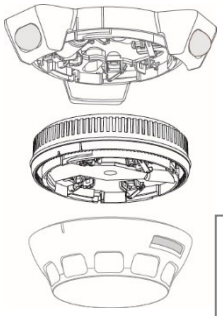
Installation Quick Guide

Esmi Fire

O2086GB3

Esmi Impresia Base Base Sounder



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.

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

Esmi Impresia Base Base Sounder

Esmi Impresia Base Base Sounder (FFS06741030) is an addressable sounder with a base and built-in isolator module, compatible with all Esmi Impresia standard bases. The sounder is designed for installation in addressable fire alarm 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 base sounder supports 32 different tone types at two sound levels. The tone type and sound level are programmed from the control panel.

The Esmi Impresia Base Base Sounder is compatible with Esmi Impresia detectors.

The sounder is compatible with the following bases:
1. Esmi Impresia Standard Base (FFS06741018) - Standard low profile base for addressable detectors and sounders.
2. Esmi Impresia Standard Base High Profile (FFS06741028) - Standard high profile base for addressable detectors and sounders.
3. Esmi Impresia R VAD for Base Base Sounder (FFS06741032)* - Standard base with built-in red LED flash beacons.
4. Esmi Impresia W VAD for Base Base Sounder (FFS06741033)* - 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, as it expands the application in fire alarm installations providing additional lighting indication in case of fire alarm events.

The sounder is compatible with the following cover:
1. Esmi Impresia Plastic Lid (FFS06741023).

For more technical information visit www.se.com.

⚠ WARNING

COMPROMISED FUNCTIONALITY

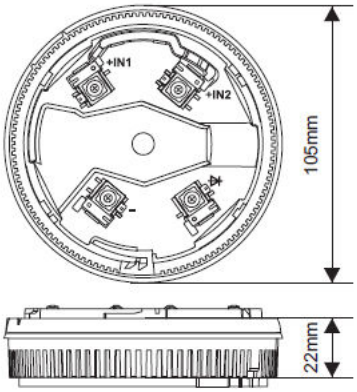
- Make sure that the setup where the device is installed meets the device specifications.
- Remove the sounder if it will be exposed to excessive dust or similar, due to, for example, maintenance work.
- Make sure that the corresponding address is enabled in the fire detection panel when the sounder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

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

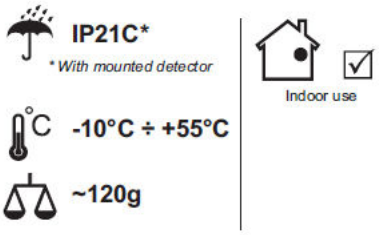
Technical Specifications

Placement ..... Indoors
Operating temperature ..... -10 °C to +55 °C
Operating voltage range. ..... 16 to 32 VDC
Maximal consumption at communication ..... 470 µA @ 27 VDC
Maximal consumption:
- main tone type 27, low volume level ..... 3 mA @ 27 VDC
- main tone type 27, high volume level ..... 10 mA @ 27 VDC
Power volume (main tone type 27):
- low volume (up to 100 pcs sounders* to the loop) ..... ~ 81dB (A) ± 3 dB @ 1 m
- high volume (up to 30 pcs sounders* to the loop) ..... ~ 88dB (A) ± 3 dB @ 1 m
Power volume (other tone types):
- low volume (up to 100 pcs sounders* to the loop) ..... ~ 81dB (A) ± 3 dB @ 1 m
- high volume (up to 30 pcs sounders* to the loop) ..... ~ 87dB (A) ± 3 dB @ 1 m
Number of tone types 32
Supported communication protocol ..... ELC
Relative humidity resistance ..... (93 ± 3)% @ +40 °C
Material ..... ABS
* Esmi Impresia Base Base Sounder (FFS06741030)

