

ASSERTA Industrial Sounder/Beacon (230Vac Only)



Specification

Sounder

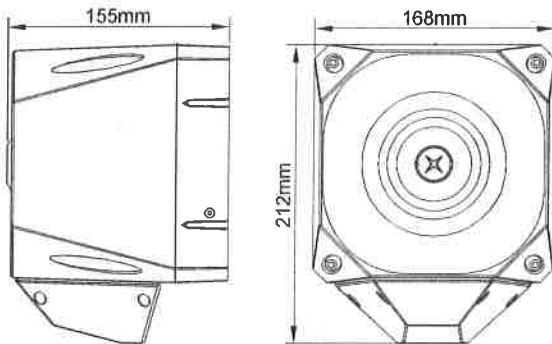
	230Vac 110dB(A)	230Vac 120dB(A)
Operation	Continuous	Continuous
Operating Voltage Range	230Vac 50/60Hz	230Vac 50/60Hz
Sound Output @ 1m	See table overleaf	See table overleaf
Current Consumption	39mA@230Vac	65mA@230Vac
Tones	42 see table overleaf	42 see table overleaf
Operating Temperature	-25°C to +75°C	-25°C to +75°C
Construction	ABS /PC FR plastic	ABS /PC FR plastic
Termination	0.28~2.5mm ² cable	0.28~2.5mm ² cable
Ingress Protection	IP66	IP66
Fuse	80mA Antisurge, 20mm	80mA Antisurge, 20mm

Beacon

	230Vac
Operating Voltage Range	230Vac 50/60Hz
Current Consumption	15mA
Rating	2 Joules
Operating Temperature	-25°C to +75°C
Construction	ABS /PC FR plastic
Termination	0.28~2.5mm ² cable
Ingress Protection	IP66
Fuse	80mA Antisurge, 20mm

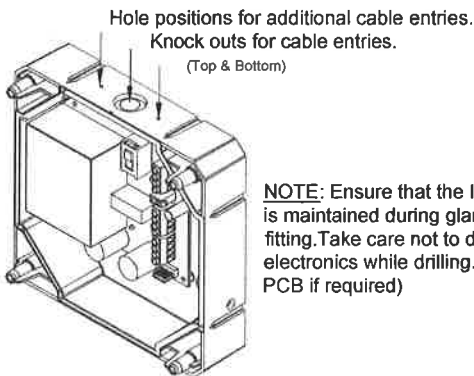
NOTE: This product is not suitable for 115Vac Supplies.

Dimensions



1. Installation

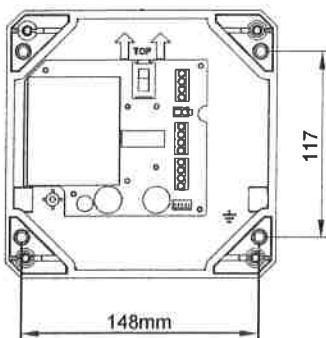
Knockout or drill required cable gland holes, and fix required cable glands.



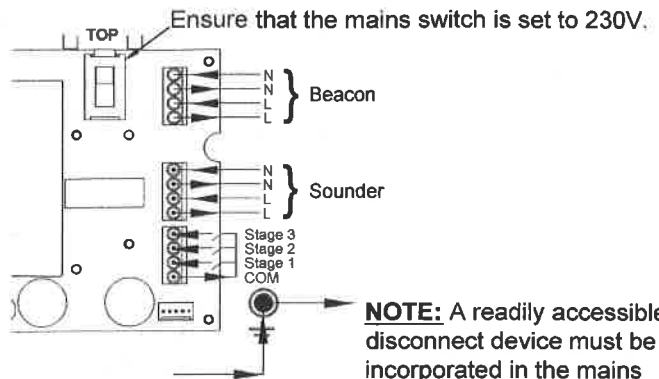
NOTE: Ensure that the IP integrity is maintained during gland fitting. Take care not to disturb the electronics while drilling. Remove PCB if required)

2. Fixing Details

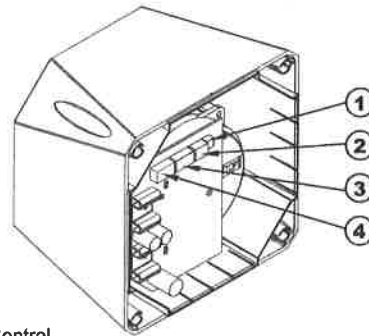
Fix base to wall in 4 positions.



