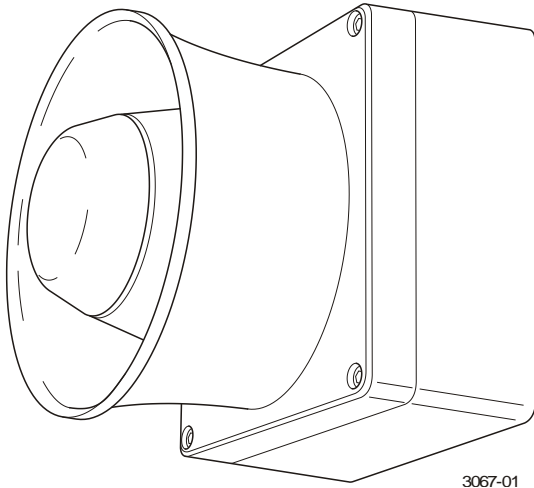


ZP755WV-2R Addressable Weatherproof Sounder/Visual Indicator Installation Sheet



Description

The ZP755WV-2R is an addressable, weatherproof sounder/visual indicator, designed for use on Ziton analogue addressable fire detection and alarm systems. The sounder is rated for outdoor, wet applications. It provides both audible and visible warnings from a single, addressable, loop-wired unit.

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.

Installation

To install the device;

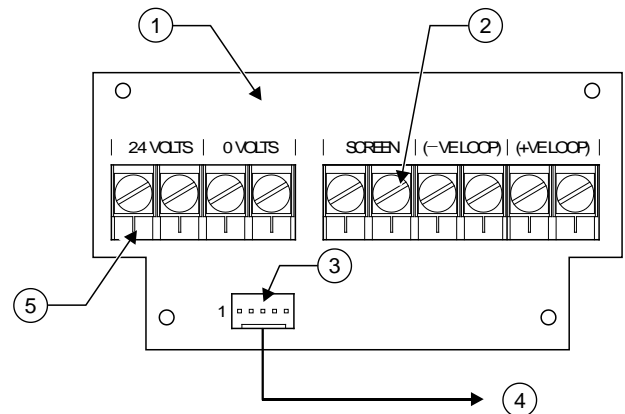
1. Wire the PCB
2. Set the operating power
3. Set the address
4. Set the operating mode
5. Set the tone
6. Set the volume
7. Mount the sounder to the backbox

The details of each step are given below.

Wiring the PCB

Connect the loop wiring and the optional external power cables to the terminals on the PCB as shown in Figure 1.

Figure 1: Connecting the wiring

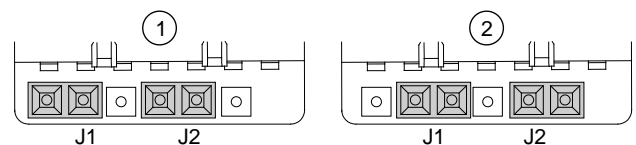


- | | |
|-------------------------------|-----------------------|
| 1. PCB | 4. Connect to sounder |
| 2. Six-way terminal connector | 5. External power |
| 3. Header socket | |

Setting the operating power

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

Figure 2: Power selection jumper configuration



- | | |
|-----------------|--------------------|
| 1. Loop powered | 2. External 24 VDC |
|-----------------|--------------------|

