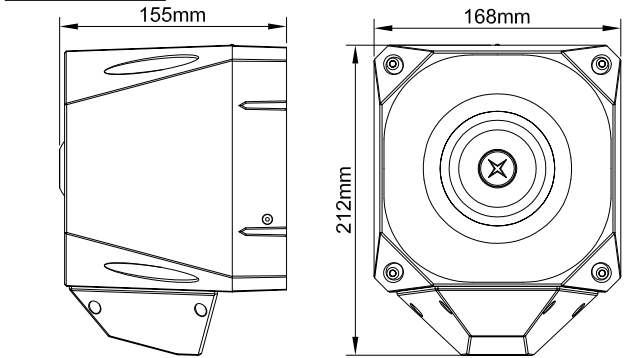


ASSERTA Industrial Sounder/Beacon (24Vdc)

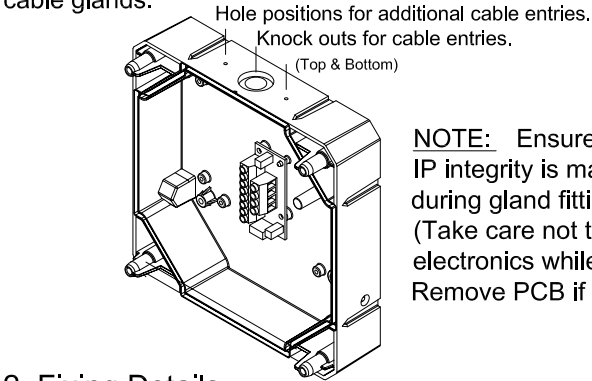
Specification	24Vdc Sounder	24Vdc Beacon
Operation	Continuous	Continuous
Operating Voltage Range	18Vdc-30Vdc	18Vdc-30Vdc
Rating	N/A	3.5 Joules
Sound Output @ 1m	See table overleaf	N/A
Current Consumption	See table overleaf	See table below
Tones	42 see table overleaf	N/A
Operating Temperature	-25°C to +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



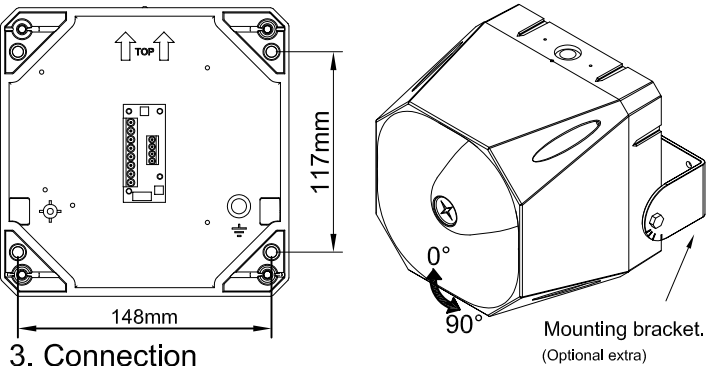
1. Installation

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

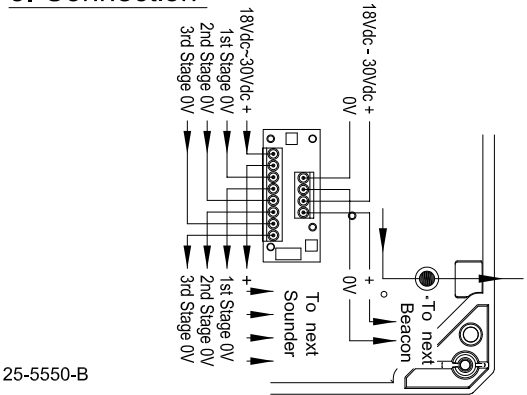


2. Fixing Details

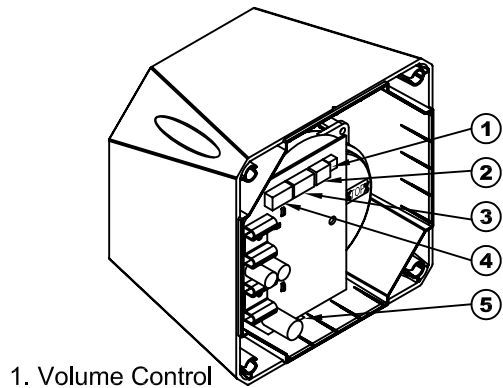
Fix base to wall in 4 positions.



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)

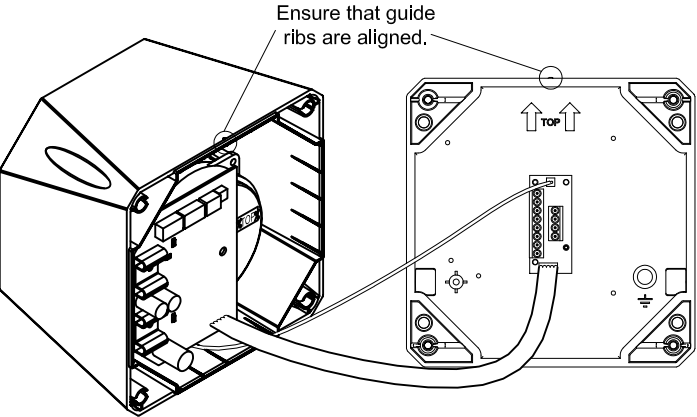
See table overleaf. (Stage 3 Tone is dependent on the setting of switch 2)

