Addressable Sounder & Sounder VAD Detector Base (CS100-AD & CS100-VAD)

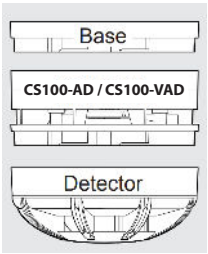
HARD & SOFT ADDRESSABLE FIRE ALARM SYSTEMS

Description

The CS100 range of addressable sounder & sounder VAD detector bases are designed to work on the Zeta Fyreye II protocol only, and are suitable for many indoor applications.

Available as a standard sounder only version (CS100-AD), or as enhanced sounder beacon version (CS100-VAD).

The devices can be either hard or soft addressed and also have numerous adjustable settings* allowing the outputs to be configured to meet various installation requirements. These settings can be controlled & selected via the on-screen menu options on the SMART range of addressable control panels.



Both products can be mounted on either a standard MKII-CB detector base.

Alternatively onto the MKII-CBI detector base with built-in short circuit isolator (SCI).

CS100-AD
Sounder Detector Base

CS100-VAD
Sounder / Strobe Detector Base

Technical Specification

Model	CS100-AD	CS100-VAD
Part Number	42-660	42-661
Colour	White	Transparent
Compatibility Base (utilising the SCI)	MKII-CBI	MKII-CBI
Compatibility Base (bypassing the SCI)	MKII-CB	MKII-CB
Flash Colour	N/A	White
Flash Rate	N/A	0.5Hz
Flasher Coverage	N/A	C-3-7
Number of VAD Settings	N/A	7 (+ off)
Sound Output	90dB	
Number of Tones	16	
Number of Sound Volumes	3	
Operating Voltage	17-28V	
Quiescent Current	0.7mA	
Alarm Current (Setting Dependent)	2.8mA-5.5mA	7.9mA-37mA
Sounder Type	Type B (Indoor)	
Operating Temperature	-10°C to +55°C	
Minimum Continuous Operating Temp	0°C	
Max Humidity	95% RH Non-Condensing	
IP Rating	IP21C (Indoor)	
Size (H xW x D in mm)	120 x 120 x 40 (CS-100 only)	
Size (H xW x D in mm)	120 x 120 x 96 (with MKII-AOH & CB)	
Weight	200 Grams	220 Grams

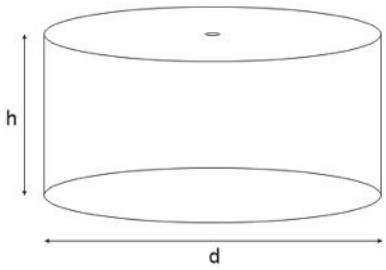
Sounder Output Setting:

When connected to a Smart Panel, the CS100-AD Sounder has selectable volume levels. The setting is done at the control panel from the device / options screen. The settings are:

Setting	Level	Current (with VAD OFF)
0	Off	N/A
1	Low	2.8mA
2	Medium	4.3mA
3 (Approved Setting)	High	5.5mA

Flasher Output Coverage

The CS100-VAD addressable beacon sounder has seletable beacon settings. the coverage for each settingis:



Setting	Coverage (C-h-d)	Alarm Current*
7	C-3-7	37mA
6	C-3-6	32mA
5	C-2.8-5.5	27mA
4	C-2.5-4.0	21mA
3	C-2.5-3.5	22mA
2	C-2.2-2.5	17mA
1	C-2-1.5	12mA
0	OFF	5.5mA
*Sounder on Max Setting		

Flasher Output Setting

Setting	Level	Current (with Sounder OFF)
0	Off	N/A
1	Low	6.9mA
2	Setting 2	11.9mA
3	Setting 3	17.2mA
4	Setting 4	16.5mA
5	Setting 5	22.0mA
6	Setting 6	26.5mA
7 (Approved Setting)	High	31.7mA

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Alarm Tone Selection

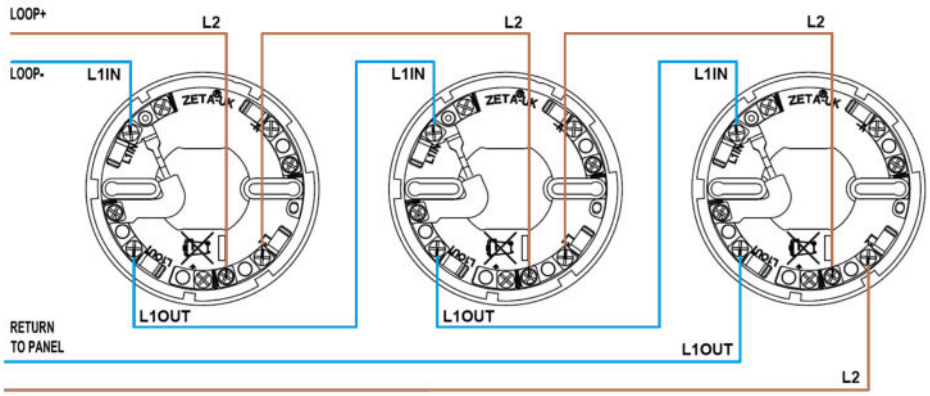
The CS100 sounder supports alarm tone selection. IE, the installer can decide which alarm tone ALL the sounders will use. The alarm tone can be set for the whole system via the control panel. One of 16 tones can be chosen for the alarm tone.

No	Tone Description	Pattern	Frequency (Hz)	Rate
0*	BS Fire (Default Zeta tone)	Alternating	800 & 970	1Hz (500ms-500ms)
1	BS Fire	Alternating	800 & 970	2Hz (250ms-250ms)
2	BS Fire	Sweep	800 & 970	1Hz (1 sweep per second)
3	BS Fire	Sweep	800 & 970	7Hz (7 sweeps per second)
4	BS Fire	Sweep	800 & 970	50Hz (50 sweeps per second)
5	BS Fire	Alternating	510 & 610	1Hz (500ms-500ms)
6	German Fire (DIN 33 404)	Sweep	1200 to 500	1Hz (1 sweep per second)
7	French Fire	Alternating	554 & 440	2 Hz (100ms-400ms)
8	Dutch Fire	Slow Whoop	500 to 1200	3.5s sweep, 0.5s silence, repeat
9	PFEER Toxic Gas	Continuous	970	Steady
10	PFEER alert	Intermittent	970	0.5Hz (1s On/1s Off)
11	ISO 8201 intermittent	Intermittent	970	(0.5 sec on, 0.5 sec off) x3, 1 sec off
12	ISO 8201 positive sweep	Intermittent	800 to 970	(0.5 sec on, 0.5 sec off) x3, 1 sec off
13	ISO 8201 negative sweep	Intermittent	970 to 800	(0.5 sec on, 0.5 sec off) x3, 1 sec off
14	BS Fire intermittent	Intermittent	970	1 Hz (0.5 sec on, 0.5 sec off)
15	ISO 8201 intermittent Low Frequency	Intermittent	520	(0.5 sec on, 0.5 sec off) x3, 1 sec off

* Approved Tone

Connections

A) Using Short Circuit Isolator (Using MKII-CBI)



B) Bypassing the Short Circuit Isolator (Using MKII-CB)

Note: On a MKII-CBI, the loop -ve cables are split to allow the SCI to function. On a MKII-CB, the loop -ve cables are joined.