Installation Quick Guide

Esmi Fire

O2087GB4

Esmi Impresia Base Base Sounder Beacon

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 Beacon

The Esmi Impresia Base Base Sounder Beacon (FFS06741031) is an addressable sounder with strobe base and a 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 device 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 Beacon 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.

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

For more technical information visit www.se.com.

CE 24
1293
DoP No: DP23030
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
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Sweden

⚠ WARNING

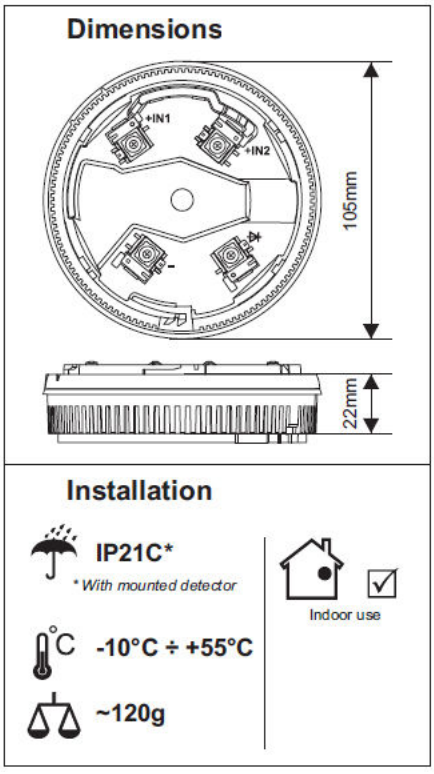
COMPROMISED FUNCTIONALITY

- Make sure that the setup where the device is installed meets the device specifications.
- Remove the sounder beacon 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 beacon 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
Frequency of the strobe flash..... 1 Hz
Number of tone types 32
Supported communication protocol ..... ELC
Relative humidity resistance ..... (93 ± 3)% @ +40°C
Material ..... SAN/transparent
* Esmi Impresia Base Base Sounder Beacon (FFS06741031)



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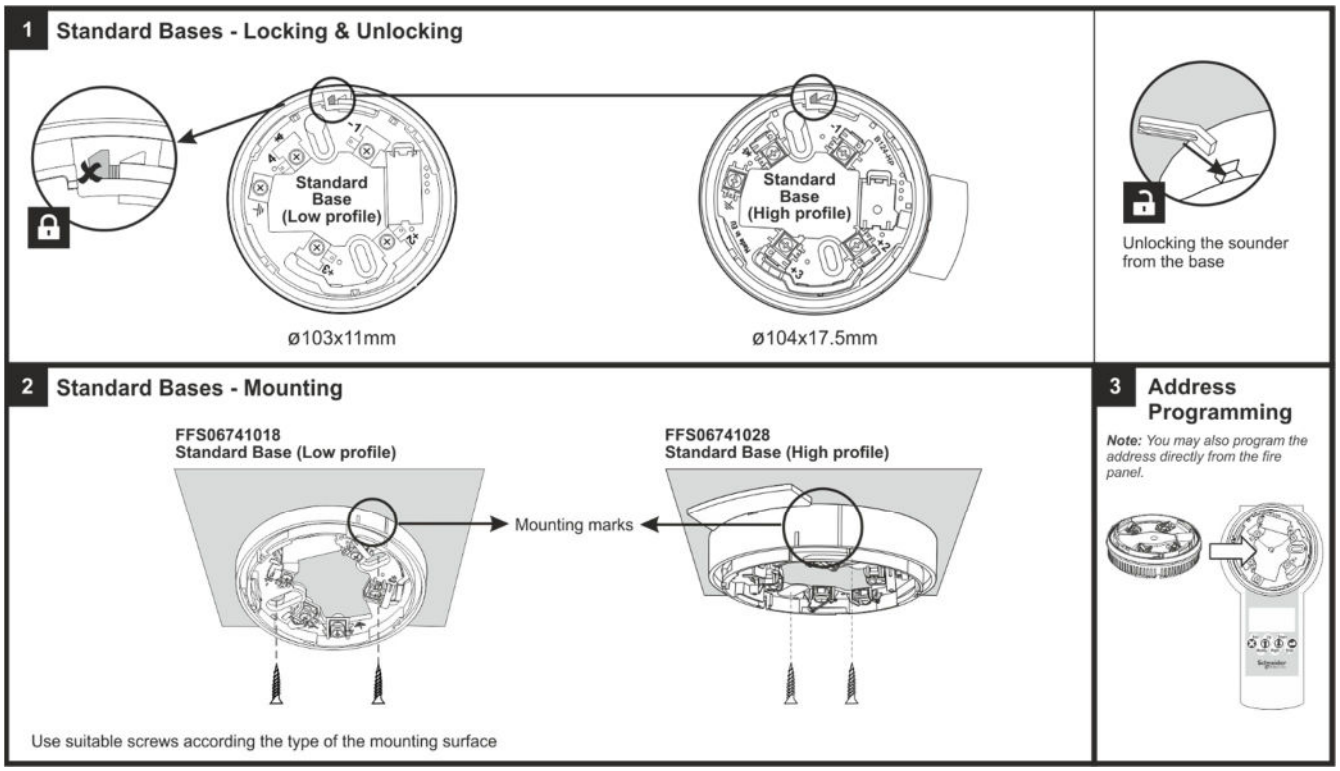
Isolator Module Technical Specifications