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	dB(A)	Average current @ max vol @ 24VDC	*24Vdc on axis @ 1M see notes	dB(A)	EN54-3 30Vdc see notes	dB(A)
A 1	A14	123456	Alternating	970 then 800	2Hz (250ms-250ms)	EVIAN		108	111	*	117	450	117	*	*	*
A 2	A14	111111	Sweep	800 to 970	7Hz (7/s)			103	112	*	120	450	120	*	*	*
A 3	A14	111101	Sweep	800 to 970	1Hz (1/s)			122	106	*	109	445	109	*	*	116
A 4	A9	111100	Continuous	2850	S steady			119	103	*	109	447	109	*	*	*
A 5	A4	111011	Sweep	2400 to 2850	7Hz			121	105	*	110	446	110	*	*	*
A 6	A4	111010	Sweep	2400 to 2850	1Hz			115	111	112	119	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	119	340	119	116	*	116
A 8	A14	111000	Sweep (DIN)	1200 to 500	1Hz	Din / PFEER (PAPA)		115	111	112	119	340	119	116	*	116
A 9	A4	110111	Alternating	2850 then 2400	2Hz (250ms-250ms)			121	108	*	112	450	112	*	*	*
A 10	A14	110110	Intermittent	970	0.5Hz (1s On/1s Off)	PFEER alert		71	108	*	117	229	117	*	*	*
A 11	A14	110101	Alternating	970 then 800	1Hz (500ms-500ms)			106	109	*	116	375	116	*	*	*
A 12	A4	110100	Intermittent	2850	0.5Hz (1s On/1s Off)			89	107	*	109	235	109	*	*	*
A 13	A14	110011	Intermittent	970	0.8Hz (250ms On/1s Off)	AS P		35	108	*	117	100	117	*	*	*
A 14	A8	110010	Continuous	970	S steady	PFEER - Toxic gas		104	109	111	117	450	117	115	*	115
A 15	A14	110001	Alternating	440 then 554	100ms-400ms	France NFS 32 S 32-001		76	106	*	114	294	114	*	*	*
A 16	A14	110000	Intermittent	660	3.3Hz (150ms On/150ms Off)	Swedish (Air raid)		60	106	*	114	232	114	*	*	*
A 17	A14	101111	Intermittent	660	0.28Hz(1.8s On/1.8s Off)	Swedish (Local warning)		88	106	*	115	220	115	*	*	*
A 18	A14	101110	Intermittent	660	0.05Hz (6.5s On/13s Off)	Swedish (Pre-mess)		101	106	*	115	150	115	*	*	*
A 19	A1	101101	Continuous	660	S steady	Swedish (All clear)		103	107	*	116	429	116	*	*	*
A 20	A19	101100	Alternating	440 then 554	0.5Hz (1s On/1s Off)	Swedish (Turn out)		83	106	*	115	312	115	*	*	*
A 21	A4	101011	Intermittent	660	1Hz (500ms-500ms)	Swedish		66	106	*	115	220	115	*	*	*
A 22	A4	101010	Intermittent	2850	4Hz (150ms On/100ms Off)			83	105	*	108	286	108	*	*	*
A 23	A14	101001	Sweep	800 to 970	50Hz			102	109	*	117	419	117	*	*	*
A 24	A4	101000	Sweep	2400 to 2850	50Hz			120	106	*	110	440	110	*	*	*
A 25	A14	100111	Intermittent	970	3 x 500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal		62	109	*	117	180	117	*	*	*
A 26	A4	100110	Intermittent	2850	3 x 500ms pulses followed by 1.5s silence then repeat	ISO 8201/US Temporal		64	107	*	109	180	109	*	*	*
A 27	A6	100101	Continuous	4000	S steady			109	101	*	105	450	105	*	*	*
A 28	A14	100100	Alternating	970 then 800	2Hz (250ms-250ms)			106	109	*	116	414	116	*	*	*
A 29	A14	100011	Alternating	990 then 650	2Hz (250ms-250ms) (Symphoni tones)			104	109	111	117	444	117	115	*	115
A 30	A14	100010	Alternating	510 then 610	2Hz (250ms-250ms) (S quashmi Micro tones)			96	107	109	116	370	116	113	*	113
A 31	A14	100001	Sweep	300 to 1200	1Hz			84	110	*	118	285	118	*	*	*
A 32	A3	100000	Continuous	Bell	S steady	See attached for waveform details		120	111	*	117	450	117	*	*	*
A 33	A14	111111	Intermittent	Bell	3 x 500ms pulses followed by 1.5s silence then repeat	Bell /US temporal		69	111	*	117	180	117	*	*	*
A 34	A4	111110	Alternating	1000 then 2000	1Hz (500ms-500ms)	Singapore		112	107	*	115	450	115	*	*	*
A 35	A14	111101	Intermittent	420	6 step ramped start pulsed @ 0.625S ON /0.625S OFF	Australian alert		46	108	*	116	140	116	*	*	*
A 36	A14	111100	Sweep	500 to 1200	Sweep 3:7s followed by 0.25s gap	Australian evac		91	109	*	117	340	117	*	*	*
A 37	A14	11011	Sweep	1400 to 1600	Sweep up 1s, sweep down 0.5s	NF C 48-265		122	108	*	116	448	116	*	*	*
A 38	A14	11010	Sweep	500 to 1200	Sweep UP & DOWN over 3s	Siren		94	109	*	117	310	117	*	*	*
A 39	A14	11001	Intermittent	720	0.7s ON, 0.3OFF	German ind alarm		90	110	*	117	310	117	*	*	*
A 40	A14	11000	Sweep	422 to 775	Sweep for 0.85s, 1s delay, repeat	NFPA Whoop		60	109	*	118	180	118	*	*	*
A 41	A3	10111	Continuous	470	S steady	Horn (USA)		85	104	*	114	340	114	*	*	*
A 42	A3	10110	Continuous	370	S steady	Air horn (US A)		76	104	*	113	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 20oC operating temperature.