## Safety Information

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Esmi Impresia Base Base Sounder/Esmi Impresia Sounder

Esmi Impresia Base Base Sounder/Esmi Impresia Sounder is an addressable sounder with a base and built-in short circuit isolator, compatible with all Esmi Impresia standard bases. The sounder is designed for installation in addressable fire detection systems with ELC Loop Controllers, which communicate via the ELC communication protocol. The device is powered from the panel and can be controlled via the communication protocol. The sounder supports 32 different tone types at two sound levels. The tone type and sound level are programmed in EcoStruxure™ Fire Expert.

For more technical information visit www.se.com.
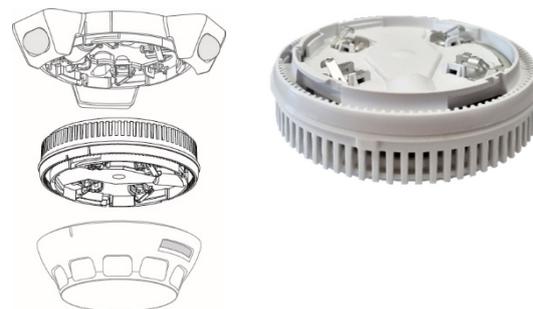
CE 24
1293
DoP No: DP23029
Made in Bulgaria
EN 54-3:2001
EN 54-3:2001/A1:2002
EN 54-3:2001/A2:2006
EN 54-17:2005
EN 54-17:2005/AC:2007
Sounder Type: A

Schneider Electric Buildings AB
Mobilvägen 8
22362 Lund
Sweden

⚠ WARNING

COMPROMISED FUNCTIONALITY

- Make sure that the setup where the device is installed meets the device specifications.
- Remove the sounder if it will be exposed to excessive dust or similar, due to, for example, maintenance work.
- Make sure that the corresponding address is enabled in the fire detection panel when the sounder is re-installed.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Part Numbers and Designations

Product	Color	Designation	Part number
Esmi Impresia Base Base Sounder/Esmi Impresia Sounder	White	Not applicable	FFS06741030
	Black	EIB-6200	FFS06742030

Part numbers and designations for related products

Product	Color	Designation	Part number
Esmi Impresia Standard Base	White	Not applicable	FFS06741018
	Black	EIB-2200	FFS06742018
Esmi Impresia Standard High Profile Base	White	Not applicable	FFS06741028
	Black	EIB-2300	FFS06742028
Esmi Impresia R VAD for Base Base Sounder	White	Not applicable	FFS06741032
Esmi Impresia W VAD for Base Base Sounder	White	Not applicable	FFS06741033
Esmi Impresia Plastic Lid	White	Not applicable	FFS06741023
Esmi Impresia Handheld Programming Tool	White	Not applicable	FFS06741026
Esmi Impresia Heat Detector	White	Not applicable	FFS06741002
	Black	EIB-1200	FFS06742002
Esmi Impresia Multicriteria Detector	White	Not applicable	FFS06741003
	Black	EIB-1300	FFS06742003
Esmi Impresia Smoke Detector	White	Not applicable	FFS06741001

Compatibility

The Esmi Impresia Base Base Sounder/Esmi Impresia Sounder is compatible with all Esmi Impresia detectors.
The sounder is compatible with the following bases:
1. Esmi Impresia Standard Base - Standard low-profile base for addressable detectors and sounders.
2. Esmi Impresia Standard High Profile Base - Standard high-profile base for addressable detectors and sounders.
3. Esmi Impresia R VAD for Base Base Sounder* - Standard base with built-in red LED flash beacons.
4. Esmi Impresia W VAD for Base Base Sounder* - Standard base with built-in white LED flash beacons.
* The Esmi Impresia R/W VAD is specifically designed for use with Esmi Impresia Base Base Sounders/Esmi Impresia Sounders, as it expands the application in fire detection installations providing additional lighting indication in case of fire alarm events.
The sounder is compatible with the following cover:

1. Esmi Impresia Plastic Lid

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Specifications

Operating temperature .... −10 °C to +55 °C
Weight.. approx. 120 g
Ingress protection rating (detector must be installed).. IP21C
Mounting location .... Indoor
Color .... White: RAL 9016
.... Black: RAL 9005