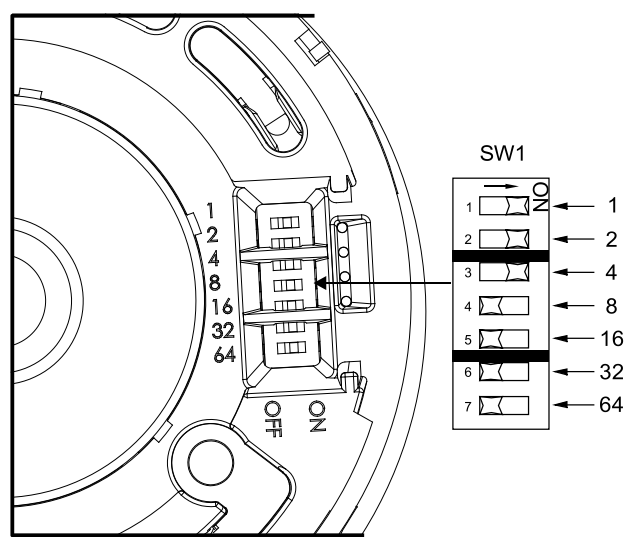
Note: When using an external power supply, use only one that is CE and EN 54-4 compliant to power all the sounders on the same loop.

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 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.

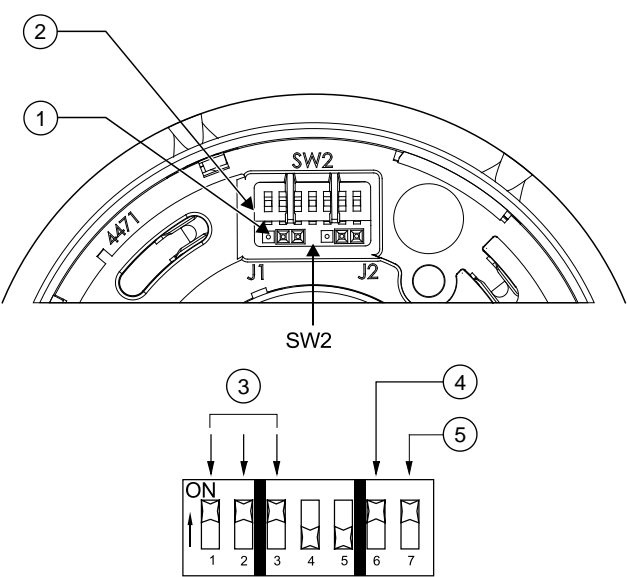
Figure 3: Address switch setting



Mode and tone settings

The sounder includes a seven-segment DIP switch (SW2) used to select operating mode, device mode, and tone. Refer to Figure 4.

Figure 4: Mode of operation switch settings



- 1. Power selection jumpers
- 2. SW2 configuration switch
- 3. Tone setting
- 4. Device mode
- 5. Stand-alone mode

Setting the operating mode

The device operates as a dedicated (stand-alone) sounder with its own unique loop address when SW2-7 is set to ON.

To configure operation as a stand-alone sounder:

1. Set SW2-7 to ON.
2. Navigate to the following menu to tag the sounders as SAB:

ZP3 Panel Menu/Setup/Sounders/SAB/Add SAB

The Planner can also be used.
3. To map an alert-to-evac function, make the first input type a fast flash input.

The sounder will sound the alert tone in response to a fast flash input or an evac tone when the input configured as steady is triggered, overriding the alert tone.

Setting the device mode

SW2-6 selects whether the loop sounder operates in ZP755 mode or in ZP754 emulation mode as described in Table 1.

Table 1: SW2-6 mode selection switch

Mode	SW2-6	Output Signal	Requirement
ZP755	OFF	User-selectable two-tone operation and full monitoring	ZP3 software v1.18 or later
ZP754 emulation	ON	Two fixed tones	ZP5 panels or ZP3 panels with legacy software

Setting the tone

Two different tones can be programmed to operate from the panel. In ZP755WV-2R mode these tones are selected using SW2-1, SW2-2, and SW2-3. Refer to Table 2.

Note: In the ZP panel I/O mapping menu, outputs are programmed as "steady" or "flashing." The link to the table below is as follows:

- Tone A = Panel setting "fast flash/slow flash."
- Tone B = Panel setting "steady."

