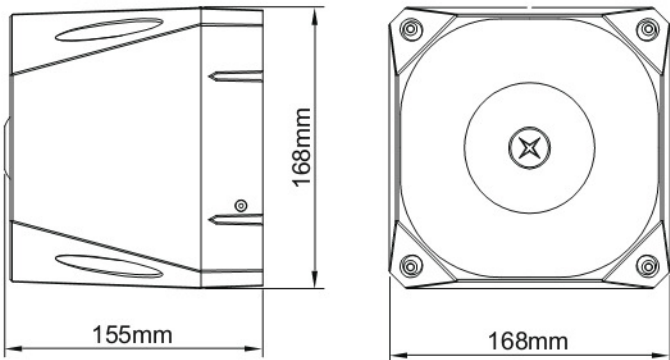


**Specification**

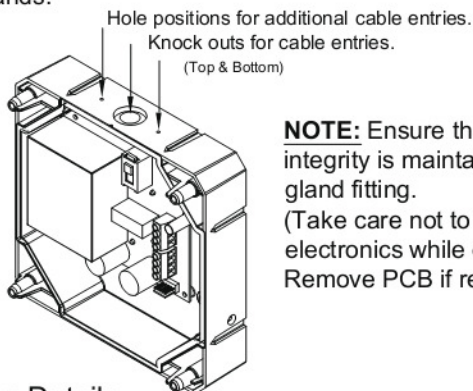
	115Vac/230Vac 110dB(A)	115Vac/230Vac 120dB(A)
Operation	Continuous	Continuous
Operating Voltage Range	115Vac/230Vac 50/60Hz	115Vac/230Vac 50/60Hz
Sound Output @ 1m	See table overleaf	See table overleaf
Current Consumption	0-80mA@115Vac 0-40mA@230Vac	0-130mA@115Vac 0-65mA@230Vac
Maximum Power	9W	15W
Tones	42 see table overleaf	42 see table overleaf
Operating Temperature	-25°C to +75°C	-25°C to +75°C
Construction	ABS /PC Plastic Case	ABS /PC Plastic Case
Ingress Protection	IP66	IP66
Fuse	80mA Anti surge, 20mm	80mA Anti surge, 20mm

**Dimensions**



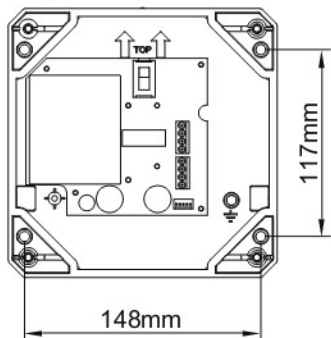
**1. Installation**

Knockout or drill required cable gland holes, and fix required cable glands.

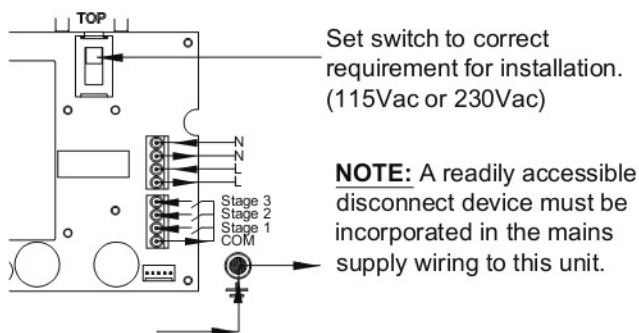


**2. Fixing Details**

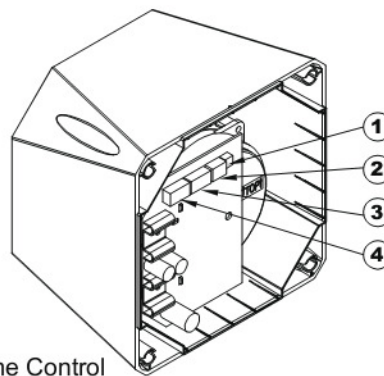
Fix base to wall in 4 positions.



