

AB112LDA Alarm Sounder & LED Beacon

The AB112LDA combines a heavy duty 119dB(A) alarm sounder with a powerful multi-function L.E.D beacon.

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

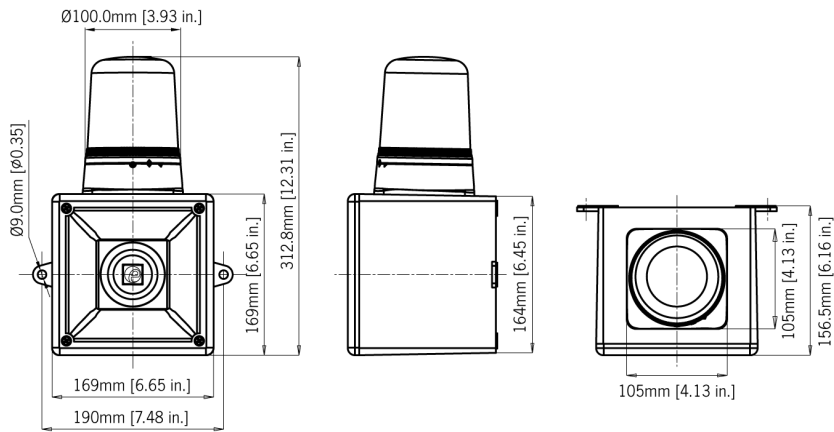
Features

- 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 (A112N): EN54-3 (CPD 89/106/EEC).





Specification

Sounder:

Maximum output:	119dB(A) @ 1 metre
Nominal output:	112dB(A) @ 1m +/- 3dB - Tone 2
No. of tones:	45 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 112dB(A); Min.103dB(A) - Tone 2
Effective range:	125m @ 1KHz

Beacon:

Light source:	Array of 16 multi-function high power L.E.D's
Operating modes:	4 rotating configurations 4 flashing configurations Steady mode for indicator / status applications
Peak/Effective Intensity cd:	19 cd* - measured ref. to I.E.S.
No. of stages:	DC unit also features a remotely selectable 2nd and 3rd stage flash pattern.
L.E.D /lens colours:	Amber, Blue, Clear (white L.E.D.s), Green, Red & Yellow

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 entries in side & back
Terminals:	0.5 to 4.0mm ² cables.
Operating temp:	-25 to +55°C
Storage temp:	-40 to +70°C
Relative humidity:	90% at 20°C.
Weight:	DC: 2.00kg AC:2.30kg

*Candela measurements representative of performance with amber lens at optimum voltage.

*SPL data +/-3dB(A). Measured at optimum voltage.

Part Codes

Version:	Part code:
24V dc	AB112LDADC24[x]/[y]
48V dc	AB112LDADC48[x]/[y]
115V ac	AB112LDAAC115[x]/[y]
230V ac	AB112LDAAC230[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	200mA*
48V dc	35-60V dc	120mA*
115V ac	50/60Hz +/-10%	100mA
230V ac	50/60Hz +/-10%	60mA

* current at nominal voltage on Tone 2

L.E.D. Beacon

Version:	Voltage:	Current:
24V dc	10-50V dc	130mA*
48V dc	10-50V dc	130mA*
115V ac	50/60Hz +/-10%	90mA
230V ac	50/60Hz +/-10%	50mA

* current at 24V dc

Beacon modes

Mode:	Stage 1	Stage2 [DC only]	Stage3 [DC only]
1	All L.E.D's on	Alternate Side Flash 2Hz	Double Strike Flash 2Hz
2	Rotating: Slow1	Alternate Side Flash 2Hz	All L.E.D's on
3	Single Strike Flash 2Hz	Rotating: Fast 2	All L.E.D's on
4	Rotating: Fast 1	Single Strike Flash 2Hz	All L.E.D's on
5	Rotating: Slow 2	Double Strike Flash 1Hz	All L.E.D's on
6	Double Strike Flash 2Hz	Rotating: Fast 2	All L.E.D's on

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. ...