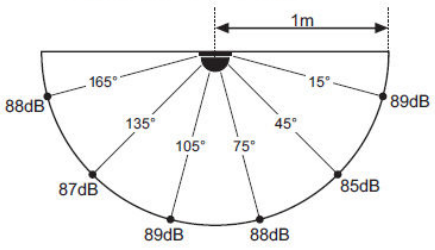
Dimensions



Installation



A-weighted sound level diagram



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Isolator Module Technical Specifications

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

Tone	Tone Type	Tone Description/Application	High Level [dB @ 1m]	Low Level [dB @ 1m]
1		970 Hz	88	83
2		800 Hz/970 Hz @ 2 Hz	88	83
3		800 Hz – 970 Hz @ 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 @ 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 @ 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 @ 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 @ 12 Hz	86	80
25		500 Hz – 1200 Hz @ 0.33 Hz	87	82
26		2400 Hz – 2900 Hz @ 9 Hz	87	82
27		**2400 Hz – 2900 Hz @ 3 Hz** **2500 Hz** (main sound frequency)	88	81
28		800 Hz – 970 Hz @ 100 Hz	87	81
29		800 Hz – 970 Hz @ 9 Hz	87	80
30		800 Hz – 970 Hz @ 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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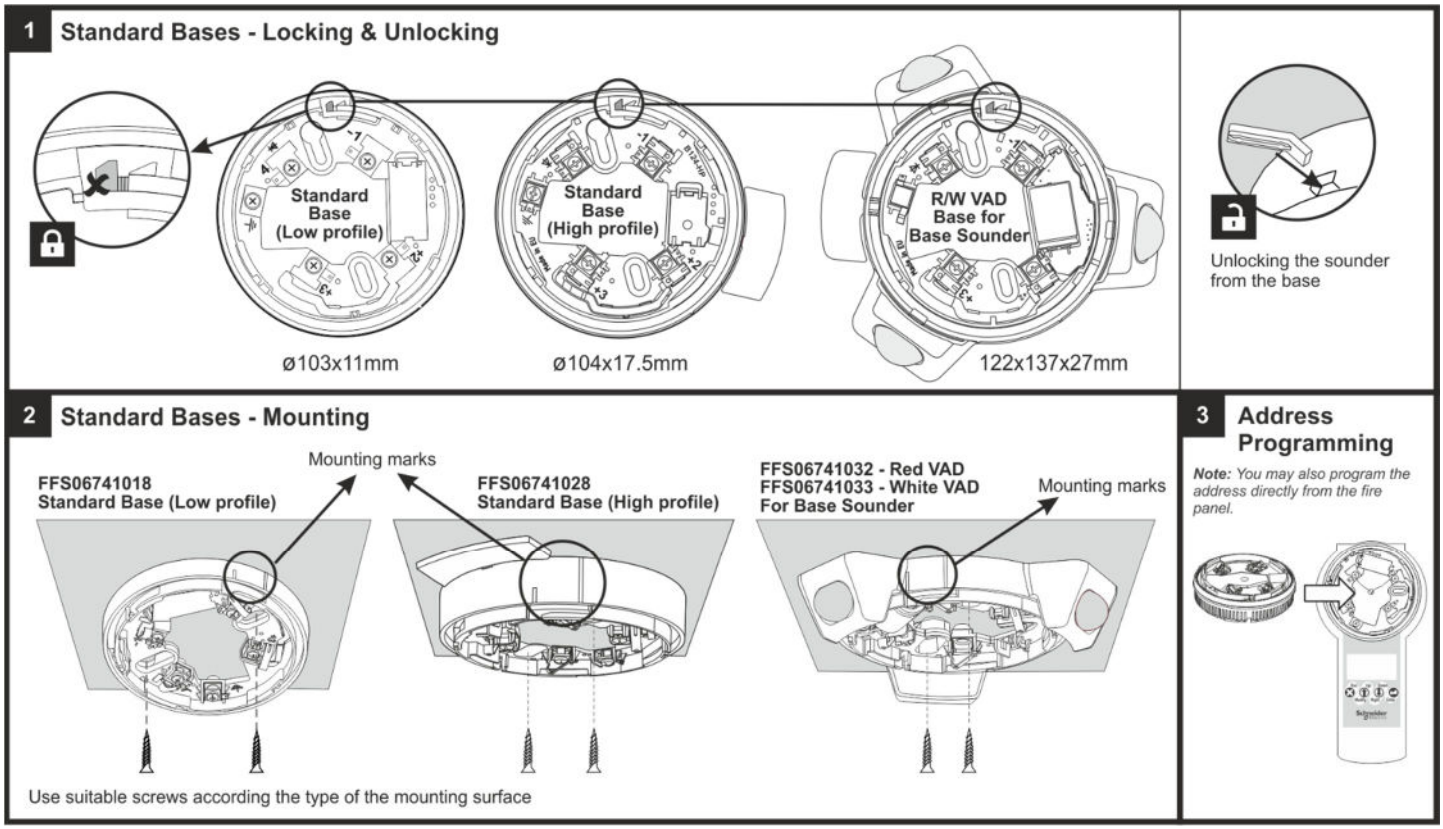
Installation



