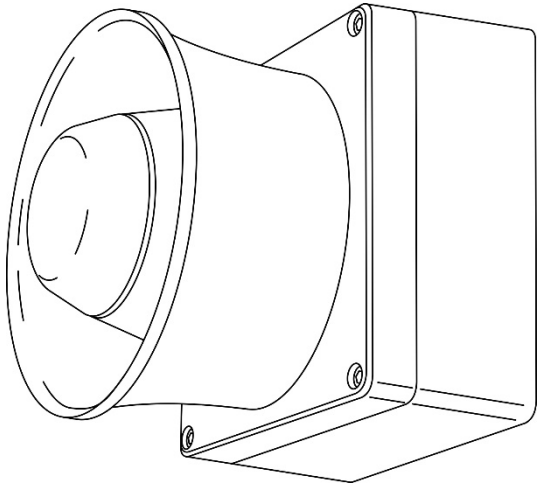




ZP755WV-2R Addressable Weatherproof Sounder/Visual Indicator Installation Sheet



Description

Caution: 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 ZP755WV-2R is an addressable, weatherproof sounder/visual indicator, designed for use in Ziton addressable fire detection and alarm systems. The sounder is rated for outdoor applications.

The unit includes a potentiometer for a volume control, DIP switches for setting the address, operating mode, and tone, and two jumpers to set the power source (loop or external 24 VDC supply).

Installation

To install the device:

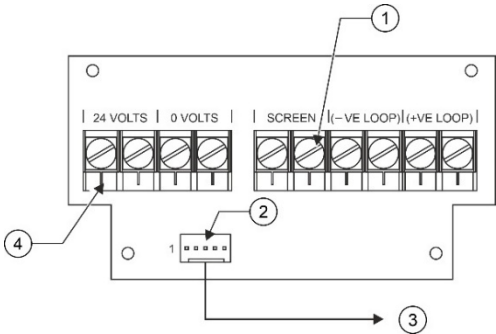
1. Wire the PCB
2. Set the power source (loop or external)
3. Set the address
4. Set the device and operating modes
5. Set the tone
6. Set the volume
7. Connect the power cables
8. Mount the sounder

The details of each step are given below.

Wiring the PCB

Wire the PCB as shown in Figure 1.

Figure 1: PCB wiring

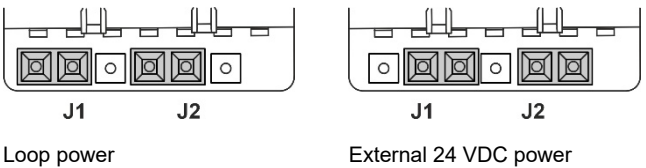


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|-------------------------------|-----------------------|
| 1. Six-way terminal connector | 3. Connect to sounder |
| 2. Header socket | 4. External power |

Setting the power source

Use jumpers J1 and J2 to set the power source, as shown in Figure 2.

Figure 2: Setting the power source



Caution: The external power supply must be EN 54-4 compliant and of sufficient capacity for the installation requirements.

Setting the address

Use DIP switch SW1 (see Figure 3) to set the device address from 1 to 127.

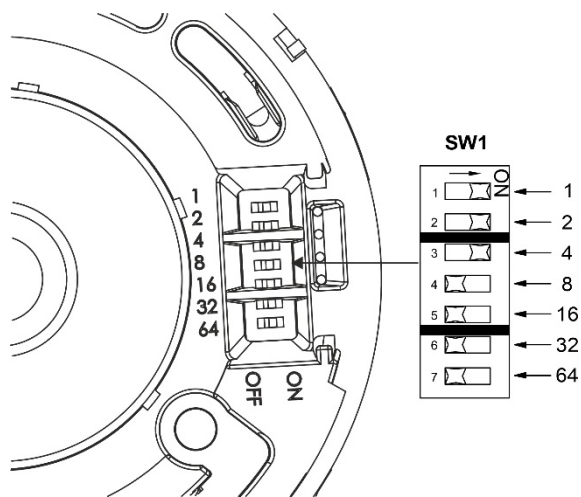
Each switch has a decimal value, as shown below. The device address is the sum of the switch values.

For example, to set device address 007, set switches 1, 2, and 3 to ON and all other switches to OFF.

Note: The switch *values* determine the address, not the switch numbers.