**3. Connection Detail**



**4. Sounder Settings**



**1. Volume Control**

Turn dial clockwise to increase volume. (nominal 20dB Range)

**2. Switch 1 (Time out setting)**

BIT 123X	Minutes	BIT 123X	Minutes
111X	5	011X	25
110X	10	010X	30
101X	15	001X	40
100X	20	000X	∞

Switch 1 bit 4 is to select voice (0)/ no voice (1). (Where fitted)

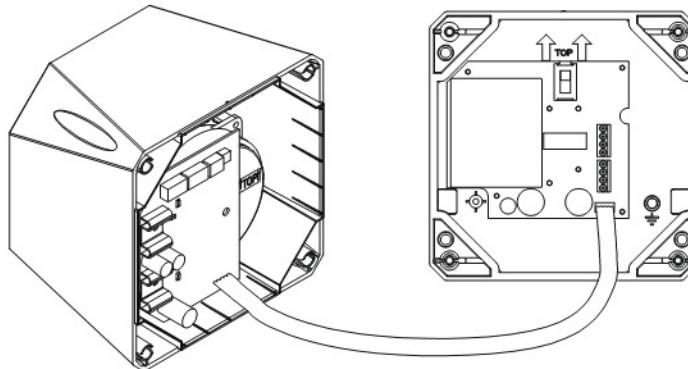
**3. Switch 2 (Stage1 tone selection)**

See table overleaf.

**4. Switch 3 (Stage 2 tone selection)**

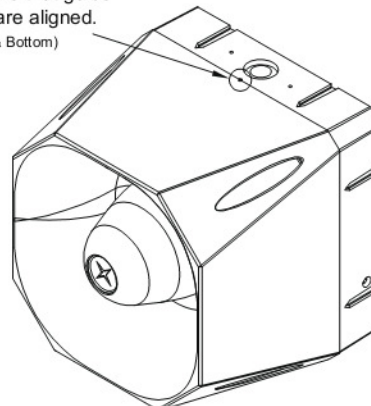
See table overleaf. (Stage 3 Tone is dependent on the setting of switch 2)

**5. Sounder Assembly**



1. Plug the 5 way ribbon cable into the base header.
2. Ensure that the top indicator on the base is aligned with the top indicator on the sounder, and push the sounder onto the base.
3. Secure the sounder to the base using the bolts provided.

Ensure that guide ribs are aligned. (Top & Bottom)



**WARNING** : On some tones the output level can exceed 120dB(A) @ 1m.  
: Consult the relevant or appropriate health and safety regulations for guidelines.  
Tones Table overleaf.  
: Do not remove cover, refer servicing to qualified personnel.  
: High voltage present within this equipment.



**NOTE** : Polar dispersion information available in the technical manual. (Ref.M03-003)

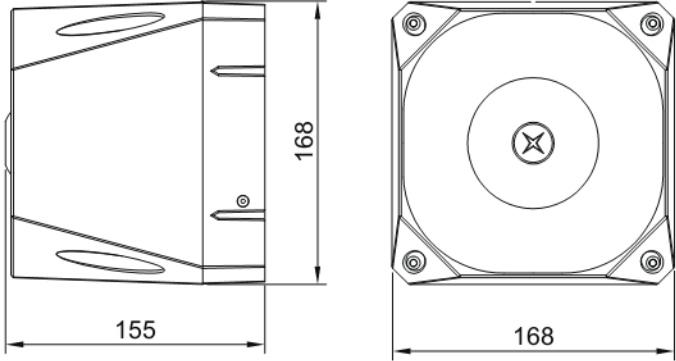
**AVISA line** AX08 Industrial Sounder Tones Table