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

Installation



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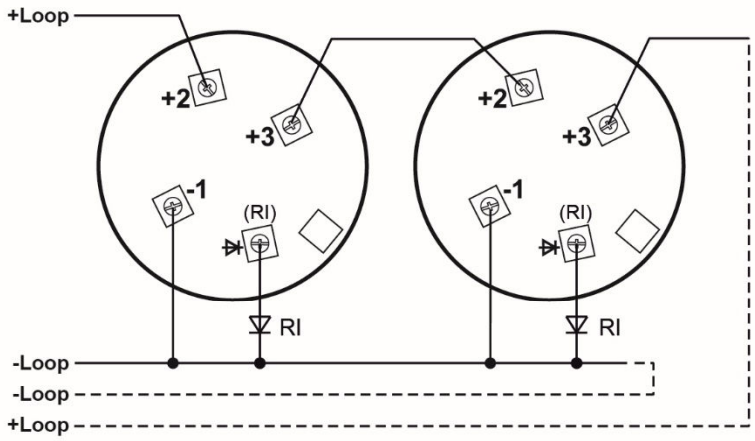
4 Connection Diagram

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

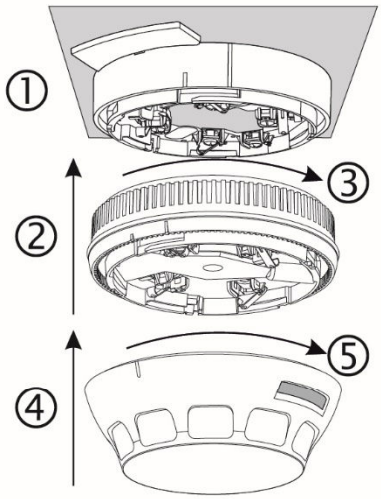


Legend

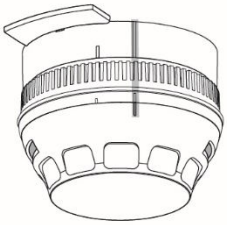
RI - Remote Indicator
+Loop - Positive loop wire
-Loop - Negative loop wire

Mounting of Esmi Impresia detectors to Base Base Sounder Beacons, connecting built-in short circuit isolators in detectors and beacons

5 Installation



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



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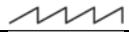
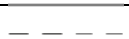
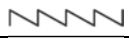
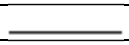
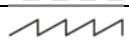
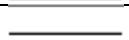
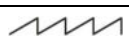
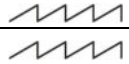
Tone	Tone Type	Tone Description/Application	High Level [dB @ 1m]	Low Level [dB @ 1m]
1		970Hz	88	83
2		800Hz/970Hz @ 2Hz	88	83
3		800Hz - 970Hz @ 1Hz	88	82
4		970Hz 1s OFF/1s ON	88	83
5		970Hz, 0.5s/ 630Hz, 0.5s	88	83
6		554Hz, 0.1s/ 440Hz, 0.4s (AFNOR NF S 32 001)	86	80
7		500 - 1200Hz, 3.5s/ 0.5s OFF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

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