Specification

Operating temperature	-10 to +50°C
Storage temperature	-20 to +60°C
Humidity	0% to 95% non-condensing
Supply	3x AA Alkaline (Panasonic LR6AD Powerline / Varta 4006 Industrial) 3x C Alkaline (Panasonic LR14AD Powerline / Varta 4014 Industrial)
Strobe element voltage range	17-60V DC
Strobe element max current	45mA @ 1Hz flash rate
Flash rate	0.5Hz/1Hz (selectable)
Sounder output	94-97dB(A) @ 1m (as dispatched) Low setting reduces volume by 8dB
IP rating	IP54
Operating frequencies	868 MHz
Output transmitter power	Variable 0-14 dBm
Dimensions	120mm (Ø) 125mm (D)
Weight	0.65kg

Regulatory information

Manufacturer	EMS Ltd. Technology House, Sea Street, Herne Bay, Kent, CT6 8JZ, United Kingdom
Year of manufacture	See serial number label inside unit
Certification	CE14
Certification body	0359
CPR certificate	0359-CPR-00294
Approved to	EN54-3 EN54-23 EN54-25
Application	Intended for use in fire detection and fire alarm systems in and around buildings. Indoor use only.
European Union directives	EMS declares that the radio equipment type Ziton Wireless Sounder Beacon is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.utcfssecurityproducts.eu/dop/
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see www.recyclethis.info Dispose of your batteries in an environmentally friendly manner according to your local regulations.

Contact information

For contact information, see www.utcfireandsecurity.com

Ziton Wireless Sounder / Beacon Installation

General

The Ziton wireless sounder / beacon is available under the following part numbers:

PART NO	VARIANT TYPE
ZRW466-3	Ziton Wireless Red Wall Sounder Beacon (Red Flash)
ZRC466-3	Ziton Wireless Red Ceiling Sounder Beacon (Red Flash)
ZRW466-3W	Ziton Wireless White Wall Sounder Beacon (Red Flash)
ZRC466-3W	Ziton Wireless White Ceiling Sounder Beacon (Red Flash)
ZRW466-3C	Ziton Wireless Red Wall Sounder Beacon (Clear Flash)
ZRC466-3C	Ziton Wireless Red Ceiling Sounder Beacon (Clear Flash)
ZRW466-3WC	Ziton Wireless White Wall Sounder Beacon (Clear Flash)
ZRC466-3WC	Ziton Wireless White Ceiling Sounder Beacon (Clear Flash)

The address of the unit is set when programming the device to the system (see programming manual for details). The installation must conform to BS5839:Part 1 (or applicable local codes).

The Ziton wireless sounder beacon is available for either ceiling or wall mounting. Care must be taken to ensure the correct type strobe is used and that the device is installed in its correct orientation whilst providing adequate coverage. The individual device coverage is as follows:

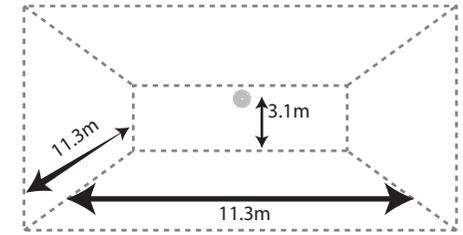## Ceiling mounted Ziton sounder beacon

The Ziton ceiling mounted sounder beacon devices have an EN54-23 approved coverage pattern of C-3-15. Therefore each device can be mounted up to 3m high and provide a 15m cylinder diameter coverage, which can cover a 10.6m x 10.6m square room with a single device.
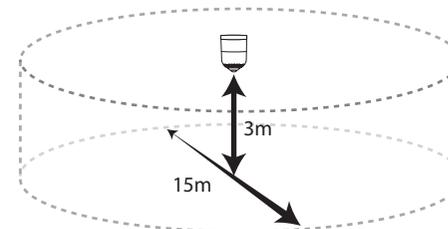
EN54-23 Coverage: C-3-15

Wall mounted Ziton sounder beacon

The Ziton wall mounted Sounder Beacon devices have an EN54-23 approved coverage pattern of W-3.1-11.3 Each single device can be mounted up to 3.1m high and can cover an 11.3m x 11.3m square room with a single device.

EN54-23 Coverage: W-3.1-11.3

Installation of Ziton sounder / beacon

Ensure that all Ziton sounders / beacons are sited in accordance with the survey and design details.

