

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 Red VAD Wall Mounted Sounder

Esmi Impresia Red VAD Wall Mounted Sounder (FFS06741012) is an addressable wall mounted sounder and strobe with a built-in isolator, designed for installing in addressable fire alarm systems with Esmi ELC loop controller supporting Schneider Electric communication protocol. The sounder is compatible with fire bases Esmi Impresia Standard Base (FFS06741018), Esmi Impresia Standard Base High Profile (FFS06741028) and Esmi Impresia Red IP65 Deep Base (FFS06741013) for wall mounting. EN 54-3 approved and for indoor and outdoor use.

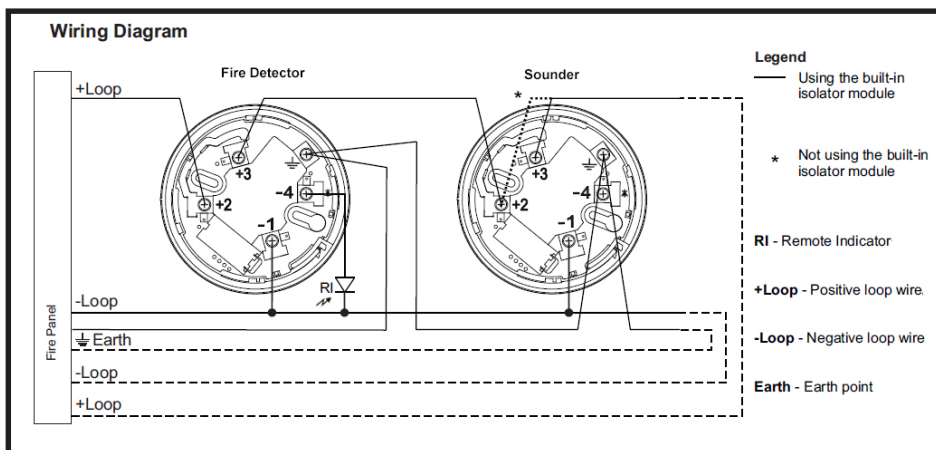
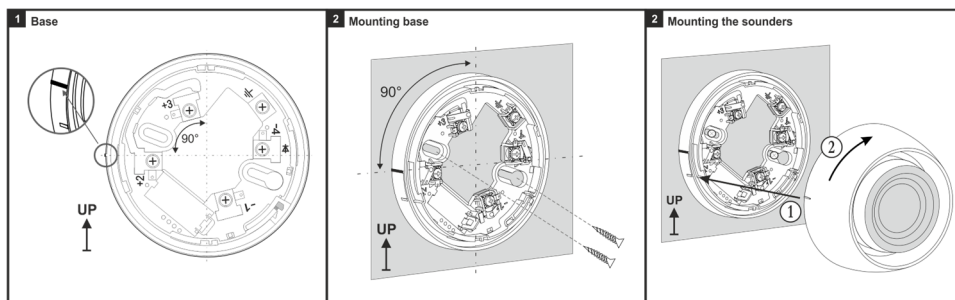
The address setting is done by the panel, QR code or handheld addressing device.
The address range is 1-250.

For more technical information visit www.se.com.

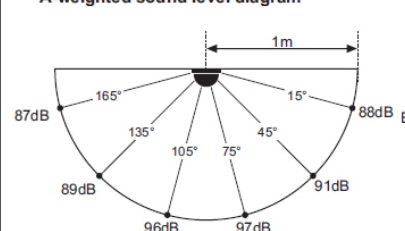
Installation Instructions

Note: Collect the QR code stickers from the devices if QR codes are used for addressing of the devices.

1. Follow the applicable local and national installation codes and regulations. Choose the proper place for installation of the device.
2. Turn power off the loop circuit before installing the mounted sounder.
3. Set the module address using programmer or directly from addressable fire panel.
4. Mount the fire base on the wall of the protected premises using fixings according the mounting surface.
5. Connect the base to the fire panel using the wiring diagram.
6. Insert the device into the base and rotate clockwise until it drops into place - the short mark on the base fits with that on the sounder body. Continue to rotate the sounder until its mark coincides with the long mark on the base - a click is heard.
7. Program the device parameters.
8. Test the sounder for proper operation.



