

AVAX Loop Powered Fire Alarm Devices

Analogue Addressable Audio Visual Alarm Devices

Section: Intelligent/Addressable Devices

FEATURES

- **Common bayonet fit connection plate**
- **Connects directly to the analogue addressable loop**
- **Interchangeable without affecting wiring**
- **Base supplied separately for first fix**
- **In-built isolation option**
- **High Output (100 dB)**
- **Wide beacon viewing angle**
- **Individually addressed and controlled**
- **Low current**
- **32 tone settings**
- **Waterproof mounting option (IP65)**
- **Complies with EN54 Pt.3**

GENERAL

The AVAX range of analogue addressable, loop powered, audible visual fire alarm devices, provides a comprehensive selection of products designed to meet the majority of fire alarm installation requirements. With a common mounting and connection plate, all devices are fully interchangeable without the need for any wiring disturbance, allowing, for example, a sounder to be changed easily to a sounder and beacon combination or a beacon only.

AVAX devices provide both standard wall mounting units and integrated base units allowing the direct fitting of Notifier sensors. Wall mounting units are available as a sounder, sounder & beacon combination and a beacon only with sounder colour options of both red and white. Integrated base sounder units are also available as either a sounder or a sounder & beacon combination in colours to match the sensors. All units are also available with optional built in loop isolation.

INSTALLATION

Using the AVAX first fix connection base, an electronics free first fix can be achieved allowing loop cable high



voltage testing. A continuity spring link is provided to allow through connection when the device is not in situ facilitating loop testing, which automatically resets open when a device is inserted. The AVAX connection plate has mounting centres for standard electrical boxes and includes screw terminals for field wiring. Deep adaptor and waterproof deep adaptors allow the units to be surface mounted and placed in external locations if required. The adaptor units are supplied complete with the AVAX connection plate. An anti-tamper lock is standard and requires activation in order to comply with EN54 Pt.3. This is achieved by removing a small notch in the housing of each unit and further removal of the device requires the insertion of a small bladed screw driver through this hole. Each sounder includes a DIP switch which allows the selection of one of the in built thirty two tones and also allows selection of one of three volume settings. Two rotary switches set one of ninety nine available address settings.



This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact **NOTIFIER**, Charles Avenue, Burgess Hill, West Sussex, RH15 9UF. United Kingdom
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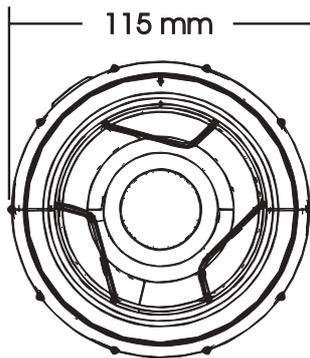
SPECIFICATIONS