3. Connection



4. Sounder Settings



1. Volume Control



Turn dial clockwise to increase volume. (Nominal 20dB range)

2. Switch 1 (Time out setting)



0 = Open
1 = Closed

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)



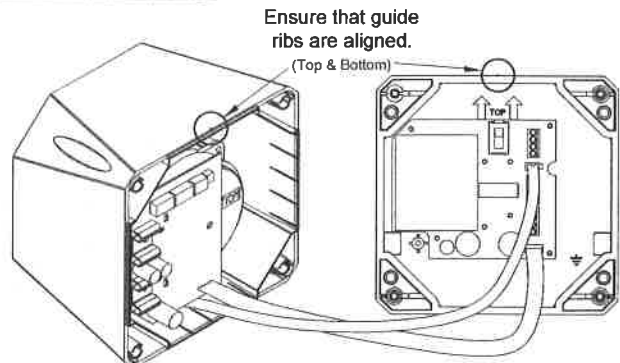
See table overleaf.

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



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)



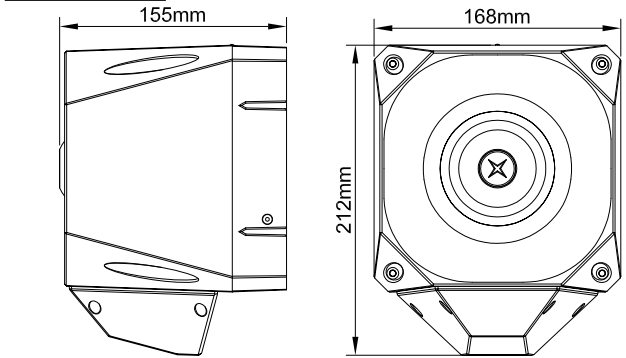
Industrial Sounder Tones Table

No	CODE	TONE			Use	Stage 1 & 2				STAGE 3
		Description	Frequencies	Pattern		115Vac/230Vac LP		115Vac/230Vac HP		
						dB(A)@1m		dB(A)@1m		
A1	111111	Alternating	800 & 970	2Hz (250ms-250ms)		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

ASSERTA Industrial Sounder/Beacon (24Vdc)

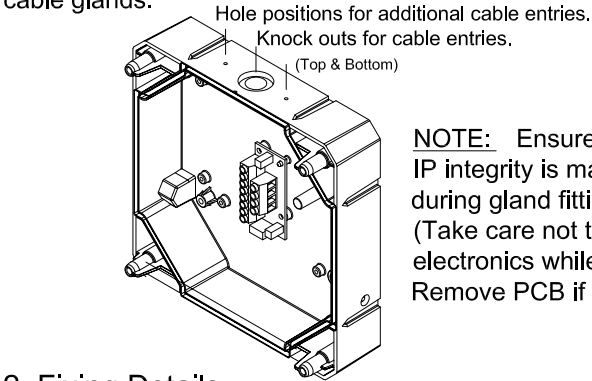
Specification	24Vdc Sounder	24Vdc Beacon
Operation	Continuous	Continuous
Operating Voltage Range	18Vdc-30Vdc	18Vdc-30Vdc
Rating	N/A	3.5 Joules
Sound Output @ 1m	See table overleaf	N/A
Current Consumption	See table overleaf	See table below
Tones	42 see table overleaf	N/A
Operating Temperature	-25°C to +75°C	-25°C to +75°C
Line Monitoring Method	Polarised Input	Polarised Input
Construction	ABS /PC FR plastic	ABS /PC FR plastic
Monitoring mode	Polarising diode	Polarising diode
Termination	0.28~2.5mm ² cable	0.28~2.5mm ² cable
Environment Category	Type A/B	Type A/B
Ingress Protection	IP66	IP66
Compliance	EN54-3 Fire Alarm device -Sounder	EN54-3 Fire Alarm device -Sounder