Remove the wall mounting plate by turning it counter clockwise. This dis-assembles the mounting plate from the wireless module and head. The mounting plate will now be available for fixing to the wall.

Fix the mounting plate to the wall using suitable fixings and fasteners. A minimum of two mounting holes must be used. (See Figure 1)

It is important that fastener heads are flush or sub-flush with the internal surface of the ceiling mount to avoid the risk of damaging the battery PCB.

To ensure correct operation, connect the power jumper across the PIN header on the battery PCB. The battery PCB will be exposed upon the removal of the battery cover. (See Figure 2)

Please see commissioning manual for log on procedure details.
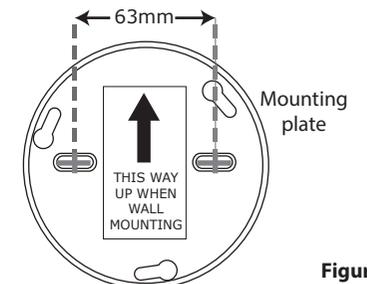

THIS WAY UP WHEN WALL MOUNTING
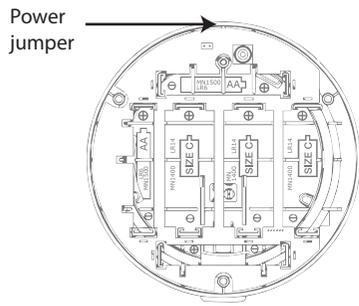
Mounting plate

Figure 1

Power jumper

Figure 2

Audio self test feature

An audio self test feature has also been incorporated into the wireless module. This feature can be enabled for each of the sounders primary and secondary tones (tones 1 and 2) using the corresponding number on a 2 way switch. The switch location is shown in Figure 3. When enabled the unit carries out tests when operated, by checking the actual sound output. If no sound is detected within 10 seconds of the sounder base being switched on, a fault is
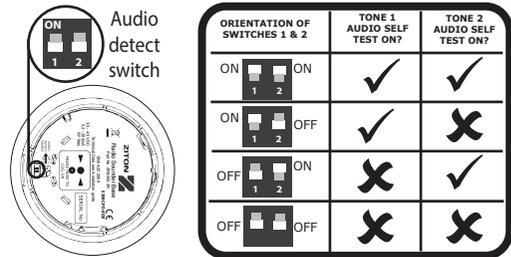
ORIENTATION OF SWITCHES 1 & 2	TONE 1 AUDIO SELF TEST ON?	TONE 2 AUDIO SELF TEST ON?
ON / ON	✓	✓
ON / OFF	✓	✗
OFF / ON	✗	✓
OFF / OFF	✗	✗

Audio detect switch

Figure 3

Sounder / strobe configuration

The sounder tone pattern and volume plus the beacon flash rate can be configured using the 7 way dipswitch on the bottom of the sounder beacon head.
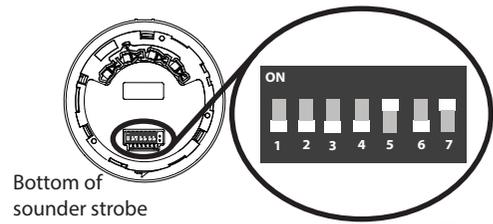
The location of the dip switches is shown in Figure 4.

Bottom of sounder strobe head element

Figure 4

Switches 1-5 determine the Sounder Tone. See Sounder tone table for available tones.

Switch 6 determines the sounder volume and switch 7 sets the Strobes flash rate. See figure 5

As default the units are supplied with switch 5 and 7 on, selecting 800Hz/970Hz @ 2Hz sounder tone, with high sounder volume and a 1Hz flash rate.
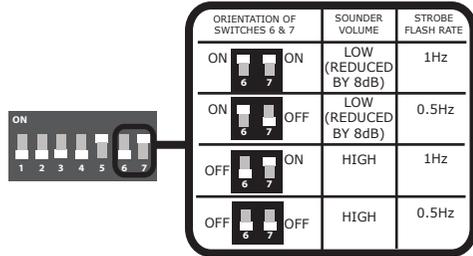
ORIENTATION OF SWITCHES 6 & 7	SOUNDER VOLUME	STROBE FLASH RATE
ON / ON (6 / 7)	LOW (REDUCED BY 8dB)	1Hz
ON / OFF (6 / 7)	LOW (REDUCED BY 8dB)	0.5Hz
OFF / ON (6 / 7)	HIGH	1Hz
OFF / OFF (6 / 7)	HIGH	0.5Hz

Figure 5

Re-assembling the device

To re-assemble the unit, place the complete wireless module and head section into the fixed wall mount (ensuring that locating lugs line up) and turn clockwise to achieve a positive location.

