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Product description

Description

The ZP755W-2 is an addressable, weatherproof sounder, designed for use on Ziton analogue addressable fire detection and alarm systems. Conforming to EN54 Part 3, the sounder has been developed for outdoor applications, or for use in areas where the ingress of water can be expected, for example where hygiene requirements demand regular washing or hosing down of the protected area.

Application

Installed directly onto the wiring loop - the ZP755W-2 enables the system designer to offer a complete analogue addressable system on a single pair of wires. Installation costs are greatly reduced, whilst system integrity, sounder options and programmed alarm organisation are significantly increased.

The unit's high efficiency acoustic design and sound transducer, provides a forward sound dispersion with an output of 90 dBA. A volume control is included for areas where a reduced sound output is required, but this control must be fully clockwise to conform to EN54 Part 3 sound output levels.

The ZP755 range features a unique self test facility - automatically activated during routine sounder testing. A built in microphone circuit measures sound output level and automatically signals the sounder address and location to the control panel, should volume fall below the expected test level.

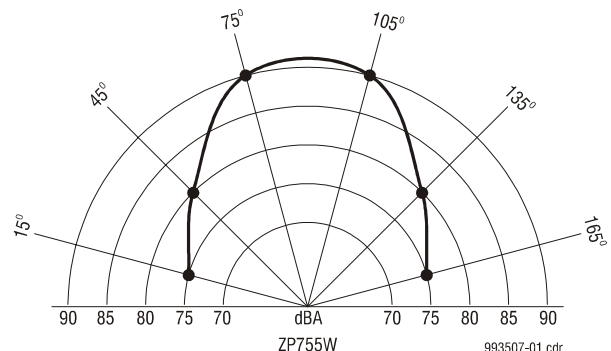
In systems where loop lengths or current requirements are excessive, ZP755W-2 sounders can be powered directly from an external power supply. All ZP755W-2 sounders incorporate switch settings enabling them to be assigned a unique address, which is polled by the panel every two seconds.

Continuous, intermittent and two-tone outputs are available, from which any combination can be chosen to provide alert and evacuate, two stage alarms. All sound types comply with BS 5839 Part 1:1988 recommended frequencies (in accordance with EN54 Part 3).

Moulded in high impact thermoplastic, the sounder is available in red.

Specifications

Design specification:	EN54 Part 3
Designation:	Addressable Weatherproof Sounder
Model No/Part No.:	
ZP755W-2R (Red)	178601
Compatibility:	All Ziton analogue addressable systems
Mounting:	Surface
Addressing method:	7 way Dip switch
Wiring:	2 core loop
Monitoring:	
ZP loop - open and short circuit fault	
sound output level - self test facility	
Sound output:	
Tone 1	continuous 980 Hz
Tone 2	intermittent 980 Hz (0.5 secs on/off)
Tone 3	two tone warble 980 Hz/670 Hz
Sound distribution:	narrow
Sound level (at 1m)	105 dBA
CNPP anechoic sound levels:	



Operating voltage:	External supply – 16V – 30Vdc Loop supply – ZP protocol 19.5V – 20.5V pulsed, max 4volts line loss
Current (quiescent):	800µA
Current (average active):	6 mA
Max number:	50 per 1km loop (subject to cable size and sounder spacing)
Environmental:	
Application:	Outdoor use
EN60529 rating:	IP65
Temp range:	-10°C to 70°C
Humidity range:	10% to 95% RH (non condensing)
EMC:	CPD compliant
Construction:	
Material:	Moulded thermoplastic
Dimensions:	120mm (W) x 150mm (D)
Colour:	red
Weight:	610g

Physical Installation

Connecting Wiring

Loop and optional external power cables connect to terminals on the back box. See Figure 1 below.

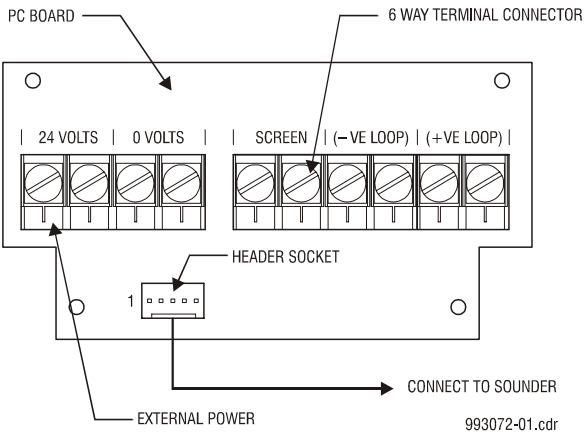


Figure 1

Mounting The Sounder

Insert four M4 X 25mm screws through the mounting holes and secure the Sounder back box to the surface. See Figure 2 below.