Table 2: Tone settings

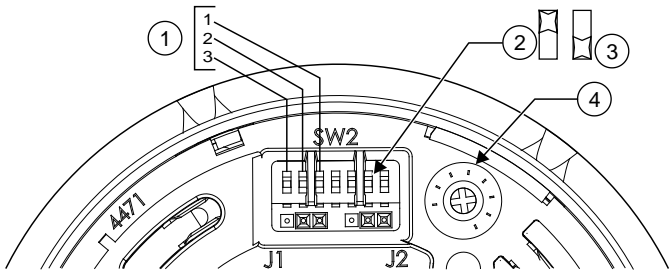
SW2-6 device mode switch setting	Device mode	SW2 switch setting -1 -2 -3	Mapping input type	
			Fast flash	Steady
			Tone type	
			Tone A primary/alert	Tone B secondary/evac
OFF	ZP755	0	Intermittent	Continuous
OFF	ZP755	1	Continuous	Intermittent
OFF	ZP755	2	Continuous	Two-tone
OFF	ZP755	3	Two-tone	Continuous
OFF	ZP755	4	Two-tone	Intermittent
OFF	ZP755	5	Intermittent	Two-tone
OFF	ZP755	6	Not used	
ON	ZP754	7	Intermittent	Continuous

Setting the volume

The sounder has a volume control potentiometer to adjust the volume. Refer to Figure 5.

WARNING: To conform to EN 54 Part 3 sound output levels, the volume control *must* be set to the full clockwise position. If the volume is adjusted for any reason, it *must* be returned to the full clockwise position.

Figure 5: Volume control



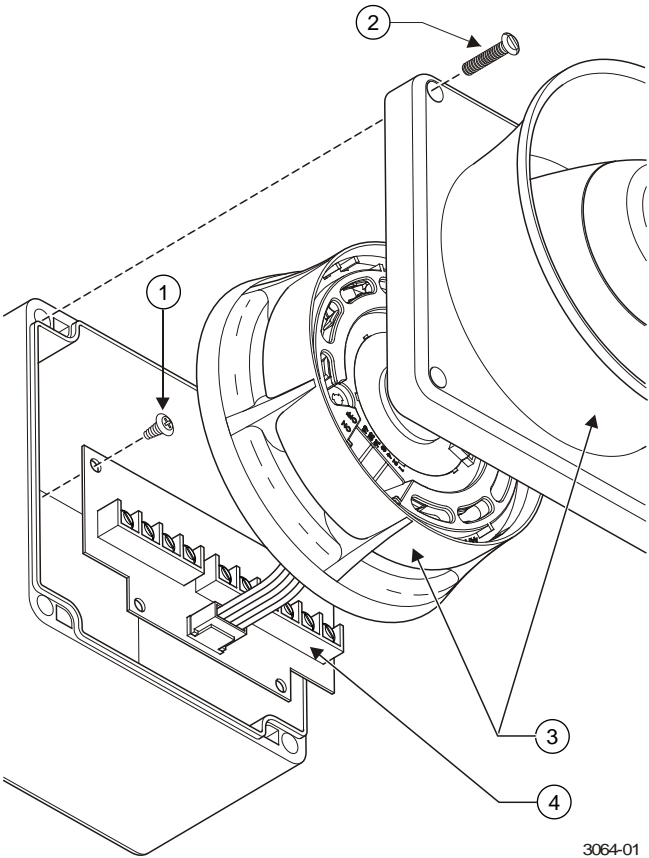
- 1. Tone Select
- 2. SW2-6 on
- 3. SW2-6 off
- 4. Volume control

Mounting the sounder

To mount the sounder:

1. Insert four M4 X 25 mm screws through the PCB mounting holes, and then secure to the backbox surface. Refer to Figure 6.
2. Install the sound output assembly into the backbox, and then secure using mounting screws.