• Sound Output and Current Consumption

No	Pattern	Nominal Frequency	Switching Frequency	Detector Base Sounder (24V)						Wall Mount Sounder (24V)					
				Output dB(A)			Maximum Current (mA)			Output dB(A)			Maximum Current (mA)		
				+/- 3						+/- 3					
				High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low
1	Alternating	554/440	2Hz (100ms/400ms)	92	83	79	6.25	1.81	1.32	100	92	89	5.37	2.14	1.56
2	Alternating	800/970	1Hz	92	86	76	4.92	2.72	1.23	99	94	84	5.81	3.32	1.34
3	Alternating	800/970	2Hz	93	86	76	5.15	2.67	1.17	99	94	84	5.97	3.38	1.28
4	Alternating	2400/2900	3Hz	83	75	63	6.33	2.63	1.29	97	90	82	5.53	2.62	1.41
5	Alternating	2500/3100	2Hz	82	74	61	6.46	2.69	1.26	96	89	81	5.30	2.57	1.38
6	Alternating	988/645	2Hz	92	84	76	4.61	2.59	1.27	99	94	84	4.88	2.93	1.42
7	Continuous	660		90	83	77	3.88	2.30	1.10	98	94	85	4.31	2.55	1.27
8	Continuous	970	(Default)	94	86	76	4.90	2.67	1.16	99	94	84	4.95	2.99	1.29
9	Continuous	1200		89	80	74	4.79	2.41	1.46	97	92	86	6.26	2.65	1.59
10	Continuous	2850		84	76	63	5.65	2.44	1.29	98	91	84	5.19	2.48	1.49
11	Continuous	4000		95	88	81	5.61	2.56	1.60	94	87	84	5.31	2.46	1.76
12	Intermittent	660	0.05Hz 6.5s on, 13s off	89	82	77	3.57	1.61	1.12	98	93	84	4.17	2.49	1.24
13	Intermittent	660	0.277Hz 1.8s on, 1.8s off	85	78	73	3.53	1.59	1.15	93	89	80	4.14	2.47	1.18
14	Intermittent	660	3.33Hz 150ms on, 150ms off	87	79	74	2.28	1.48	0.91	95	91	81	2.68	1.77	0.99
15	Intermittent	970	0.8Hz 0.25s on, 1s off	78	72	63	3.51	1.57	0.99	84	79	70	3.57	2.15	1.01
16	Intermittent	970	0.5Hz 1s on, 1s off	86	78	69	4.88	1.99	1.16	91	86	76	4.86	2.96	1.26
17	Intermittent	2850	1Hz	77	69	60	5.59	2.40	1.20	89	82	75	5.12	2.43	1.43
18	Intermittent	970	1Hz 500ms on, 500ms off	86	78	69	4.75	2.00	1.15	90	85	75	4.82	2.92	1.27
19	Intermittent	950	0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off	83	76	68	4.84	1.95	1.03	90	86	77	4.68	2.82	1.26
20	Intermittent	2850	4Hz 150ms on, 100ms off	81	73	61	4.23	1.90	1.00	96	89	81	3.96	1.84	1.20
21	Sweep	400-1200	(0.5s on, 0.5s off)*3, 1.5s off	81	74	70	3.17	1.72	1.27	92	86	81	5.83	2.55	1.72
22	Sweep	1200 - 500	0.99Hz 1s on, 0.01s off	89	83	77	5.09	2.42	1.52	100	94	89	6.22	3.14	2.20
23	Sweep	2400 - 2850	7Hz	79	72	59	5.96	2.65	1.32	97	89	82	5.73	2.68	1.54
24	Sweep	500 - 1200	(0.5s off, 3.5s on)	86	80	74	5.15	2.26	1.57	96	90	85	6.81	3.52	2.16
25	Sweep	800 - 970	50Hz	90	84	74	4.54	2.63	1.19	99	94	84	4.72	2.83	1.35
26	Sweep	800 - 970	7Hz	90	84	74	4.60	2.59	1.17	99	94	84	5.29	3.08	1.36
27	Sweep	800 - 970	1Hz	89	84	74	5.46	2.82	1.29	99	94	84	6.70	4.04	1.65
28	Sweep	2400 - 2850	50Hz	79	72	59	5.75	2.60	1.37	96	89	81	5.34	2.68	1.57
29	Sweep	500 - 1000	7Hz	90	85	75	4.88	2.41	1.23	100	94	85	5.32	2.65	1.39
30	Sweep	500 - 1200 - 500	0.166Hz rise 1s, stable 4s, fall 1s	89	81	75	4.80	2.37	1.45	98	92	87	6.19	3.00	1.89
31	Sweep	800 - 1000	2Hz	90	84	74	4.89	2.65	1.18	99	94	84	5.73	3.22	1.38
32	Sweep	2400 - 2850	1Hz	78	71	58	5.86	2.61	1.29	95	88	80	5.73	2.68	1.42

• Dimensions

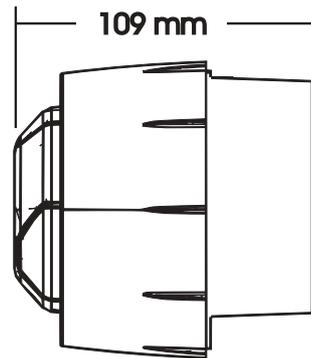
✓ Wall Sounder & Sounder Beacon



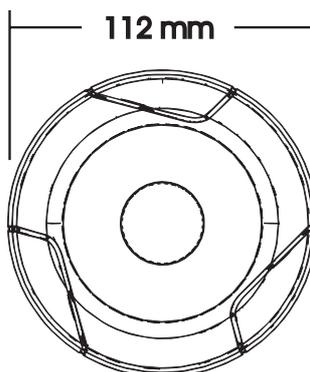
Low Profile Base



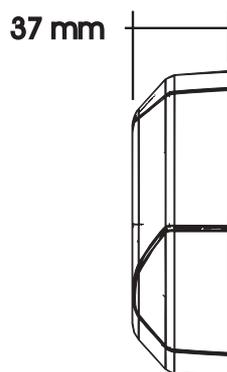
Deep & Waterproof Base



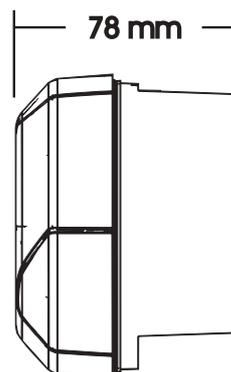
✓ Wall Beacon



Low Profile Base



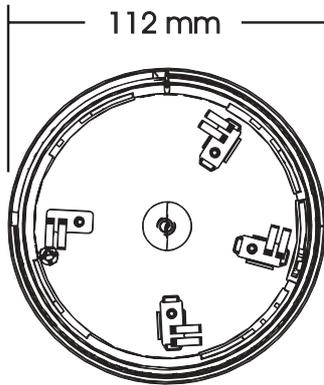
Deep & Waterproof Base



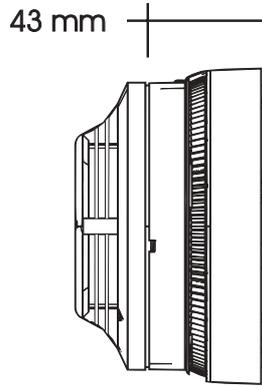
SPECIFICATIONS Cont.