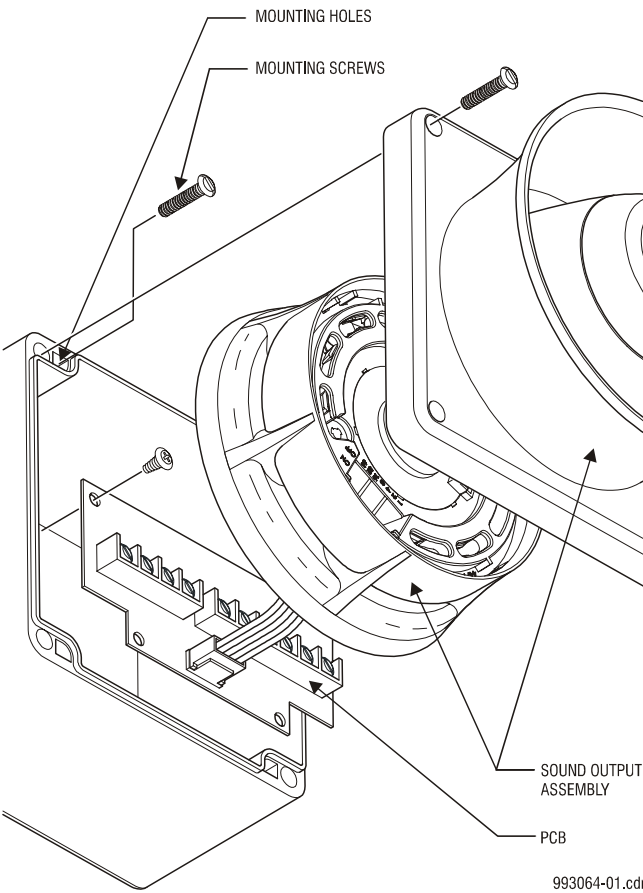


Figure 2

Operating Power

The ZP755W-2 can be powered directly from its address loop (setting 1), or externally from a 24 Vdc supply (setting 2). See Figure 3.

Setting The Address

The switch is used to set the device address in binary code. The switch may be set to represent all addresses from 1 to 127. See Figure 3.

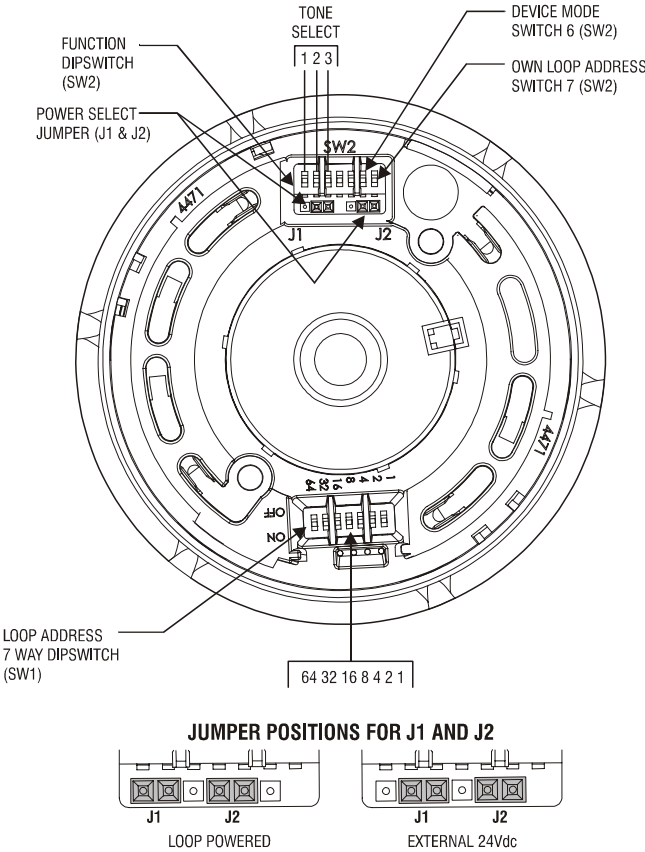


Figure 3

Operating Modes

The ZP755W-2 sounder has 2 modes of operation, which are selected using switch 7 on dipswitch SW2. See Figure 3.