No	CODE 123456	TONE					Stage 1 & 2		STAGE 3
		Description	Frequencies	Pattern	Use	115Vac/230Vac LP dB(A)@1m	115Vac/230Vac HP dB(A)@1m		
A1	111111	Alternating	800 & 970	2Hz (250ms-250ms)	Use	111	120	A14	
A2	111110	Sweep	800 & 970	7Hz (7/s)		112	120	A14	
A3	111101	Sweep	800 & 970	1Hz (1/s)		112	120	A14	
A4	111100	Continuous	2850	Steady		106	111	A9	
A5	111011	Sweep	2400 to 2850	7Hz		103	109	A4	
A6	111010	Sweep	2400 to 2850	1Hz		105	110	A4	
A7	111001	Slow Whoop	500 to 1200	3s sweep, 0.5s silence, then repeat (rep)	Slow Whoop Netherlands	111	119	A14	
A8	111000	Sweep	1200 to 500	1Hz	DIN/PFEER (PAPA)	111	119	A14	
A9	110111	Alternating	2400 & 2850	2Hz (250ms-250ms)		108	113	A4	
A10	110110	Intermittent	970	0.5Hz (1s On/1s Off)	PFEER alert	108	117	A14	
A11	110101	Alternating	800 & 970	1Hz (500ms-500ms)		109	118	A14	
A12	110100	Intermittent	2850	0.5Hz (1s On/1s Off)		107	112	A4	
A13	110011	Intermittent	970	0.8Hz (250ms On/1s Off)		108	117	A14	
A14	110010	Continuous	970	Steady	PFEER - Toxic gas	109	118	A8	
A15	110001	Alternating	554 & 440	100ms-400ms	France NFS 32 S 32-001	106	115	A14	
A16	110000	Intermittent	660	3.3Hz (150ms On/150ms Off)	Swedish (Air raid)	106	114	A14	
A17	101111	Intermittent	660	0.28Hz (1.8s On/1.8s Off)	Swedish (Local warning)	106	115	A14	
A18	101110	Intermittent	660	0.05Hz (6.5s On/13s Off)	Swedish (Pre-mess)	106	115	A14	
A19	101101	Continuous	660	Steady	Swedish (All clear)	107	116	A1	
A20	101100	Alternating	554 & 440	0.5Hz (1s On/1s Off)	Swedish (Turn out)	106	115	A19	
A21	101011	Intermittent	660	1Hz (500ms-500ms)	Swedish	106	115	A4	
A22	101010	Intermittent	2850	4Hz (150ms On/100ms Off)		105	110	A4	
A23	101001	Sweep	800 to 970	50Hz		109	117	A14	
A24	101000	Sweep	2400 to 2850	50Hz		106	110	A4	
A25	100111	Intermittent	970	3X500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal	109	118	A14	
A26	100110	Intermittent	2850	3X500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal	107	112	A4	
A27	100101	Continuous	4000	Steady		101	105	A6	
A28	100100	Alternating	800 & 970	2Hz (250ms-250ms)		109	118	A14	
A29	100011	Alternating	990 & 650	2Hz (250ms-250ms)\(Symphoni tones)		109	117	A14	
A30	100010	Alternating	510 & 610	2Hz (250ms-250ms)\(Squashni Micro tones)		107	116	A14	
A31	100001	Sweep	300 to 1200	1Hz		110	118	A14	
A32	100000	Continuous	Bell	Steady	See attached for waveform details	111	117	A3	
A33	011111	Continuous	Bell	3X500ms pulses followed by 1.5s silence then repeat	Bell/US Temporal	111	117	A14	
A34	011110	Alternating	1000 & 2000	1Hz (500ms-500ms)	Singapore	107	115	A4	
A35	011101	Intermittent	420	pulsed @ 0.625s	Australian alert	108	118	A14	
A36	011100	Sweep	500 to 1200	Sweep 3.75s followed by 0.25s gap	Australian evac	109	117	A14	
A37	011011	Sweep	1400 to 1600	Sweep up 1s, sweep down 0.5s	NF C 48-265	108	116	A14	
A38	011010	Sweep	500 to 1200	Sweep up & down over 3s	Siren	109	117	A14	
A39	011001	Intermittent	720	0.7s On, 0.3 Off	German ind alarm	110	118	A14	
A40	011000	Sweep	422 to 775	Sweep for 0.85s, 1s delay, repeat	NFPA Whoop	109	118	A14	
A41	010111	Continuous	470	Steady	Horn (USA)	104	114	A3	
A42	010110	Continuous	370	Steady	Air Horn (USA)	104	113	A3	

