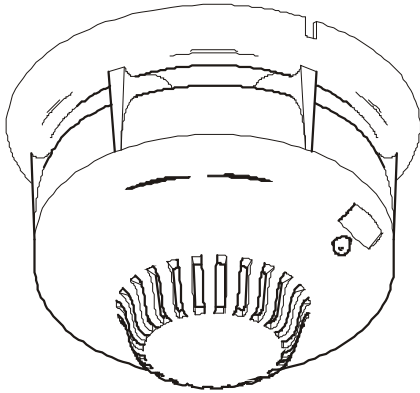


# ZP755BV-4 Addressable Base Sounder with Visual Indicator Installation Sheet



## Description

The ZP755BV-4 is an addressable base sounder with visual indicator, designed for use in Ziton analogue addressable fire detection and alarm systems.

**Note:** The visual indicator of this product does not comply with EN 54-23 and must not be used in fire alarm installations where fire notification beacons are required.

The sounder includes a volume control, an address-setting switch, programmable tone settings, and a pair of jumpers to select the operating power — from the analogue addressable loop or an external supply. The device plugs into a base that is purchased separately. See Table 1 for a list of model numbers.

**Table 1: Models**

| Number                 | Description  |
|------------------------|--|
| Sounder,<br>ZP755BV-4P | Base sounder/Visual indicator, Polar white                     |
| Cover,<br>ZP755-COV-P  | Cover for ZP755B Base sounder<br>with no detector, Polar white |
| ZP755-COV-R            | Cover for ZP755B Base sounder<br>with no detector, Red         |
| Base,<br>SPB-2P        | Base, Polar white  |

## Installation

### To install the device:

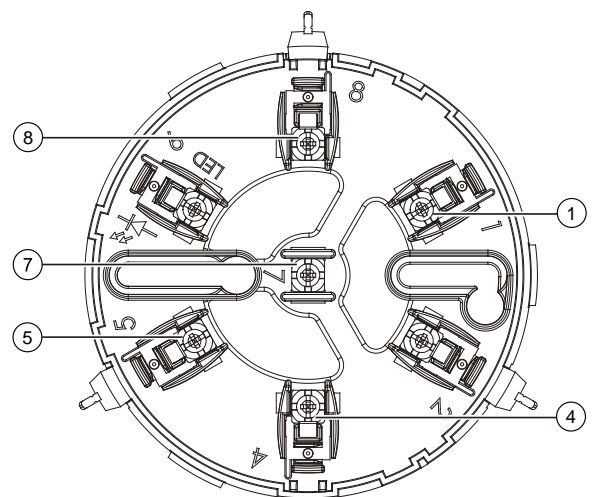
1. Wire the base
2. Set the operating power
3. Set the address
4. Set the operating mode
5. Set the tone
6. Set the volume
7. Mount the sounder onto the base

The details of each step are given below

### Wiring the base

Connect the loop wiring for the base as shown in Figure 1. There is no wiring between the sounder and base.

**Figure 1: Loop wiring for the base**

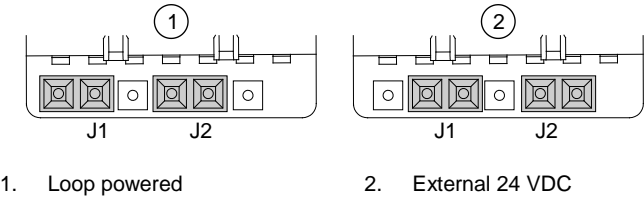


1. Ext. 24 VDC+ IN/OUT
2. Ext. 24 VDC ground IN/OUT
3. Loop+ IN/OUT
4. Loop - IN/OUT
5. Shield
6. Loop - IN/OUT
7. Shield
8. Loop - IN/OUT

### Setting the operating power

The sounder includes a pair of power selection jumpers, J1 and J2. To select the source of the sounder operating power, position the jumpers as shown in Figure 2.

Figure 2: Power-selection jumper configuration



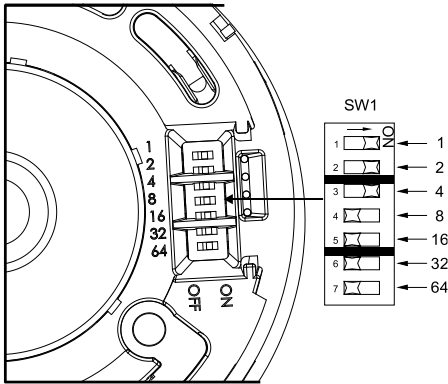
**Note:** When using an external power supply, use only one that is CE and EN 54-4 compliant to power all the sounders on the same loop. Ensure connection to number 1 and number 4 in addition to the loop wiring number 5 and number 8.

