire control center to generate strong audible and visual alarm signal warning people to evacuate.

Both 25.5mm shallow base and 40mm deep base are available. Unless otherwise specified, illustrations in this manual refer to the shallow base.

Connection & Wiring
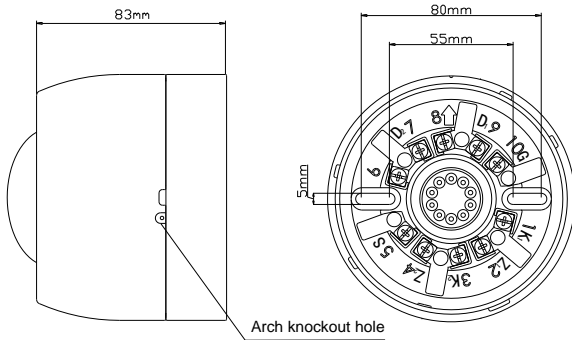
Terminals on the base are shown in Fig. 2.

Fig. 1   Fig. 2

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

Recommended Wiring

1.0mm^2 or above fire cable, subject to local codes.

Installation

✧ The sounder strobe is surface mounted. It's recommended to be installed 0.2m from the ceiling if the height of the space is normal. Fig. 2 shows the mounting hole spacing and mounting direction.

➢ If the conduit is embedded in the wall, the base can be mounted on the electrical box. In this case, both deep and shallow bases can be used. Refer to Fig. 3a and 3b.

➢ If the conduit is surface mounted, then only the deep base can be used and the conduit is to be installed through the knockout hole. Refer to Fig. 4.

✧ The base and the sounder strobe are twisted together. When mounting, remove the sounder strobe, thread cables through cable entry in the base and connect with corresponding terminals, then twist the sounder strobe onto the base.

✧ If the sounder strobe is required to be tamper resistant, knock down the arch knockout hole as shown in Fig. 1 and fasten it with the base using ST2.9×6.5 tapping screws (in this case, it has to be removed with special tools).
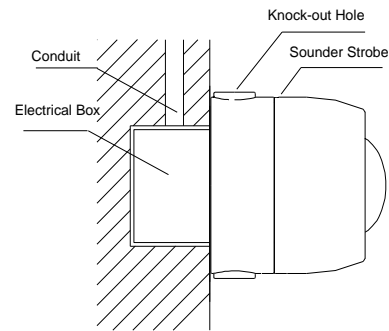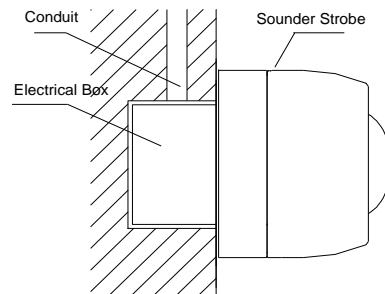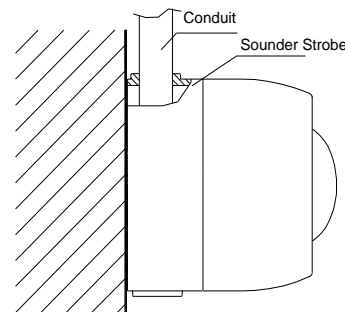

Fig. 3a (deep base)

Fig. 3b

Fig. 4 (deep base)

Application

The address of the sounder can be programmed using a programmer. Refer to *P-9910B Hand Held Programmer Installation and Operation Manual* for details.

✧ The sounder strobe occupies two consecutive addresses when its device type is 121. It occupies one address when its device type is other numbers (factory default is 27).

◇ To make the sounder work in Tone I, the sounder strobe must be programmed with two addresses, and the first one should be initiated through the control panel.
◇ To make the sounder work in Tone II:
  ➢ Initiate the sounder strobe through the control panel will start Tone II by default.
  ➢ Initiating the second address of the sounder strobe through the control panel if it occupies two addresses.
◇ The wiring of the sounder strobe and direct control through volt-free normally open contact of the manual call point are shown in Fig. 5.
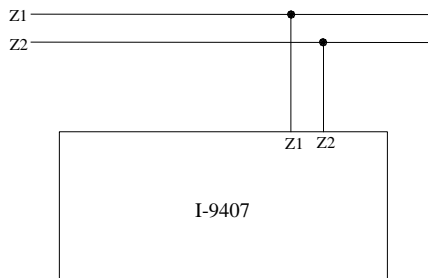

Fig. 5

Sound Level Data

Tone I (alarm), Maximum Volume

Angle	Horizontal		Vertical	
	16V	28V	16V	28V
15°	90.10	90.67	90.15	90.91
45°	91.50	93.97	91.57	92.93
75°	94.25	96.85	94.98	96.32
105°	94.43	96.22	94.42	96.67
135°	92.11	92.97	91.65	92.80
165°	90.20	90.84	90.15	90.98

Tone II (pre-alarm), Maximum Volume

Angle	Horizontal		Vertical	
	16V	28V	16V	28V
15°	90.67	90.53	90.15	90.11
45°	91.50	92.20	91.61	92.40
75°	94.37	95.95	94.56	95.53
105°	94.65	95.13	94.91	95.15
135°	92.11	92.57	92.02	92.65
165°	90.10	90.41	90.78	90.11

Accessories and Tools

Model	Name	Remark
P-9910B	Hand Held Programmer	Supplied Separately
C-94DB	Base	Supplied Separately

Specification

Operating Voltage	Loop: 24V (16V~28V)
Standby Current	Loop≤0.8mA
Action Current	Loop≤9mA
Wiring	Two-wire, connecting with polarity-insensitive loop.
Tone I	Sound Level: 85dB~115dB (at 1m ahead horizontally (A weighted) Flashing Frequency: 1.72× (1±20%)Hz Sound Pattern: 2.9KHz (150ms on /430ms off)
Tone II	Sound Level: 85dB~115dB (at 1m ahead horizontally (A weighted)) Flashing Frequency: 4.17× (1±20%) Hz Sound Pattern: 2.9KHz (150ms on /90ms off)
Programming Mode	Electronically addressed
Programming Range	Occupying 1 or 2 (when device type is 121) address within 1~242.
Ingress Protection Rating	IP33
Operating Temperature	−10℃～+50℃
Relative Humidity	≤95%, non condensing
Material of Enclosure	ABS
Dimension (L×W×H)	φ110mm×97.5mm (deep base) φ110mm×83mm (shallow base)
Mounting Hole Spacing	55mm～80mm
Weight	About 355g (deep base) About 327.2g (shallow base)

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.