

Sounder Beacons

Asserta Sounder Beacon



The 120dB (A) Asserta Industrial warning sounder beacon is designed to cope with harsh environments requiring protection to IP66. Design features are incorporated to ensure safe and easy installation, while providing flexibility with fewer product variants.

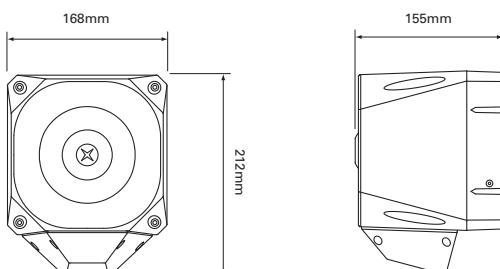
Features

- Powerful 120dB(A) output
- 3 stage alarm and time out function
- 42 alarm tones
- Asymmetric beacon

Benefits

- Maximum sound output for high noise environments
- 3 levels of alarm for differing warning states
- Large range of tone options
- Efficient use of light reduces current input generating the same light output as a 5j beacon

Dimensions



Technical Specification

Voltage	18 - 30Vdc 230Vac
Current Sounder	110dB(A) 105mA @ 24Vdc (Typical Tone 3) 120dB(A) 450mA @ 24Vdc (Typical Tone 3)
Current Beacon	120 - 620mA @ 24Vdc (dependant on setting)
Output	110dB(A) 120dB(A)
Tones	42
Alarm Stages	3
Flash Power	3.6j @ 24Vdc 2.0j @ 230Vac
Flash Rate	1Hz (adjustable on 24Vdc)
Monitoring	Reverse polarity (dc version)
Temperature	- 25°C to + 70°C
Protection	IP66
Construction	ABS, PC
Weight	1.8Kg (dc version) 2.5Kg (mains version)
Colour	Red or grey
Lens colour	Red, amber, blue or clear

Asserta Sounder Beacon Grey



Catalogue Numbers

Reference	Cat No	Description
AS/SB/24/120/R/RL	7021121FUL-0004X	Asserta Sounder/Beacon 24v Red 120dB Red Lens
AS/SB/24/120/G/AL	7092275FUL-0152X	Asserta Sounder/Beacon 24v Grey 120dB Amber Lens



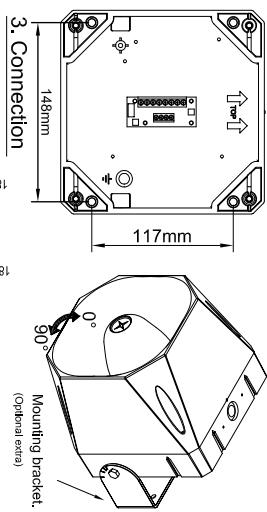
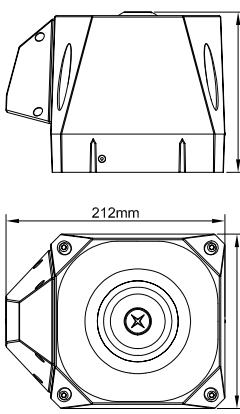
ASSERTA Industrial Sounder/Beacon (24Vdc)

Specification

LRAS/SB/24/1120/R/RL

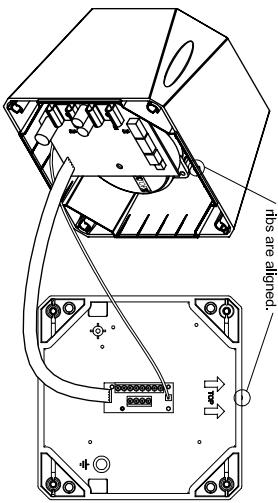
24Vdc Sounder	24Vdc Beacon
Continuous Rating	Continuous Rating
18Vdc-30Vdc NA	18Vdc-30Vdc NA
Sound Output @ 1m Current	3.5 Joules
Tones See table overleaf	See table overleaf
Operating Temperature -25°C to +75°C	Operating Temperature -25°C to +75°C
Line Monitoring Method Construction mode	Polarised Input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

Dimensions

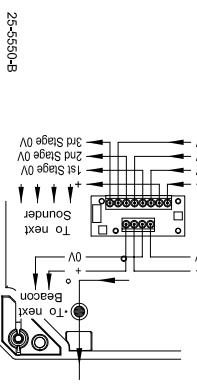


2. Fixing Details

Fix base to wall in 4 positions.



3. Connection



1. Installation

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

Hole positions for additional cable entries.

(Top & Bottom)

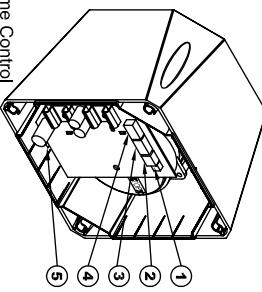
NOTE: Ensure that the IP integrity is maintained during gland fitting.
(Take care not to disturb the electronics while drilling.)
Remove PCB if required.