Setting the address

The sounder includes a seven-segment DIP switch (SW1) for assigning device addresses. Each switch segment has a decimal value as shown in Figure 3. The address is the sum of all the switch segments in the ON position. The switch is used to set the device address in binary code. The switch may be set to represent any address from 1 to 127.

For example, to select a device address of 007, set SW1-1, SW1-2, and SW1-3 to the ON position and the remaining switch segments to the OFF position.

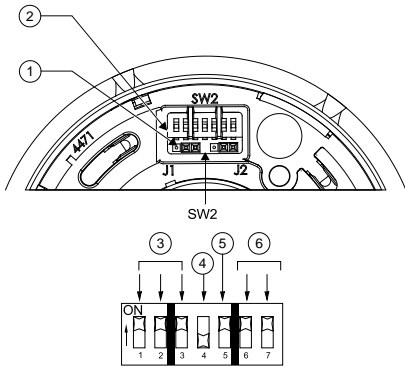
Figure 3: Address switch setting



Mode, tone, and volume settings

The sounder includes a seven-segment DIP switch (SW2) to select the operating mode, tone, and volume. See Figure 4.

Figure 4: Mode of Operation switch settings



- 1. Power selection jumpers
- 2. SW2 configuration switch
- 3. Tone
- 4. Addressing mode
- 5. Visual indicator operating mode
- 6. Volume

Setting the addressing mode

Configure the base sounder to operate with or without a detector at the same address as shown in Table 2.

Table 2: Setting address mode

| Switch | Setting |   |
|--------|---------|---|
| SW2-4  | OFF     | The sounder is stand-alone with a unique loop address not used by another detector.                   |
| SW2-4  | ON      | The sounder shares the address with a detector to expand the number of devices supported by the loop. |

Configure the base sounder to enable or disable the visual indicator as shown in Table 3.

Table 3: Setting Visual Indicator operating mode

| Switch | Setting |   |
|--------|---------|---|
| SW2-5  | ON      | Enable the visual indicator.                                    |
| SW2-5  | OFF     | Disable the visual indicator. Not recommended with Silent tone. |

Setting the volume

Use SW2-6 and SW2-7 to set the volume. Level 1 is the lowest volume setting, and level 4 is the highest as shown in Table 4. Refer also to the measured anechoic sound levels in Figure 7.

Table 4: Volume settings

| 00 – Level 1             | 10 – Level 2             | 01 – Level 3             | 11 – Level 4         |
|--------------------------|--------------------------|--------------------------|----------------------|
|                          |                          |                          |                      |
| Average dBA measurement  |                          |                          |                      |
| 3 dBA less than level 2. | 3 dBA less than level 3. | 3 dBA less than level 4. | Certified tones [1]. |

[1] UK-continuous, UK intermittent, UK two-tone are EN 54-3 compliant.

Setting the tone

The control panel can operate the sounder in two different pre-programmed tones, by selecting SW2-1, SW2-2, and SW2-3. Refer to Table 5 Tone settings.

**Note:** Two additional tones are available, the Class change and the Visual indicator only tone. However, these tones may not be available for legacy control panels. Please refer to the configuration options of your control panel to confirm tone availability.

**Table 5: Tone settings**

| Device mode | SW2 switch setting -1-2-3 | Primary warning  | Secondary evacuation  | Attention (nonfire) |
|-------------|---------------------------|------------------|-----------------------|---------------------|
| ZP755       | <b>0</b>                  | UK intermittent  | UK continuous         | Class change        |
| ZP755       | <b>1</b>                  | UK continuous    | UK two-tone           | Class change        |
| ZP755       | <b>2</b>                  | UK two-tone      | UK intermittent       | Class change        |
| ZP755       | <b>3</b>                  | Australian whoop | Australian alert      | Class change        |
| ZP755       | <b>4</b>                  | Swedish tone     | Dutch slow whoop      | Class change        |
| ZP755       | <b>5</b>                  | ISO8201          | French two-tone       | Class change        |
| ZP755       | <b>6</b>                  | German           | Visual indicator only | Class change        |
| ZP754       | <b>7</b>                  | UK intermittent  | UK continuous         | Class change        |

