

# 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.

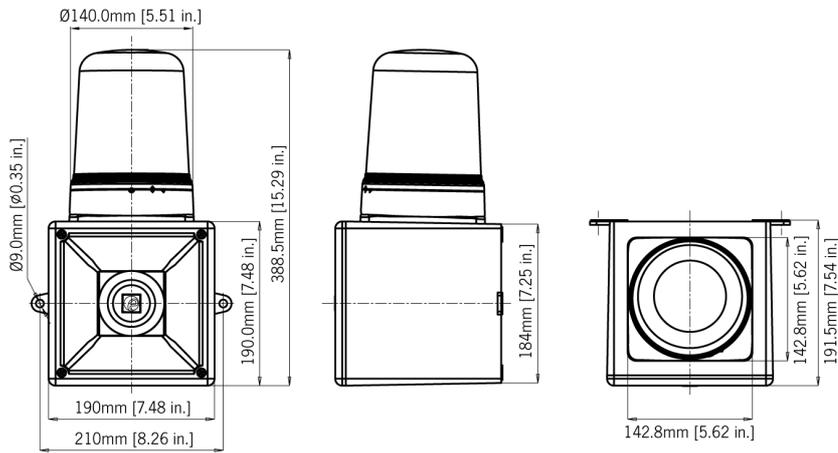
## Features

- 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.
- 'Programmable' 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): VdS approved to 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 8 million flashes

### General:

Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc)
Voltages AC:	115V ac; 230V ac
Ingress protection:	IP65
Housing material:	High impact UL94 V0 & 5VA FR ABS
Lens material:	UV stable PC UL94 V0 FR Bayonet lens fixing, Anti-tamper locking screw.
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] = Housing:	G: Grey, R: Red
[y] = Lens:	A: Amber, B: Blue, C:Clear G: Green R: Red, Y: Yellow

Suffix part number with 'P' for 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	S 2	S 1	Description	S 2
Tone 1	Tone 2	Tone 5	Tone 33	Tone 2	Tone 5
Tone 2	Tone 17	Tone 5	Tone 34	Tone 38	Tone 45
Tone 3	Tone 2	Tone 5	Tone 35	Tone 36	Tone 5
Tone 4	Tone 6	Tone 5	Tone 36	Tone 35	Tone 5
Tone 5	Tone 3	Tone 20	Tone 37	Tone 9	Tone 45
Tone 6	Tone 7	Tone 5	Tone 38	Tone 34	Tone 45
Tone 7	Tone 10	Tone 5	Tone 39	Tone 23	Tone 17
Tone 8	Tone 2	Tone 5	Tone 40	Tone 31	Tone 27
Tone 9	Tone 15	Tone 2	Tone 41	Tone 2	Tone 5
Tone 10	Tone 7	Tone 5	Tone 42	Tone 2	Tone 5
Tone 11	Tone 2	Tone 5	Tone 43	Tone 2	Tone 5
Tone 12	Tone 4	Tone 5	Tone 44	Tone 2	Tone 5
Tone 13	Tone 15	Tone 5	Tone 45	Tone 38	Tone 34
Tone 14	Tone 4	Tone 5	Tone 27		
Tone 15	Tone 2	Tone 5			
Tone 16	Tone 18	Tone 5			
Tone 17	Tone 2	Tone 27			
Tone 18	Tone 2	Tone 5			
Tone 19	Tone 2	Tone 5			
Tone 20	Tone 2	Tone 5			
Tone 21	Tone 2	Tone 5			
Tone 22	Tone 2	Tone 5			
Tone 23	Tone 6	Tone 5			

**AUTHORIZED DISTRIBUTOR:**  
**GasDetectorsUSA.com**  
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**832-615-3588**

### E2S Warning Signals

None. In the event of any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.

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