**Specification**

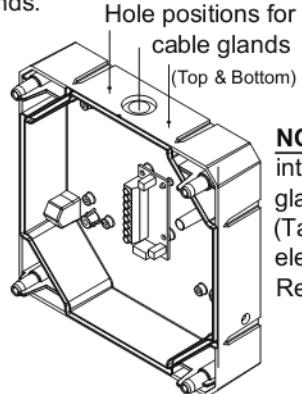
	24Vdc
Operation	Continuous
Operating Voltage Range	18Vdc-30Vdc
Sound Output @ 1 Meter	See table overleaf
Current Consumption	See table overleaf
Tones	1 to 44 see table overleaf
Operating Temperature	-25°C to +75°C
Line Monitoring Method	Polarized Input
Construction	ABS /PC Plastic Case
Ingress Protection	IP66

**Dimensions**



**1. Installation**

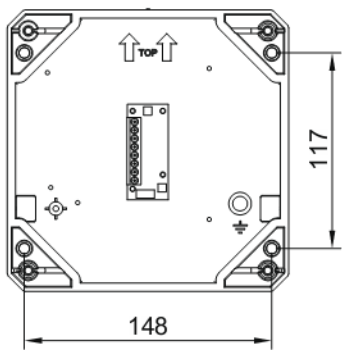
Knockout or drill required cable gland holes, and fix required cable glands.



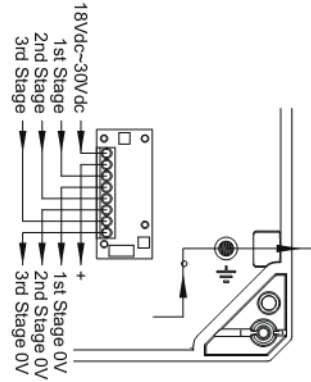
**NOTE:** Ensure that the IP integrity is maintained during gland fitting. (Take care not to disturb the electronics while drilling. Remove PCB if required)

**2. Fixing Details**

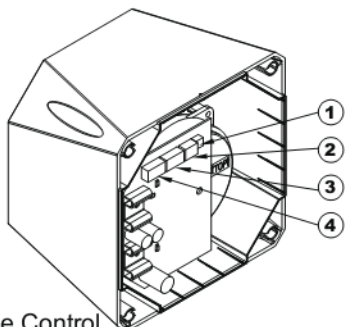
Fix base to wall in 4 positions.



**3. Connection Detail**



**4. Sounder Settings**



**1. Volume Control**

Turn dial clockwise to increase volume. (20dB Range)

**2. Switch 1 (Time out setting)**

BIT 1234	Minutes	BIT 1234	Minutes
111X	5	011X	25
110X	10	010X	30
101X	15	001X	40
100X	20	000X	∞

Switch 1 bit 4 is to select voice (0)/ no voice (1).

**3. Switch 2 (Stage1 tone selection)**

See table overleaf.

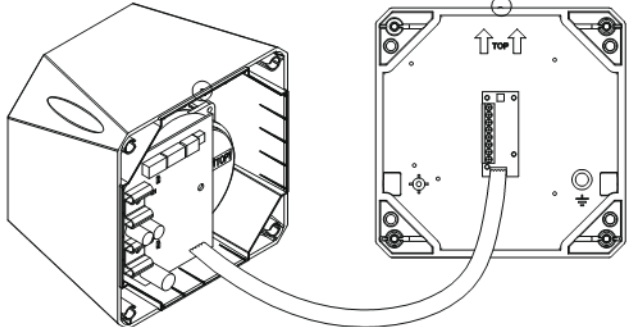
**4. Switch 3 (Stage 2 tone selection)**

See table overleaf. (Stage 3 Tone is dependent on the setting of switch 2)

**5. Switch positions**

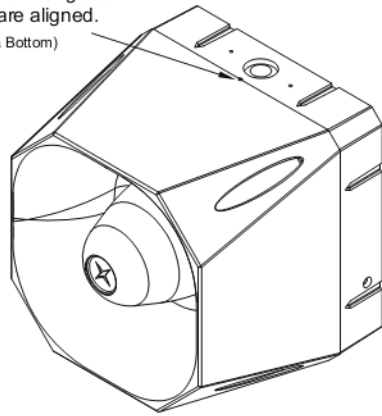


**5. Sounder Assembly**



1. Plug the 5 way ribbon cable into the base header.
2. Ensure that the top indicator on the base is aligned with the top indicator on the sounder, and push the sounder onto the base.
3. Secure the sounder to the base using the bolts provided.