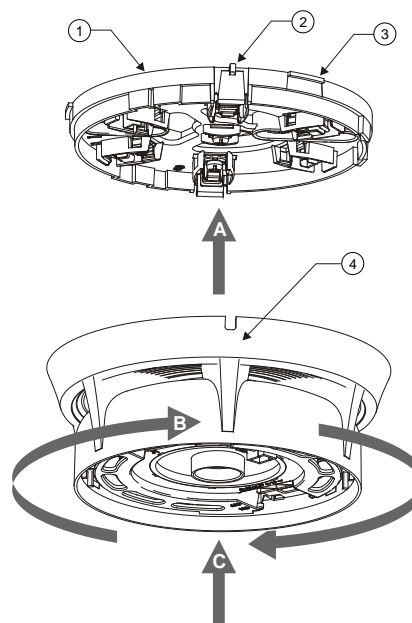
**Table 6: Tones**

| Tone name             | Description                       | Freq (Hz)              | Cycle time  |
|-----------------------|-----------------------------------|------------------------|---|
| UK continuous [1]     | Continuous (UK)                   | 980                    | Continuous  |
| UK intermittent [1]   | Intermittent fast 0.5 s (UK)      | 980                    | 1s (1 Hz) 0.5 s on, 0.5 s off                     |
| UK two-tone [1]       | Two-tone (UK)                     | 980<br>670             | 0.5 s tone 1<br>0.5 s tone 2                      |
| Australian whoop      | Australian slow whoop ascending   | 500 to 980             | 4 s   |
| Australian alert [2]  | Australian alert ISO7731          | 440                    | 0.55 s on, 0.55 s off ± 10%                       |
| Swedish tone          | Swedish fast pulse                | 670                    | 0.33 – 0.55 s (3-4 Hz)<br>Pulse ratio >0.35 < 0.7 |
| Dutch slow whoop      | Dutch slow whoop ascending        | 500 to 1200            | 4s<br>3.5 s on 0.5 s off                          |
| ISO8201               | Temporal ISO8201 3 pulse and wait | 980                    | 4 s<br>0.5 s on/0.5 s off<br>1.5 s wait           |
| French two tone       | French two-tone                   | 554<br>440             | 90-110ms<br>380-420ms<br>= 500 ms ± 5%            |
| German                | German fast whoop descending      | 1200 to 500            | 1 s<br>no "off"                                   |
| Class Change          | 3 tones and wait                  | 1000,<br>1200,<br>1500 | 4s  |
| Visual Indicator only | Silent and visual indicator only  |                        |   |

[1] The tones UK-continuous, UK-intermittent, and UK-two-tone are EN 54-3 compliant.

[2] ISO7731.

**Figure 5: Mounting**



- |                     |                        |
|---------------------|------------------------|
| 1. Base             | 3. Release/lock catch  |
| 2. Release aid (3X) | 4. Addressable sounder |

### Mounting the sounder

Align the addressable sounder to the base. Push up (A) and turn the sounder until it clicks into place (B). Push the sounder up once more to engage (C). Refer to Figure 5.

To remove the sounder from the base, the three release aid tabs must be depressed, and then the sounder can be detached.

Sounders per loop

The sounder can be powered directly from the loop of Ziton control panels. Use Table 5 Tone settings, in conjunction with Figure 6, to determine the quantity of detectors and sounders that can be connected to a two-core shielded loop when loop powered.

Figure 6: Detector/sounders per loop

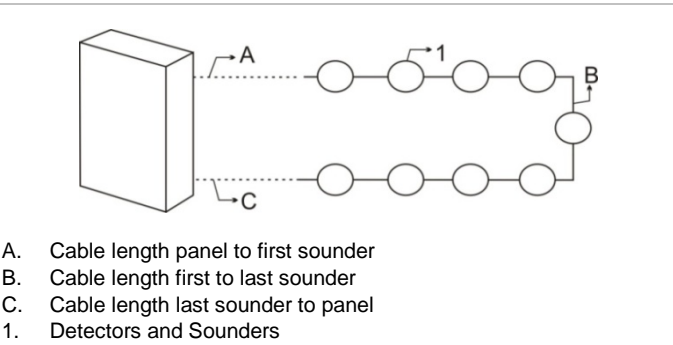


Table 7: Maximum detectors and sounders per loop

| A     | B     | C     | Quantity allowed [1]   |
|-------|-------|-------|--|
| 10 m  | 980 m | 10 m  | 60 detectors and 35 sounders<br>90 detectors and 30 sounders |
| 100 m | 800 m | 100 m | 50 detectors and 35 sounders<br>90 detectors and 30 sounders |
| 200 m | 600 m | 200 m | 40 detectors and 35 sounders<br>90 detectors and 30 sounders |
| 300 m | 400 m | 300 m | 40 detectors and 30 sounders<br>90 detectors and 25 sounders |

