



by Honeywell

Data and Installation instructions Zircon Mark II Combined Conventional Speech Sounder and Strobe Units



These instructions cover the following conventional units, which are suitable for installation in conventional fire alarm system:

	Speech only		Speech Sounder Strobe	
	Deep base	Shallow base	Deep base	Shallow base
White				
Red	ZF-IP-VP-R		ZF-IP-VP-ST-RR	

The low power **Conventional Voice Enhanced Sounder** and combined **Strobe** products provide audible and visual alarm signals for use with fire alarms, internal security alarms and other hazard warning systems operating over a voltage range of 10.8V – 28.8V DC.

The units are supplied with a standard speech messages and sound tones which are selectable at time of installation. Each product is supplied with a deep base (40mm) or shallow base (25mm) offering IP55C and IP31C ratings respectively.

In addition to the products covered in this leaflet there are Sounder, Sounder/Strobe and Strobe only variants available. For more information contact your supplier.

The product range incorporates innovative design features protected by Patents GB2388994, GB2388995 and GB2388916. The product design has also been registered.

Do's and Don'ts

Do's

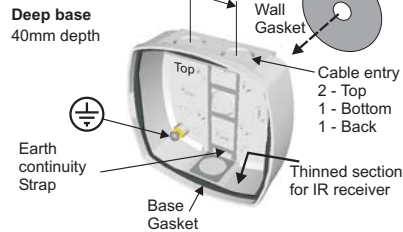
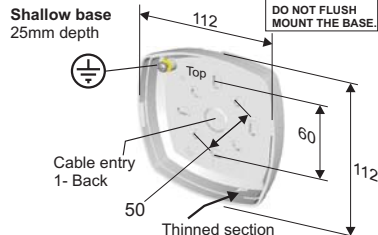
- Use correct method to open and close the unit
- Mount the unit in correct orientation with 'TOP' uppermost, to allow remote control operation
- Fit the **wall gasket** first when installing the deep base if IP55C protection is required
- Ensure the **transparent cover** is in place over the PCB
- Configure the switch SW1 for the desired speech, tone and strobe light output before closing the assembly
- Ensure the **earth continuity strap** is in place in the **deep base**

Don'ts

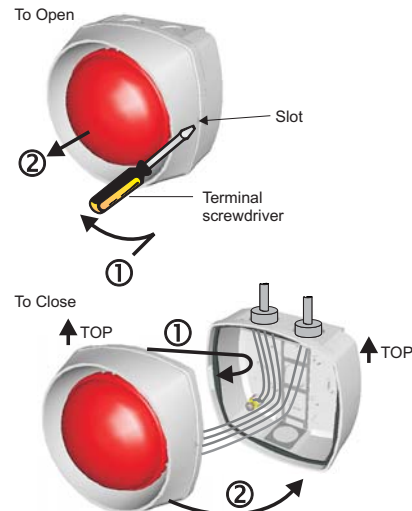
- Don't flush mount the base
- Don't have excessive incoming cable slack
- Don't locate unit such that the audible and visual outputs are obstructed
- Don't mount the unit above obstructions, such as shelves, that can prevent its operation with the IR remote control
- Don't paint the unit enclosure.

Note: Avoid operating the unit by fast pulsing the power to the unit.

Bases

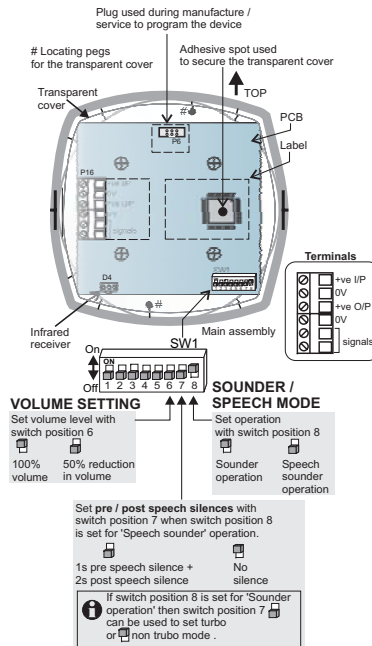


How to open and close the assembly



Installation

- Drill or knockout the required cable entry points on the **Base**.
- If using the deep base option and IP55C protection is required, then stick on the circular **wall gasket** on to the centre back of the **base**.
- Secure the Base to the wall whilst ensuring Top of the Base is in correct orientation.
- Terminate the cable at the entry point leaving no more than 10cm (4") tail wire length for connection.



