SensoIRIS CSOU IS Secure Electric Alarm Installation Guide

Contents

SensoIRIS

SensoIRIS CSOU IS Secure Electric Alarm

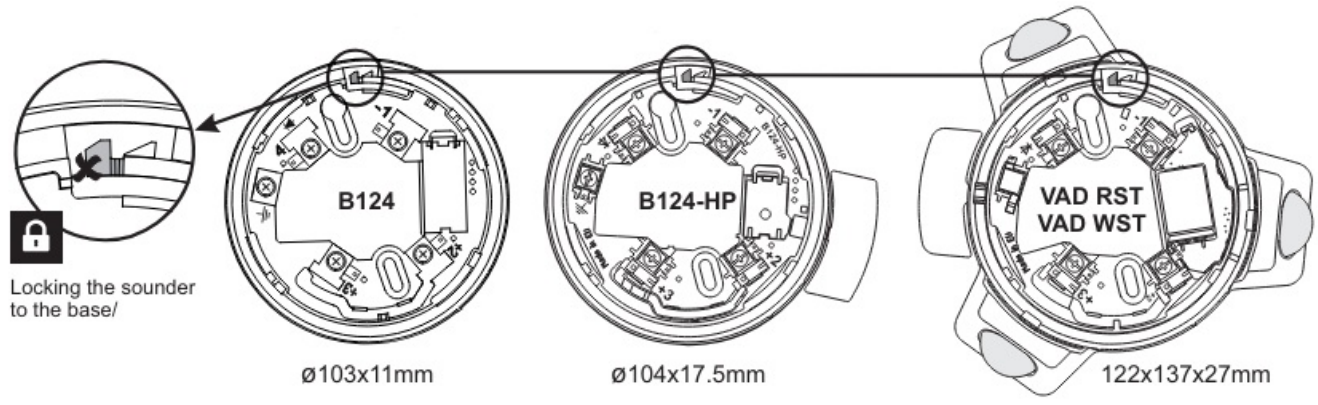
Specifications

- **Product Name:** SensoIRIS CSOU IS
- **Type:** Intelligent analogue addressable sounder with base and built-in isolator module
- **Compliance:** EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006, EN 54-17:2005, EN 54-17:2005/AC:2007
- **Sounder Type:** A
- **Dimensions:** 105mm x 22mm
- **Weight:** ~120g
- **Installation:** IP21C (Indoor use)

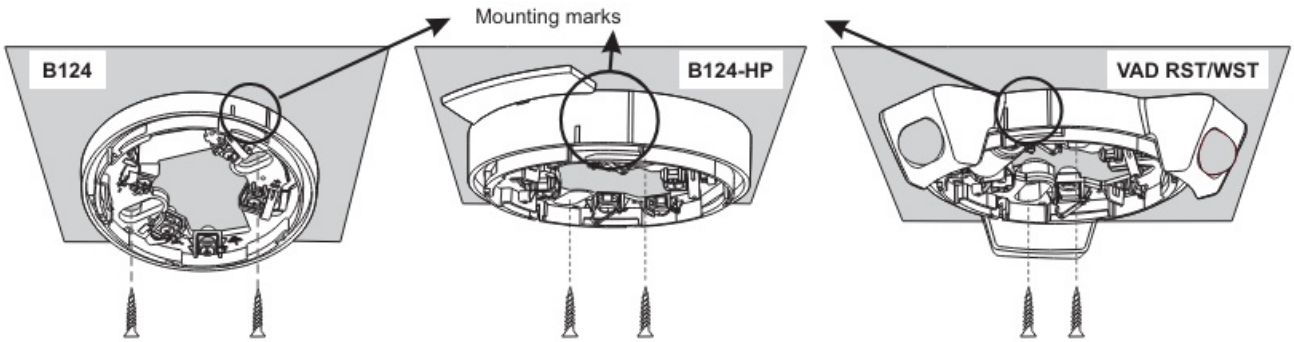
Product Usage Instructions

1. Power off the loop circuit before installing the SensoIRIS CSOU IS addressable sounder.
2. Choose the proper place for installation of the device.
3. Set the device address using SensoIRIS Programmer or directly from addressable fire panel within the range from 1 to 250.
4. Mount the standard base according to installation requirements.
5. Connect the standard base to the fire panel using the provided wiring diagrams.
6. Insert the SensoIRIS CSOU IS sounder into the standard base and rotate it clockwise until it clicks into place.
7. Insert a detector (SensoIRIS T110 (IS)/ S130 (IS)/ M140 (IS)) into the sounder base and rotate until it locks in place.
8. Program the device parameters from the control panel.
9. Test the sounder for proper operation.
10. To remove the sounder or detector, use the special tool available in all SensoIRIS standard bases.