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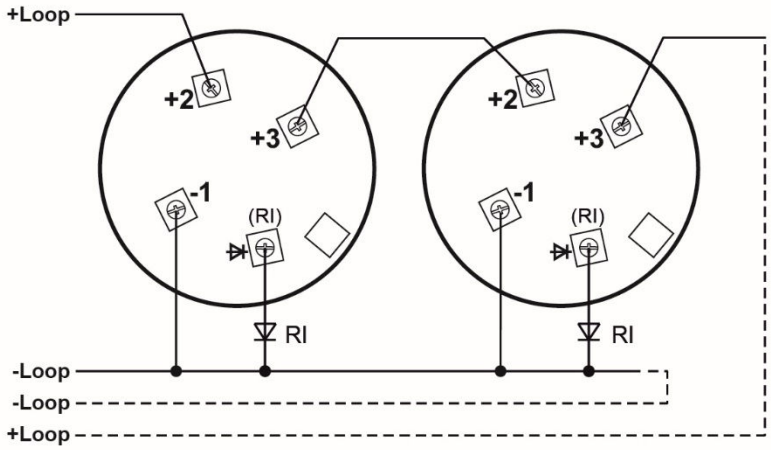
4 Connection Diagram

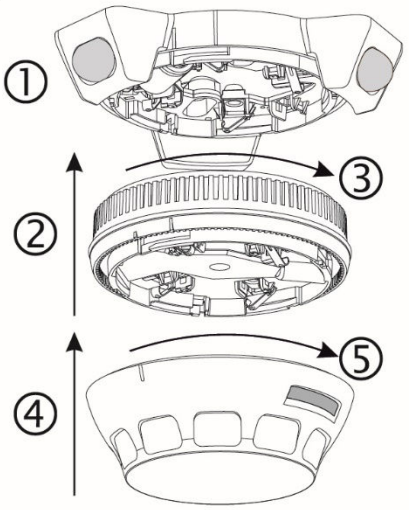
Attention: DO NOT CONNECT the earth terminal (⏚) of the Standard Base and the Standard Base High Profile to the loop line!



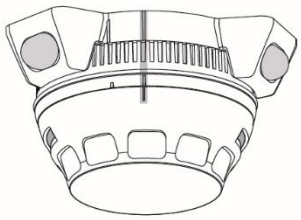
Legend
RI - Remote Indicator
+Loop - Positive loop wire
-Loop - Negative loop wire

Mounting of Esmi Impresia detectors to Base Base Sounders, connecting built-in short circuit isolators in detectors and sounders

5 Installation



At the end of installation, the long marks on the Standard Base and the Base Base Sounder must be aligned with the single mark on the mounted detector.



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