Dimensions



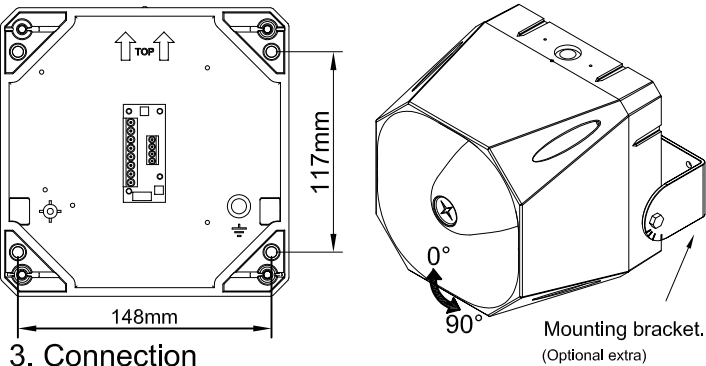
1. Installation

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

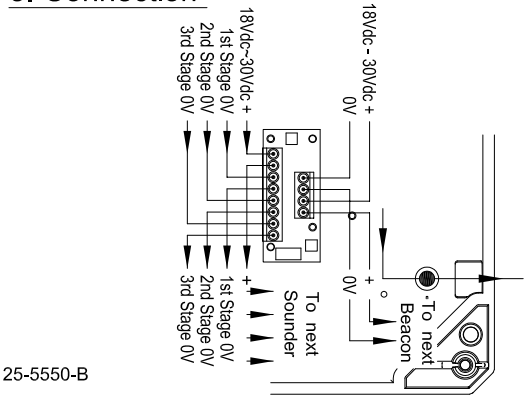


2. Fixing Details

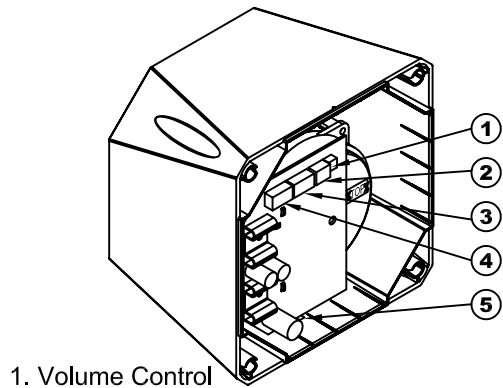
Fix base to wall in 4 positions.



3. Connection



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)

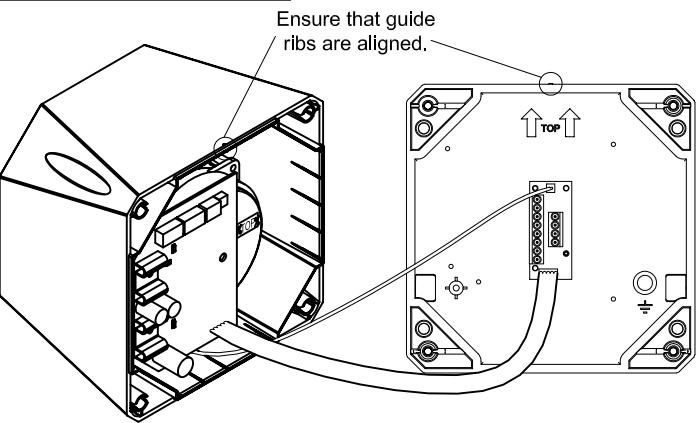
See table overleaf. (Stage 3 Tone is dependent on the setting of switch 2)

5. Beacon Switch (24Vdc only)

See table below.

Switch 1	Switch 2	Flash Rate	Current
open	open	45/min	120-370mA
closed	open	60/min	190-570mA
open	closed	85/min	180-530mA
closed	closed	120/min	220-620mA

5. Sounder Assembly



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

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)