Standard Bases



Standard Bases – Mounting



Use suitable screws according the type of the mounting surface

Connection Diagram

Attention: DO NOT CONNECT the Earth terminal (⏚) of B124 and B124-HP bases to the loop line!

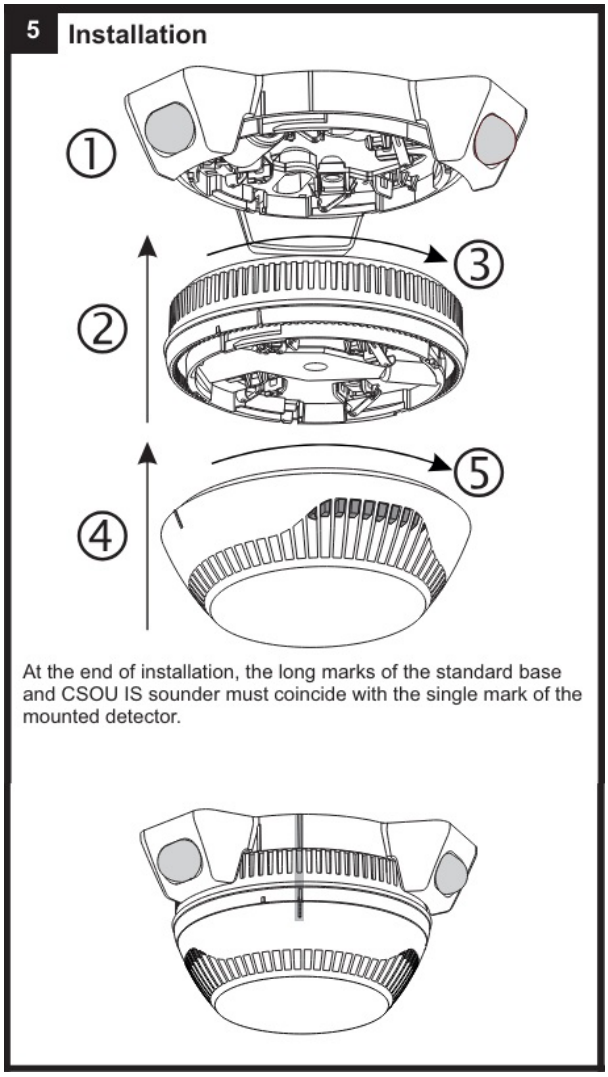
Legend

- RI – Remote Indicator
- +Loop – Positive loop wire
- -Loop – Negative loop wire

— Mounting of T110 IS, S130 IS and M140 IS to the CSOU IS and using the built-in isolators in the detector and in the sounder.

…… Mounting of T110, S130 and M140 to the CSOU IS and not using the built-in isolator in the sounder; Mounting of T110 IS, S130 IS and M140 IS to the CSOU IS and not using the built-in isolators in the detector and in the sounder.

