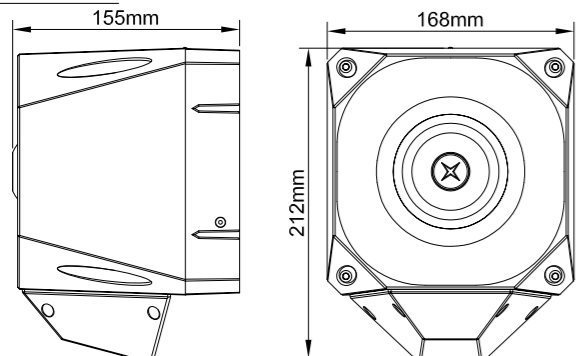


ASSERTA Industrial Sounder/Beacon (24Vdc)



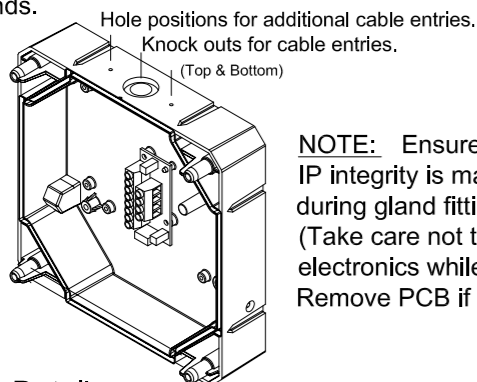
Specification	24Vdc Sounder	24Vdc Beacon
Operation	Continuous	Continuous
Operating Voltage Range	18Vdc-30Vdc	18Vdc-30Vdc
Rating	N/A	3.5 Joules
Sound Output @ 1m	See table overleaf	See table below
Current Consumption	42 see table overleaf	N/A
Tones	-25°C to +75°C	-25°C to +75°C
Operating Temperature	Polarised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

Dimensions



1. Installation

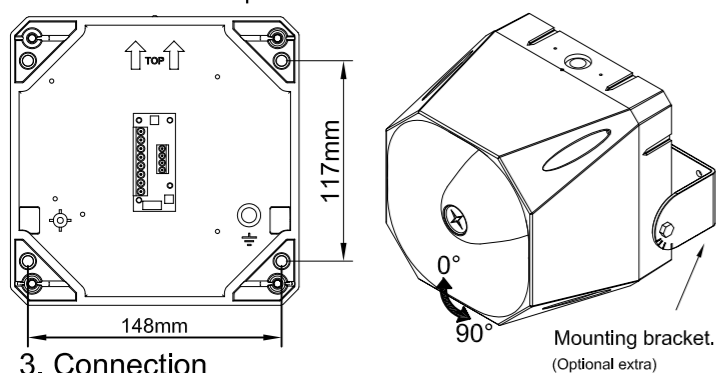
Knockout or drill required cable gland holes, and fix required cable glands.



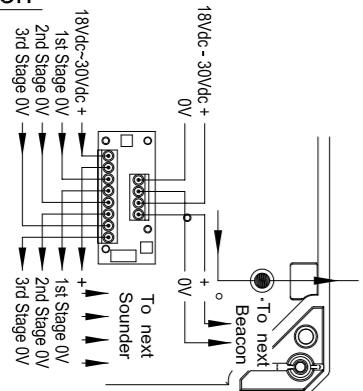
NOTE: Ensure that the IP integrity is maintained during gland fitting. (Take care not to disturb the electronics while drilling. Remove PCB if required)

2. Fixing Details

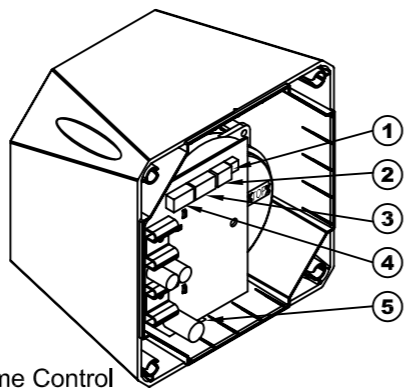
Fix base to wall in 4 positions.



3. Connection



4. Sounder Settings



1. Volume Control

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

2. Switch 1 (Time out setting)

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)

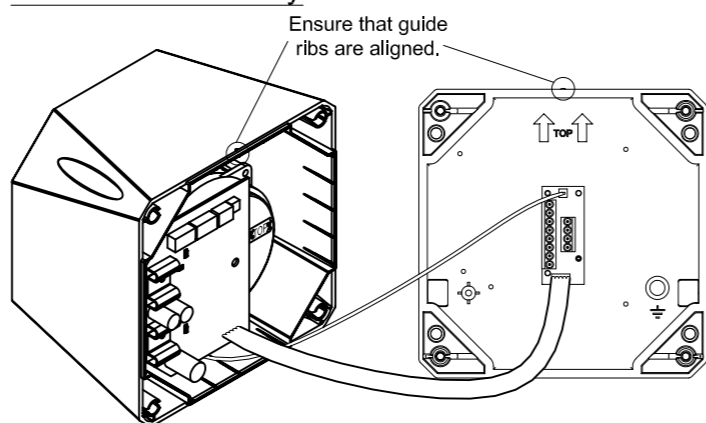
See table overleaf. (Stage 3 Tone is dependent on the setting of switch 2)

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



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.

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



CE marking under CPD was affixed on: (see batch code on product) AS 110 0832-CPD-0568 Fulleon Ltd, Cwmbran, South Wales, UK. AS 120 0832-CPD-0567

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

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 soulder 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 20°C operating temperature.