

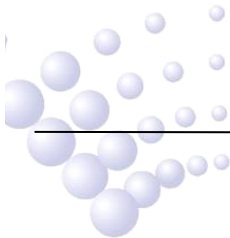
**C-9401N Conventional Sounder Strobe  
Installation and Operation Manual  
(Issue 1.02, October 2020)**



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## I General

Sounder Strobe is a kind of optical and visual alarm device used to warn people in field when fire occurs.

C-9401N conventional sounder strobe can give optical and visual alarm when powered by DC24V, and can be connected to fire alarm control panel through an addressable linkage control module. When it is not started, wire checking can be done by loading reverse voltage and connecting terminal resistor at the end of the circuit.

## II Features

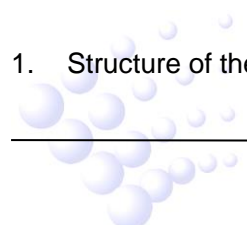
1. Red plexiglass panel, several strong red LED as light source, striking, long-life and low consumption.
2. Circuit part and base box are plugged together, reliable contact convenient for engineering;
3. Fire alarm sound over 80dB, easy to catch attention.
4. DC24V two-wire, polarized, easy for wire checking (connecting terminal resistor when checking, the resistance value can be deiced by connecting devices).

## III Technical Specifications

1. Operating Voltage:  
Power Bus Voltage: DC24V                      Range Allowed: DC20V~DC28V
2. Operating Current:  
Power Standby Current: 0mA;  
Power Alarming Current $\leq$ 37mA;
3. Flashing Frequency: 1.1Hz~1.8Hz (DC20V~DC28V)
4. Alarm Voice: 80dB~115dB(Due front 3m horizontal (A weighted))
5. Modulation Cycle: 3.2s~4.8s
6. Wiring:Non-polarized two-wire with the power.
7. Operating Environment:  
Temperature:-10°C~+50°C  
Relative Humidity $\leq$ 95%, no condensation;
8. Where used: indoor
9. Dimension: 144mm×90mm×60.5mm (with base)
10. IP Rating: IP43
11. Material and Color of Enclosure: ABS/ ivory white, front inlaid with plexiglass/red
12. Weight: about 258g (with base)
13. Hole Distance: 65mm

## IV Structure and Operation Principle

1. Structure of the sounder strobe is shown in Fig. 1.



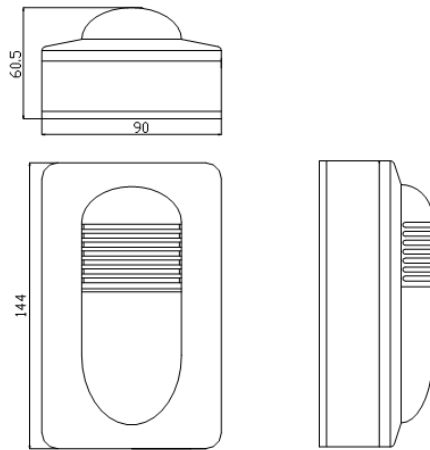


Fig. 1 Structure

2. Operation Principle:

Sounder strobes use sound effect chip amplified by dynatron and transformer to vocalize the speaker; 3 LEDs are controlled by timing circuit giving flashing light signal.

Conventional sounder strobe can be started when loading DC24V between V+ and V-.

## V Mounting and Wiring

**Warning: Before installing the device, disconnect the power from the loop and verify that all bases are securely installed and that the wiring polarity is correct at each base.**

1. The sounder strobe is wall-mounted. It should be 0.2m far from the ceiling in ordinary height space.
2. Check whether the enclosure sound or not, labels complete or not.
3. The base box and cover of the sounder strobe are plugged together, surfaced mounted on 85H50 embedded box as shown in Fig. 2.

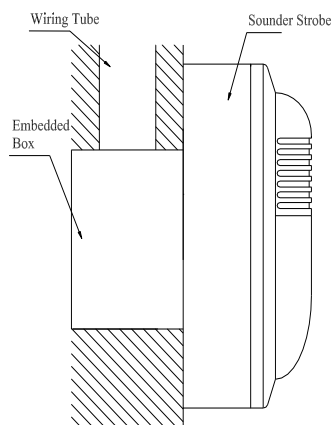
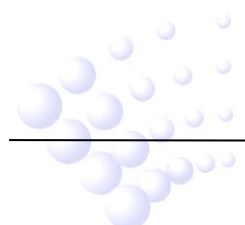


Fig. 2 Mounting

4. The base box of C-9401N is shown in Fig. 3, please note direction when installing.



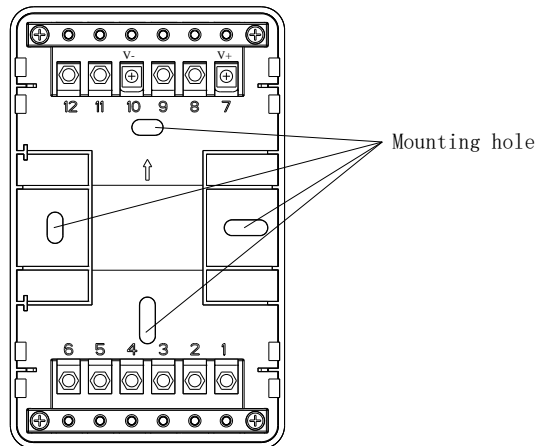


Fig. 3 C-9401N Base box

V+, V-: Startup power DC24V; V+ is positive, V- is negative.

5. Wiring: Twisted pair for signal loop Z1 and Z2, cross section  $\geq 1.0\text{mm}^2$ ; 227IEC01 wire for power supply D1 and D2, cross section  $\geq 1.5\text{mm}^2$ .

## VI Testing

**Warning: Power up only after all devices are well connected.**

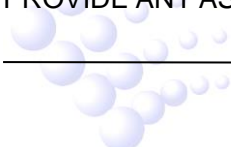
1. Test should be made to the sounder strobe at least once a year after installation and put into operation.
2. Before testing, notify the proper authorities that the system is undergoing maintenance and will temporarily be out of service. Disable the zone or system undergoing maintenance to avoid unwanted alarms.
3. Testing: Connect DC24V to V+, V-; V+ is positive and V- negative. The sounder strobe will be activated and give audio and visual alarm.
4. After testing, sounder strobe can be reset by power cut. Notify the proper authorities the system is back on line.
5. If a sounder strobe fails in testing, check its connection and test again. If it still fails, return for repair.

## VII Applications

C-9401N: sounder strobe connects DC24V power in direct startup; V+ is positive and V- is negative which are reverse when not started up.

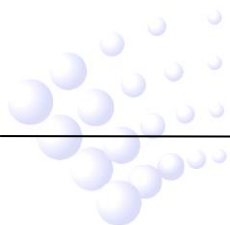
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