1st & 2nd Tone bank	3rd Tone Bank	Switch Setting (0=Open)	Tone Description										Asserta 110		Asserta 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 see notes	dB(A)	dB(A)	dB(A)	dB(A)
A 1	A14	123456	Alternating	970 then 800	2Hz (250ms-250ms)	EVIAN		108	111	*	450	117	*	117	*	EN54-3 30Vdc see notes
A 2	A14	111111	Sweep	800 to 970	7Hz (7/s)			103	112	*	450	120	*	120	*	
A 3	A14	111101	Sweep	800 to 970	1Hz (1/s)			122	106	*	445	109	*	109	*	
A 4	A9	111100	Continuous	2850	Steady			119	103	*	447	109	*	109	*	
A 5	A4	111011	Sweep	2400 to 2850	7Hz			121	105	*	446	110	*	110	*	
A 6	A4	111010	Sweep	2400 to 2850	1Hz			115	111	112	340	119	116	116		
A 7	A14	111001	Slow whoop	500 to 1200	3s sweep, 0.5 s silence, then repeat (rep)	Slow Whoop Netherlands		115	111	112	340	119	116	116		
A 8	A14	111000	Sweep (DIN)	1200 to 500	1Hz	Din / PFEER (PAPA)		121	108	*	450	112	*	112	*	
A 9	A4	110111	Alternating	2850 then 2400	2Hz (250ms-250ms)			71	108	*	229	117	*	117	*	
A 10	A14	110110	Intermittent	970	0.5Hz (1s On/1s Off)	PFEER alert		106	109	*	375	116	*	116	*	
A 11	A14	110101	Alternating	970 then 800	1Hz (500ms-500ms)			89	107	*	235	109	*	109	*	
A 12	A4	110100	Intermittent	2850	0.5Hz (1s On/1s Off)			35	108	*	100	117	*	117	*	
A 13	A14	110011	Intermittent	970	0.8Hz (250ms On/1s Off)	AS P		104	109	111	450	117	115	115		
A 14	A8	110010	Continuous	970	Steady	PFEER - Toxic gas		76	106	*	294	115	*	115	*	
A 15	A14	110001	Alternating	440 then 554	100ms-400ms	France NFS 32 S 32-001		60	106	*	232	114	*	114	*	
A 16	A14	110000	Intermittent	660	3.3Hz (150ms On/150ms Off)	Swedish (Air raid)		88	106	*	220	115	*	115	*	
A 17	A14	101111	Intermittent	660	0.28Hz(1.8s On/1.8s Off)	Swedish (Local warning)		101	106	*	150	115	*	115	*	
A 18	A14	101110	Intermittent	660	0.05Hz (6.5s On/13s Off)	Swedish (Pre-mess)		103	107	*	429	116	*	116	*	
A 19	A1	101101	Continuous	660	Steady	Swedish (All clear)		83	106	*	312	115	*	115	*	
A 20	A19	101100	Alternating	440 then 554	0.5Hz (1s On/1s Off)	Swedish (Turn out)		66	106	*	220	115	*	115	*	
A 21	A4	101011	Intermittent	660	1Hz (500ms-500ms)	Swedish		83	105	*	286	108	*	108	*	
A 22	A4	101010	Intermittent	2850	4Hz (150ms On/100ms Off)			102	109	*	419	117	*	117	*	
A 23	A14	101001	Sweep	800 to 970	50Hz			120	106	*	440	110	*	110	*	
A 24	A4	101000	Sweep	2400 to 2850	50Hz			62	109	*	180	117	*	117	*	
A 25	A14	100111	Intermittent	970	3 x 500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal		64	107	*	180	109	*	109	*	
A 26	A4	100110	Intermittent	2850	3 x 500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal		109	101	*	450	105	*	105	*	
A 27	A6	100101	Continuous	4000	Steady			106	109	*	414	116	*	116	*	
A 28	A14	100100	Alternating	970 then 800	2Hz (250ms-250ms)			104	109	111	444	117	115	115		
A 29	A14	100011	Alternating	990 then 650	2Hz (250ms-250ms) (Symphoni tones)			96	107	109	370	116	113	113		
A 30	A14	100010	Alternating	510 then 610	2Hz (250ms-250ms) (S quashmi Micro tones)			84	110	*	285	118	*	118	*	
A 31	A14	100001	Sweep	300 to 1200	1Hz			120	111	*	450	117	*	117	*	
A 32	A3	100000	Continuous	Bell	Steady	See attached for waveform details		69	111	*	180	117	*	117	*	
A 33	A14	111111	Intermittent	Bell	3 x 500ms pulses followed by 1.5s silence then repeat	Bell /US temporal		112	107	*	450	115	*	115	*	
A 34	A4	111110	Alternating	1000 then 2000	1Hz (500ms-500ms)	Singapore		46	108	*	140	116	*	116	*	
A 35	A14	111101	Intermittent	420	6 step ramped start pulsed @ 0.625S ON /0.625S OFF	Australian alert		91	109	*	340	117	*	117	*	
A 36	A14	111100	Sweep	500 to 1200	Sweep 3:75s followed by 0.25s gap	Australian evac		122	108	*	448	116	*	116	*	
A 37	A14	110111	Sweep	1400 to 1600	Sweep up 1s, sweep down 0.5s	NF C 48-265		94	109	*	310	117	*	117	*	
A 38	A14	110110	Sweep	500 to 1200	Sweep UP & DOWN over 3s	Siren		90	110	*	310	117	*	117	*	
A 39	A14	110011	Intermittent	720	0.7s ON, 0.3OFF	German ind alarm		60	109	*	180	118	*	118	*	
A 40	A14	110000	Sweep	422 to 775	Sweep for 0.85s, 1s delay, repeat	NFPA Whoop		85	104	*	340	114	*	114	*	
A 41	A3	101111	Continuous	470	Steady	Horn (USA)		76	104	*	272	113	*	113	*	
A 42	A3	101110	Continuous	370	Steady	Air horn (US A)										

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 20oC operating temperature.