A-weighted sound level diagram



Installation

IP21C (EN54-3)*
IP65 (EN60529)**

-10°C ÷ +50°C

~183g

* When used with Esmi Impresia Standard Base
** When used with Esmi Impresia IP65 Red Deep Base

Visual Alarm Device (VAD)
EN54-23



CE 21
1293

DOP: DP20028

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

EN 54-23:2010

Fire alarm devices - Visual alarm device (VAD) intended for use in and around buildings

Sounder Type: A

Coverage volume: W-2.4-6 m

Schneider Electric Buildings AB
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22362 Lund
Sweden

Isolator Module Technical Specifications

Maximum line voltage (V_{max})	32V
Nominal line voltage (V_{nom})	28V
Minimum line voltage (V_{min})	16V
Maximum voltage at which the device isolates ($V_{so\ max}$)*	7.5V
Minimum voltage at which the device isolates ($V_{so\ min}$)*	5.9V
Maximum voltage at which the device reconnects ($V_{sc\ max}$)**	6.7V
Minimum voltage at which the device reconnects ($V_{sc\ min}$)**	5V
Maximum rated continuous current with the switch closed ($I_c\ max$)	0.7A
Maximum rated switching current (e.g. under short circuit) ($I_s\ max$)	1.8A
Maximum leakage current with the switch open (isolated state) ($I_l\ max$)	16mA
Maximum series impedance with the switch closed ($Z_c\ max$)	
0.12Ω@28VDC and 0.15Ω@16VDC	

* Note: Switches from closed to open

** Note: Switches from open to closed

Essential characteristics	Performance
Performance under fire conditions	Pass
Operational reliability	Pass
Duration of operation	Pass
Provision for external conductors	Pass
Flammability of materials	Pass
Enclosure protection	Pass
Access	Pass
Manufacturer's adjustments	Pass
On-site adjustments of behavior	Pass
Requirements for software controlled devices	Pass
Coverage volume	Pass
Variation of light output	Pass
Min. and max. light intensity	Pass
Light color	White
Light temporal pattern/ frequency of flashing	Pass
Marking and data	Pass
Synchronization	Pass
Durability:	
Temperature resistance	Pass
Humidity resistance	Pass
Shock and vibration resistance	Pass
Corrosion resistance	Pass
Resistance to ingress	Pass
Electrical stability	Pass

Technical Specifications

Operating Voltage Range	16 - 32VDC (Nom. 27VDC)
Nominal consumption (stand-by)	<500μA@27VDC
Maximal consumption (main tone type 27):	
- low volume level, sound only	<5mA
- low volume level, sound and strobe	<12mA
- high volume level, sound only	<16.5mA
- high volume level, sound and strobe	<22mA
Maximal consumption (other tone types):	
- low volume level, sound only	<4mA
- low volume level, sound and strobe	<11mA
- high volume level, sound only	<10mA
- high volume level, sound and strobe	<16.5mA
Consumption with activated isolator:	<15mA
Power volume (main tone type 27):	
- low volume	~ 80dB (A) ± 6dB @ 1m
- high volume*	~ 92dB (A) ± 5dB @ 1m
Power volume (other tone types):	
- low volume	75-85dB ± 3dB @ 1m
- high volume	80-95dB ± 3dB @ 1m
Number of tone types	32
Wire Gauge for terminals	2.5mm ²
Relative humidity resistance	(93 ± 3)% @ 40°C
Color	white transparent
Material	SAN
Dimensions	116x55mm
Supported communication protocol	Esmi ELC

Tone	Tone Type	Tone Description/Application	High Level [dB @ 1m]	Low Level [dB @ 1m]
1		970Hz	87	84
2		800Hz/970Hz @ 2Hz	89	84
3		800Hz - 970Hz @ 1Hz	91	87
4		970Hz 1s ON/1s OFF	88	85
5		970Hz, 0.5s/ 630Hz, 0.5s	91	88
6		554Hz, 0.1s/ 440Hz, 0.4s (AFNOR NF 5 32 001)	88	84
7		500 - 1200Hz, 3.5s/ 0.5s OFF (NEN 2575:2000)	95	89
8		420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	91	88
9		500 - 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (AS1670 Evacuation)	92	88
10		550Hz/440Hz @ 0.5Hz	90	88
11		970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201)	89	84
12		2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201)	82	75
13		1200Hz - 500Hz @ 1Hz (DIN 33 404)	91	89
14		400Hz	91	88
15		550Hz, 0.7s/1000Hz, 0.33s	91	87
16		1500Hz - 2700Hz @ 3Hz	92	85
17		750Hz	91	88
18		2400Hz	84	77
19		660Hz	88	84
20		660Hz 1.8s ON/1.8s OFF	88	86
21		660Hz 0.15s ON/0.15s OFF	89	86
22		510Hz, 0.25s/ 610Hz, 0.25s	94	91
23		800/1000Hz 0.5s each (1Hz)	90	87
24		250Hz - 1200Hz @ 12Hz	89	86
25		500Hz - 1200Hz @ 0.33Hz	90	88
26		2400Hz - 2900Hz @ 9Hz	88	82
27		2400Hz - 2900Hz @ 3Hz 2500Hz (main sound frequency)	92	83
28		800Hz - 970Hz @ 100Hz	91	88
29		800Hz - 970Hz @ 9Hz	92	89
30		800Hz - 970Hz @ 3Hz	91	88
31		800Hz, 0.25s ON/1s OFF	89	87
32		600Hz - 1100Hz, 2.6s/0.4s OFF	93	89