1. Volume Control Turn dial clockwise to increase volume.
2. Switch 1 (Time out setting) See table overleaf

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	220-520mA

3. Switch 2 (Stage 1 tone selection) See table overleaf
4. Switch 3 (Stage 2 tone selection) See table overleaf

5. Beacon Switch (24Vdc only) See table below



5. Sounder Assembly

Ensure that guide pins are aligned.

Tone Description

Tone Description				Depiction	ma	dB(A)	ma	dB(A)	Average current @ max vol @ 24VDC	EN54-3 30Vdc see notes	Average current @ max vol @ 24VDC	EN54-3 30Vdc see notes	
A 1	A 14	111111	Alternating	EVIAN	2Hz (250ms-250ms)	108	111	*	450	117	*	450	117
A 2	A 14	111110	Sweep	7Hz (7s)	103	112	*	450	120	*	450	120	
A 3	A 14	111101	Sweep	1Hz (1s)	105	112	112	450	120	116	450	120	
A 4	A 9	111100	Continuous	Steady	122	106	*	445	109	*	445	109	
A 5	A 4	111011	Sweep	2400 to 2850	119	103	*	447	109	*	447	109	
A 6	A 4	111010	Sweep	2400 to 2850	121	105	*	446	110	*	446	110	
A 7	A 14	111001	Slow whoop	500 to 1200	115	111	112	340	119	116	340	119	
A 8	A 14	111000	Sweep (DIN)	1200 to 500	115	111	112	430	119	116	430	119	
A 9	A 4	110111	Alternating	2850 then 2400	121	108	*	450	112	*	450	112	
A 10	A 14	110110	Intermittent	970	71	108	*	229	117	*	229	117	
A 11	A 14	110101	Alternating	970 then 800	106	109	*	375	116	*	375	116	
A 12	A 4	110100	Intermittent	2850	89	107	*	235	109	*	235	109	
A 13	A 14	110011	Intermittent	970	35	108	*	100	117	*	100	117	
A 14	A 8	110010	Continuous	Steady	104	109	111	450	117	115	450	117	
A 15	A 14	110001	Alternating	440 then 554	76	106	*	294	115	*	294	115	
A 16	A 14	110000	Intermittent	660	60	106	*	232	114	*	232	114	
A 17	A 14	101111	Intermittent	660	88	106	*	220	115	*	220	115	
A 18	A 14	101110	Intermittent	660	101	106	*	150	115	*	150	115	
A 19	A 1	101101	Continuous	660	103	107	*	429	116	*	429	116	
A 20	A 19	101100	Alternating	440 then 554	83	106	*	312	115	*	312	115	
A 21	A 4	101011	Intermittent	660	66	106	*	220	115	*	220	115	
A 22	A 4	101010	Intermittent	2850	83	105	*	286	108	*	286	108	
A 23	A 14	101001	Sweep	800 to 970	102	109	*	419	117	*	419	117	
A 24	A 4	101000	Sweep	2400 to 2850	120	106	*	440	110	*	440	110	
A 25	A 14	100111	Intermittent	970	62	109	*	180	117	*	180	117	
A 26	A 4	100110	Intermittent	2850	64	107	*	180	109	*	180	109	
A 27	A 14	100101	Continuous	4000	109	101	*	450	105	*	450	105	
A 28	A 14	100100	Alternating	970 then 800	106	109	*	414	116	*	414	116	
A 29	A 14	100011	Alternating	990 then 650	104	109	111	444	117	115	444	117	
A 30	A 14	100010	Alternating	510 then 610	96	107	109	370	116	113	370	116	
A 31	A 14	100001	Sweep	300 to 1200	84	110	*	285	118	*	285	118	
A 32	A 3	100000	Continuous	Bell	120	111	*	450	117	*	450	117	
A 33	A 14	111111	Intermittent	Bell	69	111	*	180	117	*	180	117	
A 34	A 4	111110	Alternating	1000 then 2000	112	107	*	450	115	*	450	115	
A 35	A 14	111101	Intermittent	420	46	108	*	140	116	*	140	116	
A 36	A 14	111100	Sweep	500 to 1200	91	109	*	340	117	*	340	117	
A 37	A 14	110111	Sweep	1400 to 1600	122	108	*	448	116	*	448	116	
A 38	A 14	110110	Sweep	500 to 1200	94	109	*	310	117	*	310	117	
A 39	A 14	110001	Intermittent	720	90	110	*	310	117	*	310	117	
A 40	A 14	110000	Sweep	422 to 775	60	109	*	180	118	*	180	118	
A 41	A 3	101111	Continuous	470	85	104	*	340	114	*	340	114	
A 42	A 3	101110	Continuous	370	76	104	*	272	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 20°C operating temperature.