Installation

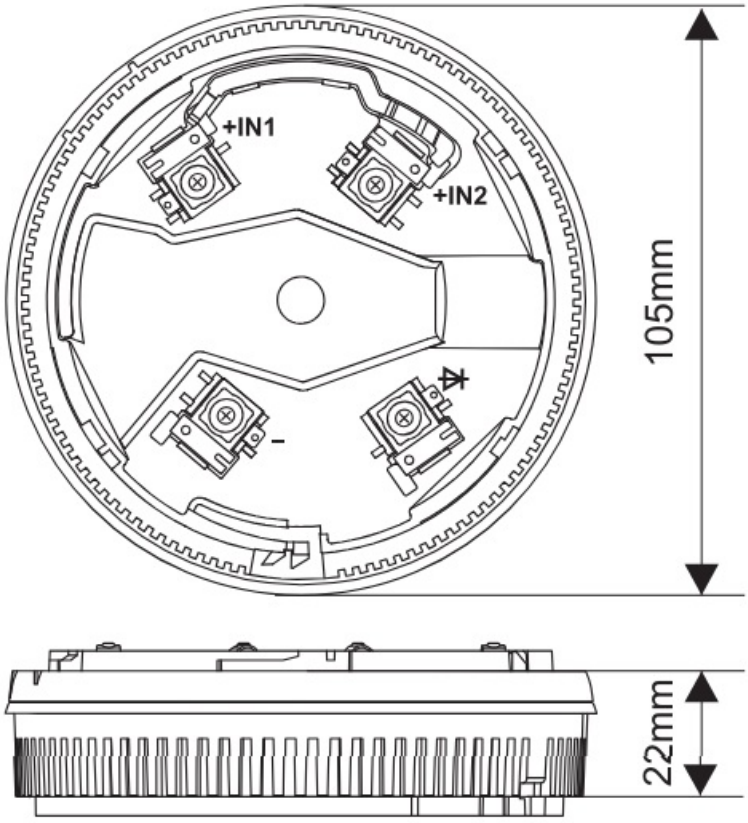


Tone types and Description

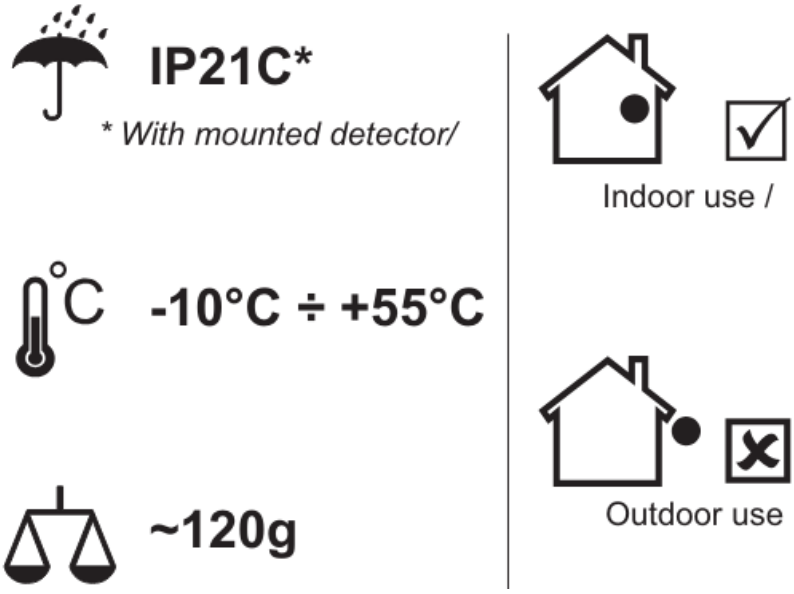
Tone	Tone Type	Tone Description / Application
1		970Hz
2		800Hz/970Hz @ 2Hz
3		800Hz - 970Hz @ 1Hz
4		970Hz 1s OFF/1s ON
5		970Hz, 0.5s/ 630Hz, 0.5s
6		554Hz, 0.1s/ 440Hz, 0.4s (AFNOR NF S 32 001)
7		500 - 1200Hz, 3.5s/ 0.5s OFF (NEN 2575:2000)
8		420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)
9		500 - 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (AS1670 Evacuation)
10		550Hz/440Hz @ 0.5Hz
11		970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201)
12		2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201)
13		1200Hz - 500Hz @ 1Hz (DIN 33 404)
14		400Hz
15		550Hz, 0.7s/1000Hz, 0.33s
16		1500Hz - 2700Hz @ 3Hz
17		750Hz
18		2400Hz