• Dimensions

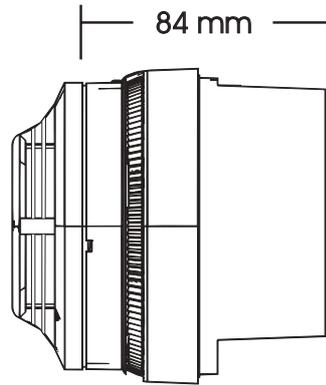
- ✓ Base Sounder & Sounder Beacon



- Low Profile Base



- Deep Base



• Current Consumption

- ✓ Quiescent - All Devices:
300 μ A @ 24VDC (without communication) 450 μ A @ 24VDC (one communication every 5 sec.). Add 190 μ A for isolator versions.

- ✓ Alarm Current:

Sounders / Sounder beacons

Dependent on setting - See table. Add 190 μ A for isolator versions. Add 2.2mA for sounder/ beacon versions.

Wall Mount Beacon

1.7mA. Add 0.19 mA for isolated version.



Deep Base

• Operating Voltage

- ✓ 15 V to 28VDC maximum

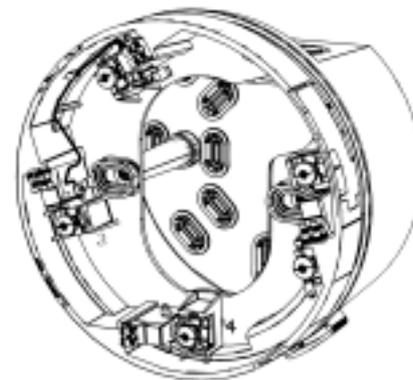
• Environmental Limits

- ✓ -25°C to +70°C operating temperature
- ✓ 10% to 96%, non-condensing relative humidity
- ✓ Ingress Protection (IP) Rating:

Wall Units - IP33C.

Wall Units + WDBR - IP65.

Base Units - IP21C



Deep Base With Connection Plate Fitted

ORDERING INFORMATION

Part No. Description

Wall Sounders:

AWS32/R	AVAX Wall mounting, addressable, loop powered sounder, RED
AWS32/W	AVAX Wall mounting, addressable, loop powered sounder, WHITE
AWS32/R-I	AVAX Wall mounting, addressable, loop powered sounder, RED, with in built loop isolator
AWS32/W-I	AVAX Wall mounting, addressable, loop powered sounder, WHITE, with in built loop isolator



Wall Sounder / Beacons:

AWSB32/R/R	AVAX Wall mounting, addressable, loop powered sounder with RED beacon, RED
AWSB32/W/R	AVAX Wall mounting, addressable, loop powered sounder with RED beacon, WHITE
AWSB32/R/R-I	AVAX Wall mounting, addressable, loop powered sounder with RED beacon, RED, with in built loop isolator
AWSB32/W/R-I	AVAX Wall mounting, addressable, loop powered sounder with RED beacon, WHITE, with in built loop isolator



Wall Or Ceiling Beacons:

AWB/R	AVAX Wall mounting, addressable, loop powered RED beacon
AWB/R-I	AVAX Wall mounting, addressable, loop powered RED beacon, with in built loop isolator



Integrated Base Sounders:

ABS32/W	AVAX Addressable, loop powered base sounder
ABS32/PW	AVAX Addressable, loop powered base sounder, PURE WHITE
ABS32/B	AVAX Addressable, loop powered base sounder, BLACK
ABS32/W-I	AVAX Addressable, loop powered base sounder, with in built loop isolator
ABS32/PW-I	AVAX Addressable, loop powered base sounder, PURE WHITE, with in built loop isolator
ABS32/B-I	AVAX Addressable, loop powered base sounder, BLACK, with in built loop isolator



Integrated Base Sounder / Beacons:

ABSB32/W/C	AVAX Addressable, loop powered base sounder / beacon with clear lens
ABSB32/PW/C	AVAX Addressable, loop powered base sounder / beacon, PURE WHITE, with clear lens
ABSB32/B/C	AVAX Addressable, loop powered base sounder / beacon, BLACK, with clear lens
ABSB32/W/C-I	AVAX Addressable, loop powered base sounder / beacon, with in built loop isolator and clear lens
ABSB32/PW/C-I	AVAX Addressable, loop powered base sounder / beacon, PURE WHITE, with in built loop isolator and clear lens
ABSB32/B/C-I	AVAX Addressable, loop powered base sounder / beacon, BLACK, with in built loop isolator and clear lens



Mounting Accessories:

LPBW	AVAX First Fix connection base
SDBR	AVAX First Fix surface mounting connection base kit, RED. Includes LPBW.
SDBD	AVAX First Fix surface mounting connection base kit, DETECTOR WHITE. Includes LPBW.
SDBW	AVAX First Fix surface mounting connection base kit, WALL SOUNDER WHITE. Includes LPBW.
SDBK	AVAX First Fix surface mounting connection base kit, DETECTOR BLACK. Includes LPBW.
WDBR	AVAX First Fix waterproof surface mounting connection base kit, RED. Includes LPBW.
SC072	AVAX Pack of 5 Earth continuity links for deep mounting kits (waterproof units are supplied with one Earth continuity link each).



Wiring Diagram