Ensure that the tamper switch operates correctly. The switch should make contact with the wall mount plate.

Optional additional device locking

It is possible to lock the strobe head into the wireless base. The Allen key supplied with the Radio Hub and RCCs or Radio Loop Module, will be required once locked into place to unlock them.

Locking is possible by removing the cut out section as shown in Figure 6.

To re-assemble the unit, place the head section into the wireless base ensure that locating lugs line up and turn clockwise to achieve a positive location.

To access the rear of the strobe head. Insert Allen key to depress the locking clip and turn strobe head counter clockwise to remove strobe head as shown in Figure 7.
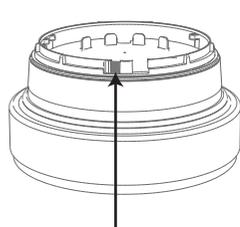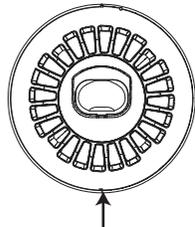
Cut out section (shaded area)
Figure 6

Allen key locking
Figure 7

Sounder tone switch settings

TONE	TONE TYPE	TONE DESCRIPTION / APPLICATION	DIP SWITCH 1 - 2 - 3 - 4 - 5	2ND
1.		970Hz	O–O–O–O–O	18
2.		800Hz/970Hz @ 2Hz	O–O–O–O– |	1
3.		800Hz - 970Hz @ 1Hz	O–O–O– | –O	1
4.		970Hz 1s OFF / 1s ON	O–O–O– | – |	1
5.		970Hz, 0.5s / 630Hz, 0.5s	O–O– | –O–O	4
6.		554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)	O–O–O– | – |	1
7.		500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000)	O–O– | –O– |	1
8.		420Hz 0.625s ON / 0.625s OFF (Australia AS1670 Alert tone)	O–O– | – | – |	9
9.		500 - 1200Hz, 0.5s / 0.5s OFF x 3 / 1.5s OFF (AS1670 Evacuation)	O– | –O–O–O	1
10.		550Hz / 440Hz @ 0.5Hz	O– | –O–O– |	19
11.		970Hz, 0.5 ON / 0.5s OFF x 3 / 1.5s OFF (ISO 8201)	O– | –O– | –O	1
12.		2850Hz, 0.5s ON / 0.5s OFF x 3 / 1.5s OFF (ISO 8201)	O– | –O– | – |	1
13.		1200Hz - 500Hz @ 1Hz (DIN 33 404)	O– | – | –O–O	1
14.		400Hz	O– | – | –O– |	18
15.		550Hz, 0.7s / 1000Hz, 0.33s	O– | – | – | –O	1
16.		1500Hz - 2700Hz @ 3Hz	O– | – | – | – |	1
17.		750Hz	| –O–O–O–O	1
18.		2400Hz	| –O–O–O– |	1
19.		660Hz	| –O–O– | –O	18
20.		660Hz 1.8s ON / 1.8s OFF	| –O–O– | – |	19
21.		660Hz 0.15s ON / 0.15s OFF	| –O– | –O–O	19
22.		510Hz, 0.25s / 610Hz, 0.25s	| –O– | –O– |	1
23.		800 / 100Hz 0.5s each (1Hz)	| –O– | – | –O	1
24.		250Hz - 1200Hz @ 12Hz	| –O– | – | – |	1
25.		500 - 1200Hz @ 0.33Hz	| – | –O–O–O	1
26.		2400Hz - 2900Hz @ 9Hz	| – | –O–O– |	18
27.		2400Hz - 2900Hz @ 3Hz	| – | –O– | –O	18
28.		800Hz - 970Hz @100Hz	| – | –O– | – |	1
29.		800Hz - 970Hz @ 9Hz	| – | – | –O–O	1
30.		800Hz - 970Hz @ 3Hz	| – | – | –O– |	1
31.		800Hz, 0.25s ON / 1s OFF	| – | – | – | –O	1
32.		500Hz - 1200Hz, 3.75s / 0.25s OFF (AS2220)	| – | – | – | – |	8

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