Ensure that guide ribs are aligned. (Top & Bottom)



**WARNING :** On some tones the output level can exceed 120dB(A) @ 1m. Consult the relevant or appropriate health and safety regulations for guidelines. Tones Table overleaf.  
**NOTE :** Polar dispersion information available in the technical manual. (Ref:M03-003)



0832-CPD-0566  
0832-CPD-0520



1st & 2nd Tone bank		3rd Tone bank		Switch Setting (Open)		Tone Description					AX08 110			AX08 120		
						Pattern	Frequency (Hz)	Rate	Market	Depiction	Average current @ max vol @ 24VDC	24Vdc on axis @1M	EN54-3 30Vdc see notes	Average current @ max vol @ 24VDC	*24Vdc on axis @1M	EN54-3 30Vdc see notes
A 1	A14	123456	11111	11111	11111	Alternating	970 then 800	2Hz (250ms-250ms)	EVIAN		108	111	*	450	117	*
A 2	A14	11110	11110	11110	11110	Sweep	800 to 970	7Hz (7/s)			103	112	*	450	120	*
A 3	A14	11101	11101	11101	11101	Sweep	800 to 970	1Hz (1/s)			105	112	112	450	120	116
A 4	A9	11100	11100	11100	11100	Continuous	2850	Steady			122	106	*	445	109	*
A 5	A4	11101	11101	11101	11101	Sweep	2400 to 2850	7Hz			119	103	*	447	109	*
A 6	A4	11101	11101	11101	11101	Sweep	2400 to 2850	1Hz			121	105	*	446	110	*
A 7	A14	11100	11100	11100	11100	Slow whoop	500 to 1200	3s sweep, 0.5 s silence, then repeat (rep)	Slow Whoop Netherlands		115	111	112	340	119	116
A 8	A14	11000	11000	11000	11000	Sweep (DIN)	1200 to 500	1Hz	Din / PFEER (PAPA)		115	111	112	430	119	116
A 9	A4	11011	11011	11011	11011	Alternating	2850 then 2400	2Hz (250ms-250ms)			121	108	*	450	112	*
A 10	A14	11010	11010	11010	11010	Intermittent	970	0.5Hz (1s On/1s Off)	PFEER alert		71	108	*	229	117	*
A 11	A14	11010	11010	11010	11010	Alternating	970 then 800	1Hz (500ms-500ms)			106	109	*	375	116	*
A 12	A4	11010	11010	11010	11010	Intermittent	2850	0.5Hz (1s On/1s Off)			89	107	*	235	109	*
A 13	A14	11010	11010	11010	11010	Intermittent	970	0.8Hz (250ms On/1s Off)	ASP		35	108	*	100	117	*
A 14	A8	110010	110010	110010	110010	Continuous	970	Steady	PFEER - Toxic gas		104	109	111	450	117	115
A 15	A14	110001	110001	110001	110001	Alternating	440 then 554	100ms-400ms	PFEER - Toxic gas		76	106	*	294	115	*
A 16	A14	110000	110000	110000	110000	Intermittent	660	3.3Hz (150ms On/150ms Off)	France NFS 32 S 32-001		60	106	*	232	114	*
A 17	A14	10111	10111	10111	10111	Intermittent	660	0.28Hz (1.8s On/1.8s Off)	Swedish (Air raid)		88	106	*	220	115	*
A 18	A14	10110	10110	10110	10110	Intermittent	660	0.05Hz (6.5s On/1.3s Off)	Swedish (Local warning)		101	106	*	150	115	*
A 19	A1	10110	10110	10110	10110	Continuous	660	Steady	Swedish (Pre-mess)		103	107	*	429	116	*
A 20	A19	10110	10110	10110	10110	Alternating	440 then 554	0.5Hz (1s On/1s Off)	Swedish (All clear)		83	106	*	312	115	*
A 21	A4	101011	101011	101011	101011	Intermittent	660	1Hz (500ms-500ms)	Swedish (Turn out)		66	106	*	220	115	*
A 22	A4	101010	101010	101010	101010	Intermittent	2850	4Hz (150ms On/100ms Off)	Swedish		83	105	*	286	108	*