1. Operation as a stand alone sounder

Own unique loop Address	Switch 7 = ON
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- 1.1 Navigate the following menu to tag the sounders as SAB:
ZP3 Panel Menu/Setup/Sounders/SAB/Add SAB. The Planner program can also be used.
- 1.2 To map an alert to evac function the first input type must be a fast flash input. The sounder will sound the alert tone in response to a fast flash input. The sounder will sound the evac tone when the input configured as steady is triggered, overriding the alert tone.

Emulation

The ZP755W-2 can operate as a ZP755W-2 or emulate a ZP754. See Figure 4.

1. ZP755 mode

Set switch 6 (dipswitch SW2) to OFF. Provides user selectable 2-tone operation and full monitoring.

Operates with ZP3 software 1.18 or higher.

2. ZP754 Emulation Mode

Set switch 6 (dipswitch SW2) to ON. Emulates ZP754, provides 2 fixed tones. Use with ZP5 panels or ZP3 panels with legacy software.

Tone Settings

See Figure 4 – Operating Modes.

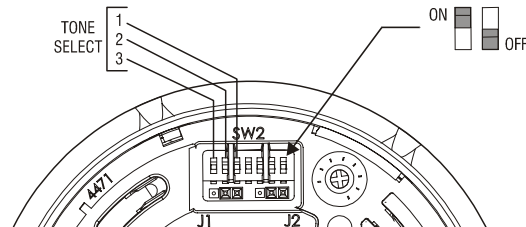
Two different tones can be programmed to operate from the panel. In ZP755W-2 mode these tones are selected using switches 1, 2 and 3 on the function dipswitch SW2.

For mode selection, refer to Operating Modes.

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

Tone A = Panel setting "fast flash/slow flash."

Tone B = Panel setting "steady."



Switch setting for device mode Switch 6	Device mode	DIP 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

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Figure 4

Number of Sounders Per Loop

See figure 5.

The ZP755W-2 sounder can be powered directly from the loop of a ZP5 or ZP3 panel. The table below, read in conjunction with figure 5, gives the quantity of detectors and sounders that can be connected to a 2 core screened loop of:

1000 metres cable size 1.5mm²

1. 10 metres panel to devices

- 50 detectors and 50 sounders
- 63 detectors and 42 sounders

2. 100 metres panel to devices

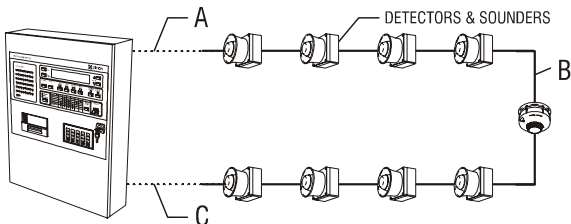
- 45 detectors and 45 sounders
- 63 detectors and 40 sounders

3. 200 metres panel to devices

- 40 detectors and 40 sounders
- 63 detectors and 37 sounders

4. 300 metres panel to devices

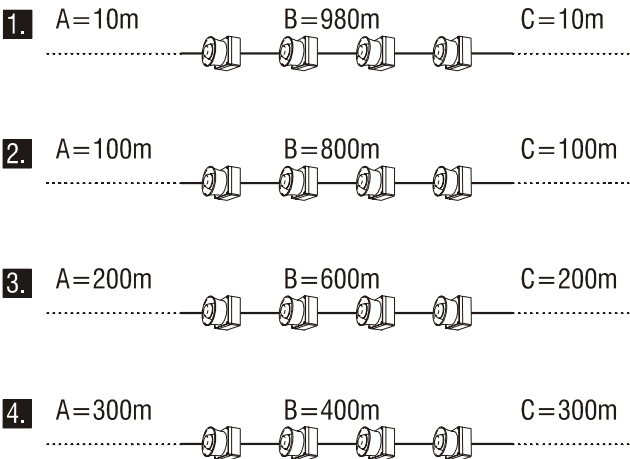
- 37 detectors and 37 sounders
- 63 detectors and 35 sounders



A = Cable length panel to first sounder

B = Cable length first to last sounder

C = Cable length last sounder to panel



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Figure 5