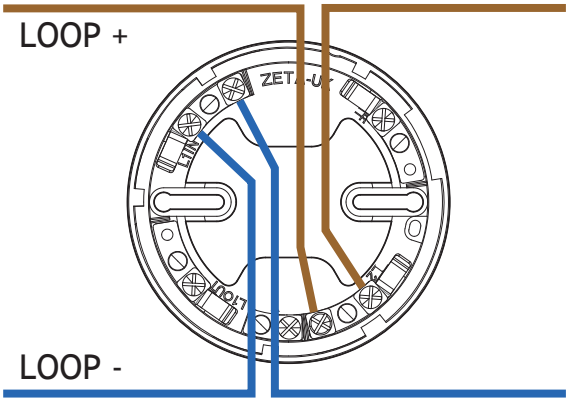
FYREYE II SANDWICH SOUNDER INSTALLATION MANUAL

Description

The Fyreye II Sandwich sounder base is a platform sounder that works with the Zeta Fyreye II protocol. The sounder can be triggered from it`s detectors remote LED output, allowing the sounders to be triggered individually. It can also be triggered using the Protocol`s common sounder group command, meaning that it can be triggered even if it`s detector has been removed.

Connections & Address Setting

This sounder has been designed to be sandwiched between a common base and an addressable Fyreye II Detector. All loop cables are terminated at the detector base, with the sounder base clipping onto the common base. The sounder should then be secured with it`s grub screw to prevent unauthorised removal. The sounder does not need to be addressed. If it is to be started individually, it is controlled by the detector`s remote LED output.



L2 = Loop +ve
L1IN = Loop -ve

The sounder does not need to be addressed. If it is to be started individually, it is controlled by the detector`s remote LED output.

Compatible Devices & Bases

Part Number	Model	Description
80-210	MKII-AOP	Fyreye MKII Addressable Optical Smoke Detector
80-212	MKII-AHR	Fyreye MKII Addressable Rate of Rise Heat Detector (A1R)
80-214	MKII-AHF	Fyreye MKII Addressable Fixed Heat Detector (A2S)
80-216	MKII-AOH	Fyreye MKII Addressable Opto-heat Detector
80-220	MKII-CB	Fyreye MKII Common Base (Shallow)

Protocol Usage

The Sandwich Sounder is a listen only device, so does not send any information back to the control panel. Because of this, the sandwich sounder does not have a device type code allocation.

Sounder Synchronisation

The sandwich sounders will synchronise , but they need at least one addressable sounder to be present on the loop (as they can not send tone timing information to the panel)

Alarm Tone Selection

The Sandwich sounder Supports alarm tone selection. The alarm tone can be set for the whole loop via the control panel. One of 16 tones can be chosen for the alarm tone.

No	Tone Description	Pattern	Frequency	Rate	dBA (Reverb. Chamber)
0*	BS Fire (Default Zeta tone)	Alternating	800 & 970	1Hz (500ms-500ms)	96 (+/- 2dB)
1	BS Fire	Alternating	800 & 970	2Hz (250ms-250ms)	95 (+/- 2dB)
2	BS Fire	Sweep	800 to 970	1Hz (1 per second)	98 (+/- 2dB)
3	BS Fire	Sweep	800 to 970	7Hz (7 per second)	99 (+/- 2dB)
4	BS Fire	Sweep	800 to 970	50Hz (50 per second)	99 (+/- 2dB)
5	BS Fire	Alternating	510 & 610	1Hz (500mS-500mS)	100 (+/- 2dB)
6	German fire (DIN 33 404)	Sweep (DIN)	1200 to 500	1Hz	99 (+/- 2dB)
7	French fire (NFS 32-001)	Alternating	554 & 440	100ms-400ms	95 (+/- 2dB)
8*	Dutch fire (NEN 2575)	Slow whoop	500 to 1200	3.5s sweep, 0.5 s silence, then repeat	98 (+/- 2dB)
9	PFEER Toxic Gas	Continuous	970	Steady	95 (+/- 2dB)
10	PFEER alert	Intermittent	970	0.5Hz (1s On/1s Off)	92 (+/- 2dB)
11	Reserved	-	-	-	-
12	Reserved	-	-	-	-
13	Reserved	-	-	-	-
14	Reserved	-	-	-	-
15	Reserved	-	-	-	-

* Approved to EN54 Part 3

Selecting a Reserved tone will cause the sounder to play tone 0. The default alarm tone will be tone 0.

Technical Data

Model	MKII-SSB
Part Number	80-224
Operating Voltage	17 – 28V DC
Quiescent Current	650µA
Alarm Current	5.5mA
Sound Output	Aprox 85 dB (Depending on tone – See Table) Min 75dB
Minimum Operating Temperature	0˚C
Operating Temperature	-10˚C to +55˚C
Max Humidity	95% RH Non Condensing
Ip Rating	IP 21C
Size	100mm dia x 40mm (Without Detector)
Weight	160g

For further information, including directional A-weighted sound output information please see doc MKII-SSB-OD, available from the manufacturer

Troubleshooting

Symptom	Probable Cause
Device Not Seen By Panel	This is normal. This is a platform sounder and does not reply to the panel.
Detector Fitted To Base Not Seen	Check that a Fyreye II detector is used. Previous versions of detector will not work on a Fyreye II loop. Check that the wiring to the common base is correct (+ve = L2, -ve = L1 IN)
Sounder Is Not Operating	Check if Platform sounder has been disabled for the address of the detector fitted. Check that the wiring to the common base is correct (+ve = L2, -ve = L1 IN) Check Panel`s actions (Cause & Effect) programming is correct.
Can Not Start An Individual Sounder	Check whether triggering individual sounders is supported by the control panel. Check the Cause & Effect programming to see if common sounder operation has been selected.

Other Information

Like all electronic equipment, at the end of it`s working life this unit should not be disposed of in a refuse bin. It should be taken to a local reprocessing site as per the guidelines of the WEEE directive, for correct disposal.

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CE	UK CA
2831	0832

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EN 54-3:2001+A2:2006
EN 54-3:2014+A1:2019
Alarm Devices – Sounder
Type A: For Indoor Use
MKII-SSB

Other Technical Data: See Doc: “MKII-SSB Product file” held by the manufacturer