19		660Hz
20		660Hz 1.8s ON/1.8s OFF
21		660Hz 0.15s ON/0.15s OFF
22		510Hz, 0.25s/ 610Hz, 0.25s
23		800/1000Hz 0.5s each (1Hz)
24		250Hz - 1200Hz @ 12Hz
25		500Hz - 1200Hz @ 0.33Hz
26		2400Hz - 2900Hz @ 9Hz
27		**2400Hz - 2900Hz @ 3Hz** (**2500Hz** - main sound frequency/ основна честота)
28		800Hz - 970Hz @ 100Hz
29		800Hz - 970Hz @ 9Hz
30		800Hz - 970Hz @ 3Hz
31		800Hz, 0.25s ON/1s OFF
32		600Hz – 1100Hz, 2.6s/0.4s OFF

Dimensions



Installation



Installation Instruction

ATTENTION: Read carefully this installation Instructions before installing the device!
This manual is subject to change without notice!
SensoRis CSOU IS is an addressable sounder with base and built-in isolator module, compatible for mounting on all models standard bases for SensolRIS devices. The sounder is designed for installing in addressable fire alarm systems which support operation via

TTE communication protocol. The device is powered on from the panel and can be controlled via the communication protocol.
SensoRIS CSOU IS supports 32 different tone types at two sound levels. The tone type and sound level are programmed from the control panel.
The SensolRis CSOU IS is compatible for operation with SensolRiS addressable detectors series: T110 (IS), S130 (IS) and M140 (IS).

The sounder is compatible for mounting on the following bases:

1. SensolRIS B124 – Standard low profile base for addressable detectors and sounders.
2. SensolRIS B124-HP – Standard high profile base for addressable detectors and sounders.
3. SensoRIS VAD RST* – Standard base with built-in red LED flash beacons.
4. SensoRIS VAD WST* – Standard base with built-in white LED flash beacons.

The base SensoRIS VAD RST/WST is specially designed for use with SensolR/S CSOU IS sounders, as expands their application in fire alarm installations providing additional lighting indication in case of fire alarm events.

Attention: Power off the loop circuit before installing the SensoRIs CSOU IS addressable sounder!

1. Choose the proper place for installation of the device.
2. Set the device address using SensolRIS Programmer or directly from addressable fire panel. The address must be in the range from 1 to 250.
3. Mount the standard base (SensoRIS B124/B124-HP or SensoRIs VAD RST/WST), choosing the type according the requirement of the installation. If you want to “lock” the sounder to the standard base, remove the little “tooth” on the top of the locking mechanism of the base.
4. Connect the standard base to the fire panel using the wiring diagrams.

5. Insert the SensoRIS CSOU IS sounder into the standard base and rotate it clockwise until it drops into place – the short mark on the standard base fits with the long mark on the sounder body. Continue to rotate the sounder until the short and the long marks coincides with those on the base – a click is heard.
6. Insert a detector – SensoIRIS T110 (IS)/ S130 (IS)/ M140 (IS) – into the sounder base and rotate clockwise until it drops into place – the short mark on the sounder fits with that on the detector. Continue to rotate the detector until its mark coincides with the long mark on the sounder – a click is heard. If you want to “lock” the detector to the sounder before installation, remove the little “tooth” on the top of the locking mechanism of the sounder.

   Note: The mounted detector on the SensoIR/S CSOU IS sounder is assigned at different address to the control panel!
7. Program the sounder parameters. Choose in consecutiveness from the IRIS/SIMPO control panel: System – Programming – Devices – Loop. Find the installed sounder, as enter address, loop and zone number – the panel automatically will recognize its type**. Choose the button MORE to enter in the additional settings menu and to review the SW version and ID number of the sounder.

   ** When the sounder is mounted on B124 or B124-HP base, it is recognized from the panel as “CSOU IS”. When the sounder in mounted on VAD RST or VAD WST base, it is recognized from the panel as “CSOU IS / VAD”.
8. Test the sounder for proper operation.
9. If the sounder has been locked to the base, to remove it for a service schedule maintenance and cleaning, you have to use the special tool available in all SensoRIS standard bases. Light press with the tool into the base opening and at the same time rotate the sounder body counter-clockwise. The same way is used for unlocking a detector from the SensoRIs CSOU IS addressable sounder.

Warranty

All devices carry on a warranty valid from the date of manufacture. The date of manufacture can be checked on the device. The first two numbers represent the year and the last two – the month.