Switch	1	2	3	4	5	6	7
Value	1	2	4	8	16	32	64

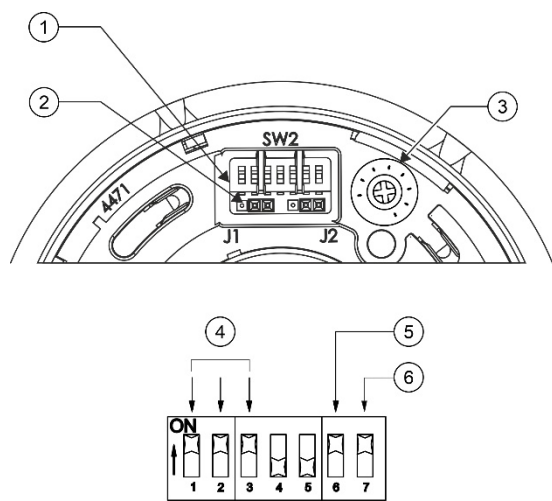
Figure 3: Setting the address



Mode, tone, and volume configuration

Use DIP switch SW2 (see Figure 4) to set the operating mode, device mode, and tone. Use the potentiometer to set the volume.

Figure 4: Mode, tone, and volume configuration



- 1. DIP switch SW2
- 2. Power selection jumpers
- 3. Volume control potentiometer
- 4. Tone configuration
- 5. Device mode configuration
- 6. Operating mode configuration

Setting the operating mode

The device only operates as a dedicated stand-alone sounder and DIP Switch SW2-7 must be on.

Table 1: Setting the operating mode (SW2-7)

SW2-7 Setting	Mode
On	The sounder operates as a dedicated stand-alone sounder with a unique loop address
Off	Not used – SW2-7 must be on

Setting the device mode

Use DIP Switch SW2-6 to configure the device mode, ZP755 or ZP754 Emulation.

Table 2: Setting the device mode (SW2-6)

SW2-6 Setting	Mode	Output signal
On	ZP754 Emulation [1]	Two fixed tones
Off	ZP755	User-selectable two-tone operation and full monitoring

[1] ZP5 panels or ZP3 panels with legacy firmware only.

Setting the tone

In device mode ZP755, use DIP Switches SW2-1, SW2-2, and SW2-3 to configure the tone. Two tones are available, as shown in Table 3.

Note: In the ZP3 panel I/O mapping menu, outputs are programmed as "steady" or "flashing" as follows:

- Tone A (primary/alert tone), ZP3 setting "fast flash/slow flash"
- Tone B (secondary/evacuation tone), ZP3 setting "steady"

Table 3: Setting the tone

Device mode	SW2-1, 2, 3	Tone A	Tone B
ZP755		Intermittent	Continuous
ZP755		Continuous	Intermittent
ZP755		Continuous	Two-tone
ZP755		Two-tone	Continuous
ZP755		Two-tone	Intermittent
ZP755		Intermittent	Two-tone
ZP755		Not used	Not used
ZP754 [1]		Intermittent	Continuous

[1] DIP switch SW2-6 on – see "Setting the device mode" above.

Setting the volume

Use the volume control potentiometer (see Figure 4) to set the volume.

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.

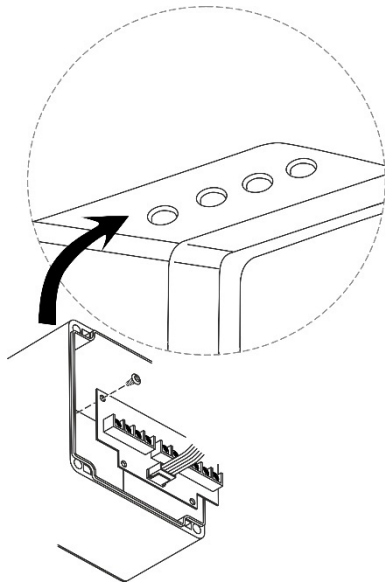
Connecting the power cables

Drill the cable connection holes in the box as required (see Figure 5). For loop power two holes may be used. For external power two, three, or four holes may be required.

Notes:

- When inserting cable glands into the holes, ensure that they are adjusted to fit securely around the diameter of the cable.
- Use the appropriate sized cable glands for the cable. The cable used must have a wire size between 0.75 and 1.5 mm².