Figure 6: Mounting

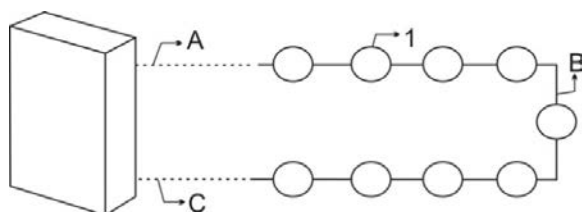


- 1. M4 x 25 mm screws
- 2. Mounting screws
- 3. Sound output assembly
- 4. PCB

Sounders per loop

The ZP755WV-2R sounder can be powered directly from the loop of a ZP3 panel. Use Table 3, in conjunction with Figure 7, to determine the quantity of detectors and sounders that can be connected to a two-core shielded loop.

Figure 7: Detector/sounders per loop



- A. Cable length panel to first sounder
- B. Cable length first to last sounder
- C. Cable length last sounder to panel
- 1. Detectors and Sounders

Table 3: Maximum detectors and sounders per loop

A	B	C	Quantity allowed [1]
10 m	980 m	10 m	30 detectors and 30 sounder visual indicators 100 detectors and 20 sounder visual indicators
100 m	800 m	100 m	30 detectors and 30 sounder visual indicators 100 detectors and 20 sounder visual indicators
200 m	600 m	200 m	30 detectors and 30 sounder visual indicators 100 detectors and 20 sounder visual indicators
300 m	400 m	300 m	20 detectors and 20 sounder visual indicators 110 detectors and 10 sounder visual indicators

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

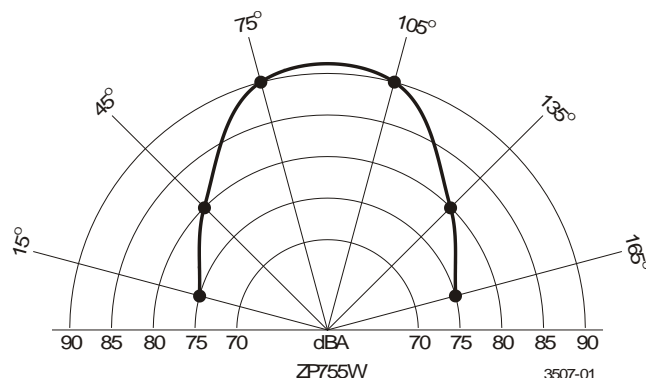
Specifications

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)	820 µA
Alarm (RMS)	9.6 mA
Alarm (excluding device address)	26.3 mA max. average
Alarm (at device address)	27 mA max.
Current (externally powered)	
Quiescent (RMS)	470 µA
Alarm (RMS)	500 µA
Maximum number	30 per 1 km loop (subject to cable size and sounder spacing)
Sound output	
Tone 1	90 dBA (forward sound dispersion)
Tone 2	Continuous 980 Hz.
Tone 3	Intermittent 980 Hz. (0.5 sec on/off)
Sound distribution	
Narrow	
CNPP anechoic sound levels	
See Figure 8	
Monitoring	
ZP loop	Open and short circuit fault
Sound output level	Self test facility
Compatibility	
Ziton addressable systems	
Addressing method	
7-segment DIP switch	
Mounting	
Surface	
Wiring	
Two-core shielded loop	
Construction	
Material	Moulded thermoplastic
Colour	Red
Weight	300 g
Dimensions (W x D)	120 x 150 mm

Operating environment


Temperature	-25 to +70°C
Relative humidity	10 to 95% RH, noncondensing
Storage temperature	-25 to +70°C

Figure 8: CNPP anechoic sound levels



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	CE
Certification body	0370
Declaration of Performance number	360-5201-0699
Year of first CE marking	14
Product Identification	ZP755WV-2R
Intended use	See DoP point 3
Essential characteristics	See DoP point 9
Manufacturer	Gulf Security Technology Co.,Ltd 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province, China 066004 Authorized EU manufacturing representative: UTC Fire & Security B.V. 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.
	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: www.recyclethis.info .

Contact information

For contact information, see www.utcssecurityproducts.eu.