A 23	A14	101001	101001	101001	101001	Sweep	800 to 970	50Hz			102	109	*	419	117	*
A 24	A4	101000	101000	101000	101000	Sweep	2400 to 2850	50Hz			120	106	*	440	110	*
A 25	A14	100111	100111	100111	100111	Intermittent	970	3 x 500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal		62	109	*	180	117	*
A 26	A4	100110	100110	100110	100110	Intermittent	2850	3 x 500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal		64	107	*	180	109	*
A 27	A6	100101	100101	100101	100101	Continuous	4000	Steady			109	101	*	450	105	*
A 28	A14	100100	100100	100100	100100	Alternating	970 then 800	2Hz (250ms-250ms)			106	109	*	414	116	*
A 29	A14	100011	100011	100011	100011	Alternating	990 then 650	2Hz (250ms-250ms) (Symphoni tones)			104	109	111	444	117	115
A 30	A14	100010	100010	100010	100010	Alternating	510 then 610	2Hz (250ms-250ms) (Squashmi Micro tones)			96	107	109	370	116	113
A 31	A14	100001	100001	100001	100001	Sweep	300 to 1200	1Hz			84	110	*	285	118	*
A 32	A3	100000	100000	100000	100000	Continuous	Bell	Steady	See attached for waveform details		120	111	*	450	117	*
A 33	A14	11111	11111	11111	11111	Intermittent	Bell	3 x 500ms pulses followed by 1.5s silence then repeat	Bell / US temporal		69	111	*	180	117	*
A 34	A4	11110	11110	11110	11110	Alternating	1000 then 2000	1Hz (500ms-500ms)	Singapore		112	107	*	450	115	*
A 35	A14	11101	11101	11101	11101	Intermittent	420	6 step ramped start pulsed @ 0.625S ON / 0.625S OFF	Australian alert		46	108	*	140	116	*
A 36	A14	11100	11100	11100	11100	Sweep	500 to 1200	Sweep 3.75s followed by 0.25s gap	Australian evac		91	109	*	340	117	*
A 37	A14	11011	11011	11011	11011	Sweep	1400 to 1800	Sweep up 1s, sweep down 0.5s	NF C 48-285		122	108	*	448	116	*
A 38	A14	11010	11010	11010	11010	Sweep	500 to 1200	Sweep UP & DOWN over 3s	Siren		94	109	*	310	117	*
A 39	A14	11001	11001	11001	11001	Intermittent	720	0.7s ON, 0.3OFF	German ind alarm		90	110	*	310	117	*
A 40	A14	11000	11000	11000	11000	Sweep	422 to 775	Sweep for 0.85s, 1s delay, repeat	NFPA Whoop		60	109	*	180	118	*
A 41	A3	10111	10111	10111	10111	Continuous	470	Steady	Horn (USA)		85	104	*	340	114	*
A 42	A3	10110	10110	10110	10110	Continuous	370	Steady	Air horn (USA)		76	104	*	272	113	*

Note (a): Tones approved under the Construction Products Directive for Fire Alarm Applications, are shown in the column marked EN54-3.  
Note (b): EN54-3 measurements shown reflect minimum expected SPL readings at Maximum Volume at the Loudest Point around the EN54-3 defined sounder axis.  
Note (c): All other tone measurements reflect manufacturers data based on 'on axis' measurements, and are not verified by a Notified body.  
Note (d): Detailed EN54-3 polar SPL measurements are available in the Product Manual for the appropriate sounder.  
Note (e): All measurements taken at 200C operating temperature.