

# AB121STR Alarm Sounder & Xenon Strobe

The AB121STR combines a heavy duty 126dB(A) alarm sounder with a powerful 15J Xenon strobe warning beacon featuring a single and double flash patterns.

The beacon and sounder can be operated from the same power source or controlled individually.

The AB121STR Xenon beacon component features an automatically synchronised flash rate of 1Hz (60 flashes per minute) as standard. The DC voltage versions also have user selectable 1.5Hz (90 flashes per minute) and double-strike flash rates.

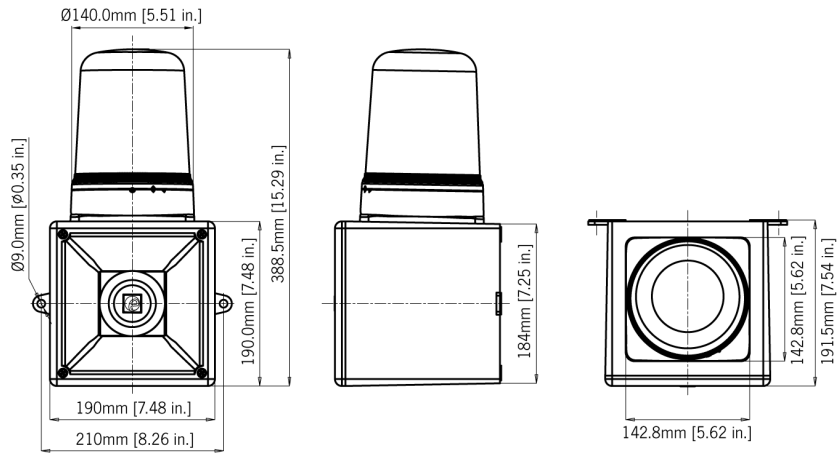
## Features

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- Stage Programmable 4 stage/channel version available:
  - 45 alarm tones
  - 4 remotely selectable stages
  - Any tone can be assigned to any stage
  - User configurable continuous frequency tone

## Approvals

- Alarm sounder (A121): EN54-3 (CPD 89/106/EEC).





## Specification

### Sounder:

Maximum output:	126dB(A) @ 1 metre [117dB(A) @ 10ft/3m]
Nominal output:	121dB(A) @ 1m +/- 3dB - Tone 2 [112dB(A) @ 10ft/3m]
No. of tones:	45 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 121dB(A); Min. 112dB(A) - Tone 2
Effective range:	300m @ 1KHz

### Beacon:

Energy:	15 Joules
Flash rate:	1Hz (60 fpm)
	DC units: Optionally 1.5Hz & double strike
Synchronisation:	1Hz flash rate automatically synchronised
Peak Candela:	1,500,000 cd - calculated from energy (J)
Effective Intensity cd:	750 cd - calculated from energy (J)
Peak Candela:	94,790 cd* - measured ref. to I.E.S.
Effective Intensity cd:	500 cd* - measured ref. to I.E.S.

Lens colours: Amber, Blue, Clear, Green, Red & Yellow

Tube life: Emissions are reduced to 70% after 5 million flashes

### General:

Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc)
Voltages AC:	115V ac; 230V ac
Ingress protection:	IP65
Enclosure material:	High impact UL94 V0 & 5VA FR ABS
Lens material:	UV stable PC UL94 V0 FR Bayonet lens fixing Anti-tamper locking screw
Enclosure colour:	Red (RAL3000) & Grey (RAL7038)
Cable entries:	2 x M20 clearance gland knockouts in side & back
Terminals:	0.5 to 4.0mm <sup>2</sup> cables.
Operating temp:	-25 to +55°C
Storage temp:	-40 to +70°C
Relative humidity:	90% at 20°C.
Weight:	DC: 2.10kg AC:2.70kg

## Part Codes

### Version: Part code:

24V dc	AB121STRDC24[x]/[y]
48V dc	AB121STRDC48[x]/[y]
115V ac	AB121STRAC115[x]/[y]
230V ac	AB121STRAC230[x]/[y]

[x] = Enclosure: G: Grey, R: Red

[y] = Lens: A: Amber, B: Blue, C: Clear  
G: Green R: Red, Y: Yellow

Suffix part number with '-P' for stage programmable, 4 stage, 45 tone version.

## Alarm Sounder

Version:	Voltage:	Current:
24V dc	10-30V dc	950mA*
48V dc	35-60V dc	600mA*
115V ac	50/60Hz +/-10%	240mA
230V ac	50/60Hz +/-10%	120mA

\* current at nominal voltage on Tone 2

## Xenon Beacon

Version:	Voltage:	Current:
24V dc	20-28V dc	870mA
48V dc	42-54V dc	480mA
115V ac	50/60Hz +/-10%	400mA
230V ac	50/60Hz +/-10%	225mA

\* current at 24V dc

## Tone table

### S 1 Description

T 1	340 Hz Continuous
T 2	800/1000Hz @ 0.25 sec Alternating
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop
T 4	800/1000Hz @ 1Hz Sweeping
T 5	2400Hz Continuous
T 6	2400/2900Hz @ 7Hz Sweeping
T 7	2400/2900Hz @ 1Hz Sweeping
T 8	500/1200/500Hz @ 0.3Hz Sweeping
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.
T 10	2400/2900Hz @ 2Hz Alternating
T 11	1000Hz @ 1Hz Intermittent
T 12	800/1000Hz @ 0.875Hz Alternating
T 13	2400Hz @ 1Hz Intermittent
T 14	800Hz 0.25sec on, 1 sec off Intermittent
T 15	800Hz Continuous
T 16	660Hz 150mS on, 150mS off Intermittent
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001
T 18	660Hz 1.8sec on, 1.8sec off Intermittent
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265
T 20	660Hz Continuous
T 21	554Hz/440Hz @ 1Hz Alternating
T 22	544Hz @ 0.875 sec. Intermittent
T 23	800Hz @ 2Hz Intermittent
T 24	800/1000Hz @ 50Hz Sweeping
T 25	2400/2900Hz @ 50Hz Sweeping
T 26	Bell
T 27	554Hz Continuous
T 28	440Hz Continuous
T 29	800/1000Hz @ 7Hz Sweeping
T 30	300Hz Continuous
T 31	660/1200Hz @ 1Hz Sweeping
T 32	Two T chime.

### S 1 Description

T 33	745Hz @ 1Hz Intermittent
T 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore
T 35	420Hz @ 0.625 sec Australian Alert
T 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.
T 37	1000Hz Continuous - PFEER Toxic Gas
T 38	2000Hz Continuous
T 39	800Hz 0.25sec on, 1 sec off Intermittent
T 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001
T 41	Motor Siren - slow rise to 1200 Hz
T 42	Motor Siren - slow rise to 800 Hz
T 43	1200 Hz Continuous
T 44	Motor Siren - slow rise to 2400 Hz
T 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. ...