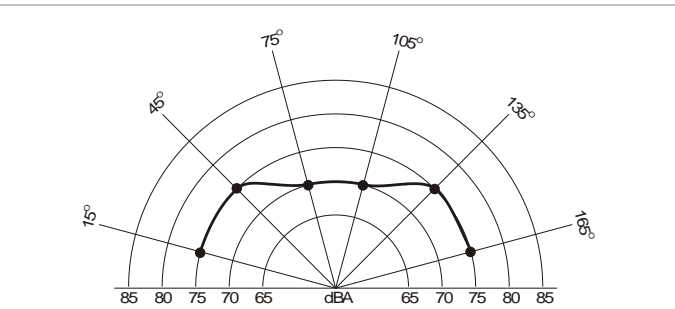
[1] Using a two-core shielded loop of 1000 meters cable size 1.5 mm²

Specifications

|  |  |
|--|--|
| Operating voltage                                |  |
| External supply                                  | 18 to 30 VDC   |
| Loop supply, ZP protocol                         | 19.5 to 20.5 V pulsed, max. 4 V line loss                    |
| Current (line powered)                           |  |
| Quiescent (RMS)                                  | 500 µA   |
| Alarm (RMS)                                      | 6 mA   |
| Alarm (excluding device address)                 | 14 mA max.   |
| Alarm (at device address)                        | 14 mA max.   |
| Current (externally powered)                     |  |
| Quiescent (RMS)                                  | 470 µA   |
| Alarm (RMS)                                      | 500 µA   |
| Maximum number                                   | 35 per 1 km loop (subject to cable size and sounder spacing) |
| Strobe   |  |
| Frequency  | Flash rate 1.1 seconds                                       |
| Light output                                     | Less than 1J xenon element                                   |
| Tones  |  |
| See Table 5 Tone settings.<br>See Table 6 Tones. |  |
| Sound distribution                               |  |
| Wide   |  |
| Measured anechoic sound levels                   |  |
| See Figure 7                                     |  |
| Monitoring                                       |  |
| Operating power level                            | Tested continuously  |
| Sound output level                               | Self test facility   |
| Compatibility                                    |  |
| Ziton analogue addressable systems               |  |
| Addressing method                                |  |
| 7-segment DIP switch                             |  |
| Mounting   |  |
| Surface, with base                               |  |
| Wiring   |  |
| Two-core loop                                    |  |

|                       |                          |
|-----------------------|--------------------------|
| Construction          |                          |
| Material              | Moulded thermoplastic    |
| Weight                | 156 g                    |
| Dimensions (Ø x D)    | 127 x 47 mm incl. base   |
| Operating environment |                          |
| Temperature           | -10 to +60°C             |
| Relative humidity     | 10 to 95%, noncondensing |
| Storage temperature   |                          |
| -20 to +70°C          |                          |


Figure 7: Measured anechoic sound levels



**Note:** These measurements correspond to the highest level for the EN 54-3 compliant tones of UK-continuous, UK intermittent, and UK-two-tone.

Regulatory information

This section includes both regulatory information and a summary on the declared performance according to the Construction Products Regulation 305/2011. For detailed information refer to the product Declaration of Performance.

|                                   |   |
|-----------------------------------|---|
| Certification                     |   |
| Certification body                | 0370  |
| Declaration of Performance number | 360-5202-0199   |
| Year of first CE marking          | 14  |
| Product Identification            | ZP755BV-4P  |
| Intended use                      | See DoP point 3   |
| Essential characteristics         | See DoP point 9   |
| Manufacturer                      | Gulf Security Technology Co.,Ltd<br>80, Changjiang East Road,<br>QETDZ, Qinhuangdao, Hebei Province, China 066004<br><br>Authorized EU manufacturing representative:<br>UTC Fire & Security B.V.<br>Kelvinstraat 7, 6003 DH Weert, Netherlands  |
| European Union directives         | 1999/5/EC (R&TTE directive): Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.<br><br><br>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 the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: <a href="http://www.recyclethis.info">www.recyclethis.info</a> . |

Contact information

For contact information, see [www.utcssecurityproducts.eu](http://www.utcssecurityproducts.eu).