Technical Specifications

Operating voltage .... 16–32 VDC
Maximum consumption at communication .... 470 µA at 27 VDC
Maximum consumption:
- main tone type 27, low volume level .... 3 mA at 27 VDC
- main tone type 27, high volume level .... 10 mA at 27 VDC
Sound level (main tone type 27):
- low volume (up to 100 sounders* on the loop)... ~ 81 dB (A) ± 3 dB at 1 m
- high volume (up to 30 sounders* on the loop).. ~ 88 dB (A) ± 3 dB at 1 m
Sound level (other tone types)
- low volume (up to 100 sounders* on the loop).. ~ 81 dB (A) ± 3 dB at 1 m
- high volume (up to 30 sounders* on the loop).. ~ 87 dB (A) ± 3 dB at 1 m
Number of tone types 32
Supported communication protocol .... ELC
Maximum relative humidity .... (93 ± 3)% at +40 °C
Material .... ABS

* Esmi Impresia Base Base Sounder

Short Circuit Isolator Technical Specifications

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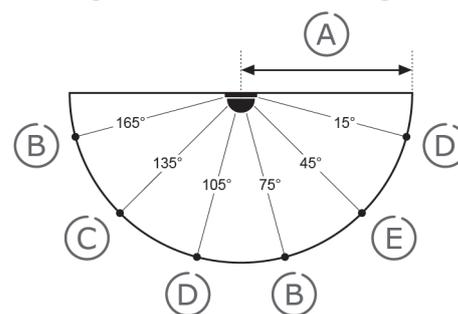
*) Switches from closed to open
**) Switches from open to closed

Dimensions
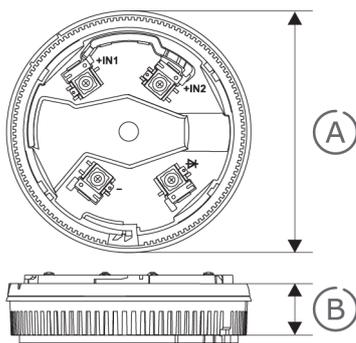
A. 105 mm
B. 22 mm

A-Weighted Sound Level Diagram

A. 1 m
B. 88 dB
C. 87 dB
D. 89 dB
E. 85 dB

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Installation Instructions

> ## NOTICE
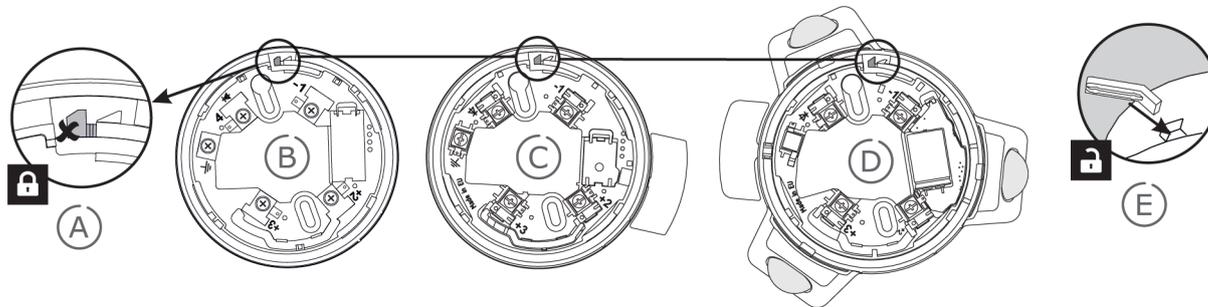>
> **SHORT CIRCUIT AND ELECTROSTATIC DISCHARGE**
>
> - Remove all power from the fire detection panel before you measure, connect, or disconnect wires.
> - First disconnect the battery, then the main power supply.
>
> **Failure to follow these instructions can result in equipment damage.**

1. Set the address on the sounder.
2. Install a base.
   Select the type of base according to the installation requirements.
3. If you want to make it more difficult to remove the sounder from the base, remove the locking tab on the base.
4. Connect the base to the fire detection panel according to the connection diagrams.
5. Align the long line on the sounder with the short line on the base.
6. Insert the sounder into the base.
7. Rotate the sounder clockwise until you hear a click.
8. Make sure that the long line on the base is aligned with the long line on the sounder.
9. If you want to make it more difficult to remove the detector from the sounder, remove the locking tab on the sounder.
10. Align the line on the detector with the short line on the sounder.
11. Insert the detector into the sounder
12. Rotate the detector clockwise until you hear a click.
13. Make sure that the line on the detector is aligned with the long line on the sounder
    NOTE: The detector and the sounder have different addresses.
14. In Fire Expert, configure the sounder. The sounder is called *Base sounder in standard base/Base sounder in red/white VAD base* in Fire Expert.
15. Test the sounder for proper operation.

To remove the sounder if the locking feature has been used, you need the release tool available in all standard bases. Gently press the tool into the opening in the base and at the same time rotate the sounder counter-clockwise. You release the detector from the sounder in the same manner.

