Speci cation

Operating Temperature	-10 to +70°C (ambient)
Storage Temperature	0 to +35°C
Humidity	Up to 95% non-condensing
Supply	3 x AA (MN1500 LR6) and 3 x C (MN1400 LR14) Duracell alkaline batteries
Sounder Output	99dBA @ 1m (as dispatched)
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 Radio Fire & Security Systems Ltd. Technology House, Sea Street, Herne Bay, Kent, CT6 8JZ, United Kingdom
Year of manufacture	See serial number label inside unit
Certi cation	CE
Certi cation body	0359
CPD Certi cate	0359-CPD-0169 (base) 0359-CPD-0022 (element) 0359-CPD-0170 (element)
EN 54	EN54-3:2001 Alarm devices - sounder EN54-25:2008 Component using RF links for re detection and re alarm systems for buildings
Application	Indoor use only
European Union directives	1999/5/EC (R&TTE directive): Hereby EMS Radio Fire & Security Systems declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

2002/96/EC (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

Contact information

For contact information, see www.utc reandsecurity.com

ZITON

ZITON

Ziton Radio Sounder / Beacon Installation Guide

General

The Ziton radio sounder is available under the following part numbers:

PART NO	VARIANT TYPE
ZR455-3R	**Ziton red radio sounder**
ZR455-3W	**Ziton white radio sounder**
ZR455V-3RR	**Ziton red radio sounder with red beacon**
ZR455V-3RA	**Ziton red radio sounder with amber beacon**
ZR455V-3RC	**Ziton red radio sounder with clear beacon**
CE	**0359-CPD-0169 (base)** **0359-CPD-0022 (element)** **0359-CPD-0170 (element)**

EN54-3:2001 Alarm devices - sounder EN54-25:2008 Component using RF links for re detection and re alarm systems for buildings

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

Installation of Ziton sounder / beacon

Ensure that all sounders are sited in accordance with the survey and design details. The installation procedure for sounders and beacons is the same.

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

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

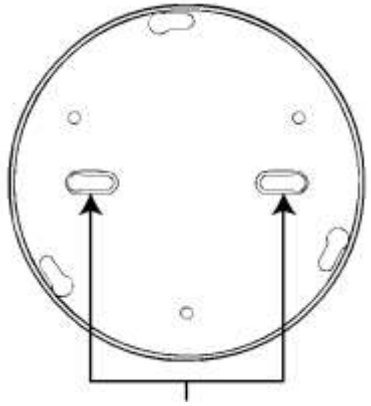
It is important that fastener heads are ush or sub-ush with the internal surface of the ceiling mount to avoid the risk of damaging the battery PCB.

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, and is shown below in Figure 2.

The unit is powered by 3 x Duracell AA MN1500 LR6 alkaline batteries and 3 x Duracell C MN1400 LR14 alkaline batteries. These are supplied tted.

Should batteries require replacement please ensure they are inserted to the correct polarity as shown below in Figure 2.

Batteries that have been removed must be disposed of in accordance with your country's relevant Waste Electrical and Electronic Equipment (W.E.E.E) regulations.



Wall Mounting Positions

Figure 1

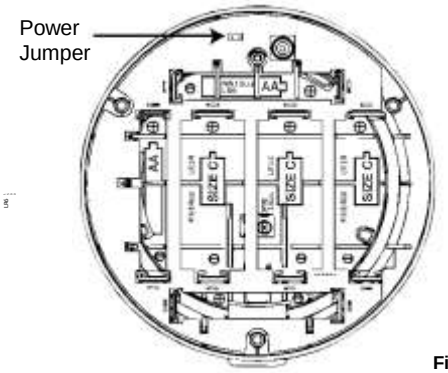


Figure 2

Allen key locking access hole

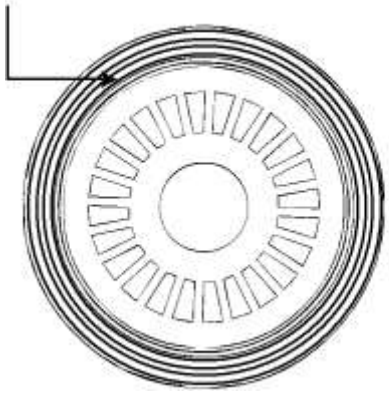


Figure 3

Audio Detect Switch

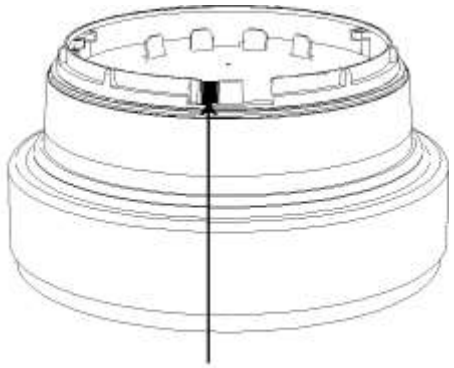
Figure 4

Please see commissioning manual for log on procedure details.

To reassemble the unit, place the complete radio module and head section into the xed 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.

The tone pattern of the sounder is selected using the 5 way dipswitch on the bottom of the sounder head. Refer to the table on Page 3 for details of the available tones and the switch settings required to select them. As default the units are supplied with switch 3 on, which selects 970Hz, 0.5s/630Hz, 0.5s (BS 5839-1:2002)



Cut out section (shaded area)

Figure 5

The sound output of the unit can also be reduced by adjusting the potentiometer on the bottom of the sounder head.

It is possible to lock the sounder head into the radio base. Locking is possible by removing the cut out section as shown in Figure 5 above.

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

To access the rear of the sounder head. Insert Allen key to depress the locking clip and turn sounder head counter clockwise to remove sounder head as shown in Figure 3.

An audio self test feature has also been incorporated into the sounder beacon base. This feature can be enabled for each of the sounder output stages 1 or 2 using the corresponding number on a 2 way switch. The switch location is shown previously in Figure 4. 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 indicated at the control panel. This feature should be disabled for a beacon only unit and stage 2 disabled for a sounder beacon unit.

Sounder tone switch settings

TONE	TONE TYPE	TONE DESCRIPTION / APPLICATION	DIP SWITCH	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.		500Hz - 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