- Ensure the **transparent cover** is in place over the **PCB**. Connect the wires to the terminal block, see **Wiring**.
- Select the required message and tone. See **Modes of operation** and **How to select messages and attention tones**.
- Close the **main assembly** to the base.
- If necessary you can reselect the volume and tone by making adjustment to the SW1 switch settings. As an alternative you can use a Remote control (Handi Link) to configure the product. Contact your supplier for further information on Remote control (Handi Link).

Note: When selecting volume level using a remote control the settings of switch SW1 will be superseded. If subsequently the settings of switch SW1 are changed then the settings made using the remote control are superseded.

Wiring

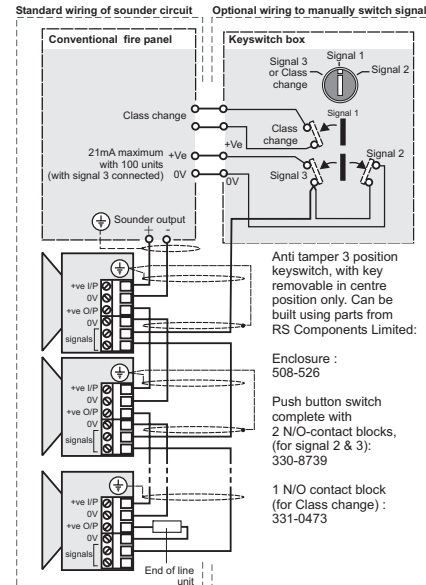
The speech message, tone and strobe outputs can be manually switched by wiring a keyswitch. The keyswitch box and contact sets can be purchased from supplier like RS Components Limited.

Note: Avoid operating the unit by fast pulsing the power to the unit. This type of pulsed operation will affect the speech message and strobe outputs.

For example with the arrangement shown below you can manually activate **tones**. By operating the keyswitch during an **alarm condition** it is possible to change tone to signal 2 or signal 3. With an optional contact set wired for class change application the keyswitch can be operated to output Signal 3 during **non alarm condition**. For this configuration we use the

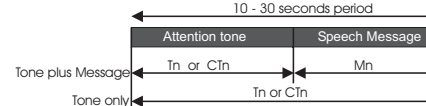


following switch settings:



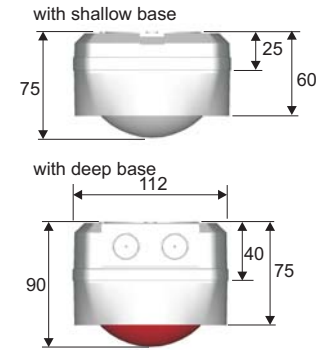
Methods of operation

A speech sounder strobe unit can output an attention tone followed by a speech message spanning over 10 to 30 seconds period that is automatically adjusted. The attention tone can be from a range of standard tones or complex tones with a minimum of 4 seconds duration. There are two methods of operation, **tone plus message (Speech Sounder)** or **tone only (Sounder)**.



- Tn - Standard tone
- Ctn - Complex tone
- Mn - Speech message
- (n - message / tone / complex tone - number see tables over)

Technical data



Note: If you have a speech/sounder only product then ignore the strobe information given.

Messages, Tones and Strobe flash rate	see tables
Strobe light output with red lens	equivalent to 3W Xenon flasher
Typical current	Signal 2 without strobe : 3.5mA at 24V Signal 2 with strobe : 9.5mA at 24V
Operating voltage	range 10.8V to 28.8V
Maximum reverse voltage (used for monitoring sounders)	30V <1μA
Terminal size	2.5mm ² maximum
IP rating	with deep base IP55C with shallow base IP31C
Enclosure colour	Pure White RAL9010 and Signal Red RAL3001 (Standard Strobe option has a red translucent cover)
Enclosure material	Flame retardant ABS (Strobe cover is polycarbonate)
Weight	0.3Kg (approximate)
Operating temperature	-10°C to 50°C
Storage temperature	-20°C to 70°C
Relative humidity (non condensing)	up to 90%
IR operating distance (used for selecting volume level and tone/speech messages)	3m
Message and attention Tone period	10-30 seconds

Note: The units when installed on the same circuit will provide sound and strobe light synchronisation better than +/-30ms over 20 minutes.