Figure 5: Location of cable holes



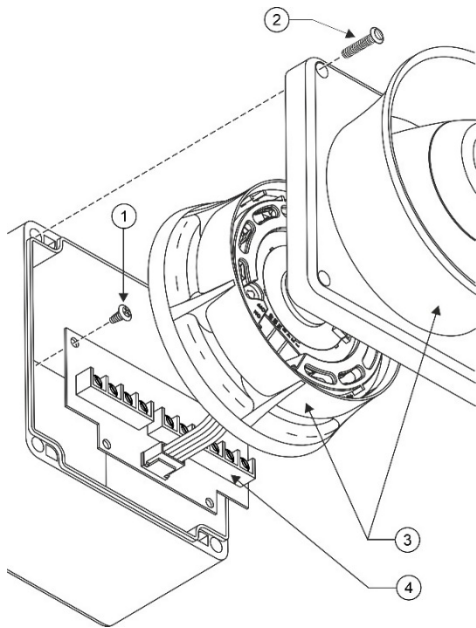
Mounting the sounder

To mount the sounder:

1. Insert four M4 × 25 mm screws through the PCB mounting holes, and then secure to the backbox surface (see Figure 6).
2. Install the sound output assembly into the backbox, and then secure the unit using the four mounting screws provided.

Caution: To prevent unauthorized tampering and comply with EN 54-3, one of the four mounting screws used to secure the unit must be the one-way clutch head security screw provided.

Figure 6: Mounting the sounder

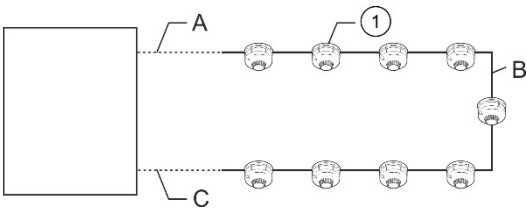


- | | |
|--|--------------------------|
| 1. M4 × 25 mm screws | 3. Sound output assembly |
| 2. Mounting screws (includes 1 × security screw) | 4. PCB |

Maximum number of devices per loop

For loop-powered devices, use Table 4, and Figure 7, to determine the quantity of detectors and sounders that can be connected to the loop.

Figure 7: Maximum number of devices 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 4: Maximum number of devices per loop

A	B	C	Quantity allowed [1]
10 m	980 m	10 m	80 detectors and 20 sounders 100 detectors and 15 sounders
100 m	800 m	100 m	80 detectors and 20 sounders 100 detectors and 15 sounders
200 m	600 m	200 m	60 detectors and 20 sounders 100 detectors and 15 sounders
300 m	400 m	300 m	40 detectors and 20 sounders 110 detectors and 15 sounders

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

Specifications

Operating voltage	
External power supply	18 to 30 VDC
Loop power	16 to 20.5 V pulsed
Current (loop powered)	
Quiescent (RMS)	1.3 mA
Alarm (RMS)	9 mA
Alarm (peak)	14 mA
Current (externally powered)	
Loop quiescent (RMS)	880 µA
Loop alarm (RMS)	935 µA
Loop alarm (peak)	4.7 mA
External quiescent (RMS)	500 µA
External alarm (RMS)	8 mA
Sound frequency	
Continuous tone [1]	980 Hz
Intermittent tone	980 Hz (0.5 s on/off)
Two-tone warble [1]	980 Hz/670 Hz
Sound distribution	Narrow
Anechoic sound levels	See Figure 8
Monitoring	
Loop	Open and short circuit fault
Sound output level	Self test facility
Addressing method	DIP switch
Mounting	Surface
Wiring	Two-core loop, shielded twisted pair
Material	Moulded thermoplastic
Colour	Red
IP rating	IP33C

[1] Certified to EN 54-3

This section provides a summary on the declared performance according to the Construction Products Regulation (EU) 305/2011 and Delegated Regulations (EU) 157/2014 and (EU) 574/2014.

Conformity	CE
Notified/Approved body	0370
Manufacturer	KGS Safety System (Hebei) Co. Ltd., 80 Changjiang East Road, QETDZ, Qinhuangdao 066004, Hebei, China. Authorized EU manufacturing representative: KGS Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, Netherlands.
Year of first CE marking	14
Declaration of Performance number	360-5201-0699
Product identification	ZP755WV-2R
Intended use	See product Declaration of Performance
Declared performance	See product Declaration of Performance
 	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 the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info .