Locking and Releasing

A. Remove locking tab to make it more difficult to remove the sounder from the base
B. Esmi Impresia Standard Base
C. Esmi Impresia Standard High Profile Base

D. Esmi Impresia VAD for Base Base Sounder
E. Insert tool to release the sounder from the base

Base Installation and Connection Diagram

> ## NOTICE
>
> **SHORT CIRCUIT AND ELECTROSTATIC DISCHARGE**
>
> - Remove all power from the fire detection panel before you measure, connect, or disconnect wires.
> - First disconnect the battery, then the main power supply.
>
> **Failure to follow these instructions can result in equipment damage.**

Refer to the following user instructions:

- O2038GB Esmi Impresia Standard Base Installation Quick Guide
- O2084GB Esmi Impresia Standard High Profile Base Installation Quick Guide
- O2088GB Esmi Impresia R VAD for Base Base Sounder Installation Quick Guide
- O2089GB Esmi Impresia W VAD for Base Base Sounder Installation Quick Guide
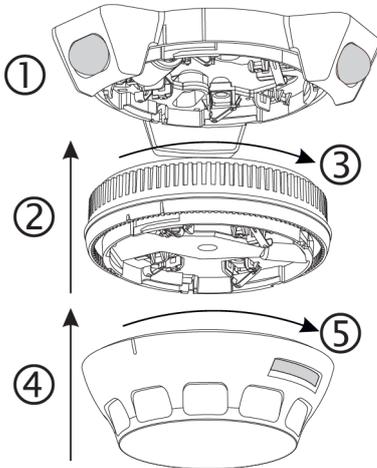
Setting the Address

Set the address on the sounder using one of these methods:

- QR code and EcoStruxure™ Fire Expert
- Esmi Impresia Handheld Programming Tool
  attach the sounder to the tool
- Auto addressing feature in the fire detection panel.

The address must be in the range from 1 to 250.

Installation

IMPORTANT: Make sure that the long lines on the base and on the sounder are aligned with each other as well as with the line on the detector.
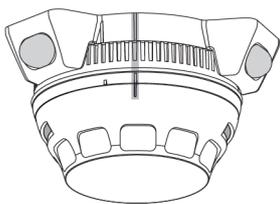
Tone Types and Descriptions

Tone	Tone Type	Tone Description/Application	High Level [dB at 1m]	Low Level [dB at 1m]
1		970 Hz	88	83
2		800 Hz/970 Hz at 2 Hz	88	83
3		800 Hz – 970 Hz at 1 Hz	88	82
4		970 Hz 1 s OFF/1 s ON	88	83
5		970 Hz, 0.5 s/ 630 Hz, 0.5 s	88	83
6		554 Hz, 0.1 s/ 440 Hz, 0.4 s (AFNOR NF S 32 001)	86	80
7		500 – 1200 Hz, 3.5 s/ 0.5 s OFF (NEN 2575:2000)	88	83
8		420 Hz 0.625 s ON/0.625 s OFF (Australia AS1670 Alert tone)	87	80
9		500 – 1200 Hz, 0.5 s/0.5 s OFF x 3/1.5 s OFF (AS1670 Evacuation)	87	81
10		550 Hz/440 Hz at 0.5 Hz	86	81
11	--- ---	970 Hz, 0.5 s ON/0.5 s OFF x 3/1.5 s OFF (ISO 8201)	88	83
12	--- ---	2850 Hz, 0.5 s ON/0.5 s OFF x 3/1.5 s OFF (ISO 8201)	90	85
13		1200 Hz – 500 Hz at 1 Hz (DIN 33 404)	87	82
14		400 Hz	85	80
15		550 Hz, 0.7 s/1000 Hz, 0.33 s	87	82
16		1500 Hz – 2700 Hz at 3 Hz	86	81
17		750 Hz	87	82
18		2400 Hz	86	78
19		660 Hz	87	80
20		660 Hz 1.8 s ON/1.8 s OFF	86	80
21		660 Hz 0.15 s ON/0.15 s OFF	86	79
22		510 Hz, 0.25 s/ 610 Hz, 0.25 s	87	80
23		800/1000 Hz 0.5 s each (1 Hz)	87	83
24		250 Hz – 1200 Hz at 12 Hz	86	80
25		500 Hz – 1200 Hz at 0.33 Hz	87	82
26		2400 Hz – 2900 Hz at 9 Hz	87	82
27		**2400 Hz – 2900 Hz at 3 Hz 2500 Hz** (main sound frequency)	**88**	**81**
28		800 Hz – 970 Hz at 100 Hz	87	81
29		800 Hz – 970 Hz at 9 Hz	87	80
30		800 Hz – 970 Hz at 3 Hz	87	81
31		800 Hz, 0.25 s ON/1 s OFF	86	79
32		600 Hz – 1100 Hz, 2.6 s/0.4 s OFF	88	83

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