For example: The date code “21 07”, means the sounder is manufactured in July, 2021.
To return goods for warranty service, please contact with your local distributer for details.

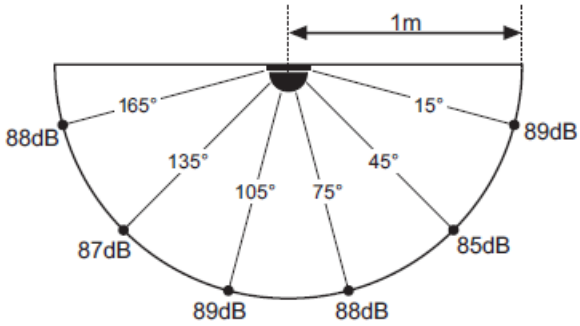
Technical Specifications

- Operating Voltage Range. . . . . 16 – 32VDC
- Maximal consumption at communication . . . . . 470 µA @ 27VDC
- Maximal consumption: . . . . . Максимална консумация:
  - main tone type 27, low volume level . . . . . 3 mA @ 27VDC
  - main tone type 27, high volume level . . . . . 10 mA @ 27VDC
- Power volume (main tone type 27): . . . . . Изходна мощност (основен тип на звука 27):
  - low volume (up to 100 pcs sounders* to the loop) . . . . . ~ 81dB (A) ± 3dB @ 1m
  - high volume (up to 30 pcs sounders* to the loop) . . . . . ~ 88dB (A) ± 3dB @ 1m
- Power volume (other tone types): . . . . . Изходна мощност (друг тип звук):
  - low volume (up to 100 pcs sounders* to the loop) . . . . . ~ 81dB (A) ± 3dB @ 1m
  - high volume (up to 30 pcs sounders* to the loop) . . . . . ~ 87dB (A) ± 3dB @ 1m
- Number of tone types. 32

- Supported communication protocol . . . . . TTE
- Relative humidity resistance . . . . . (93 ± 3)% @ +40°C
- Material . . . . . ABS

SensoIRIS CSOU IS

A-weighted sound level diagram



* Vso max/min

Note: Switches from closed to open

** Vsc max/min

Note: Switches from open to closed

Isolator Module Technical Specifications

- Vmax . . . Max. line voltage 32V
- Vnom . . . Nom. line voltage 28V
- Vmin . . . . Min. line voltage 16V
- Vso max . Max. voltage at which the device isolates* 7.5V
- Vso min. . Min. voltage at which the device isolates* 5.9V
- Vsc max . Max. voltage at which the device reconnects** 6.7V
- Vsc min. . Min. voltage at which the device reconnects** 5V
- Ic max . . . Max. rated continuous current with the switch closed. 0.7A
- Is max. . . Max. rated switching current (e.g. under short circuit) 1.8A
- Il max . . . Max. leakage current with the switch open (isolated state). 16mA
- Zc max . . Max. series impedance with the switch closed . . . . . 0.12Ω@28VDC; 0.15Ω@15VDC

DoP No: 191
Tested by EVPU
Teletek Electronics JSC Address: 2 Iliyansko shose Str, 1220 Sofia, Bulgaria
EN 54-3:2001

EN 54-3:2001/A1:2002
EN 54-3:2001/A2:2006
EN 54-17:2005
EN 54-17:2005/AC:2007
Sounder Type: A

FAQ

How do I set the device address?

You can set the device address using SensoIRIS Programmer or directly from the addressable fire panel within the range from 1 to 250.

How do I unlock the sounder from the standard base?

To unlock the sounder for service or maintenance, use the special tool provided with all SensoIRIS standard bases. Lightly press into the base opening and rotate the sounder body counter-clockwise.

How do I test the sounder for proper operation?

To test the sounder, ensure it is properly connected to the fire panel and trigger a test alarm to verify its functionality.

Documents / Resources

	SensoIRIS CSOU IS Secure Electric Alarm [pdf] Installation Guide T110 IS, S130 IS, M140 IS, CSOU IS Secure Electric Alarm, CSOU IS, Secure Electric Alarm, Electric Alarm, Alarm

References

- User Manual