

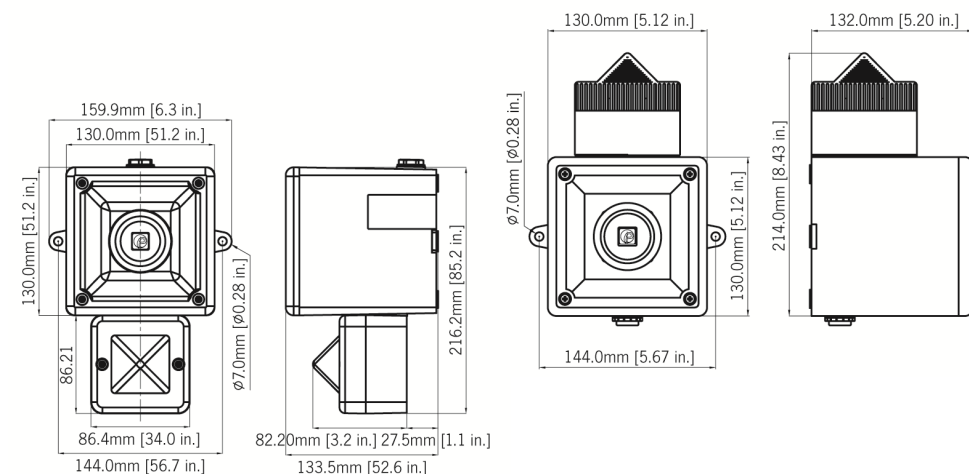
## Features

- Automatic synchronisation on multi-sounder system.
- High output Xenon beacon
- DC voltage units feature multiple flash rates.
- 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

- EN54-3 & EN54-23 (CPR 305/2011/EU).
- UL & cULs approved: General signalling use.
- GOST-R approved. Cert: POCC GB-JB05-H00144.
- Marine Equipment Directive (MED) Certificate: MEDB00001EH





## Specification

### Sounder:

Maximum output:	112dB(A) @ 1 metre [103dB(A) @ 10ft/3m]
Nominal output:	105dB(A) @ 1m +/- 3dB – Tone 2 [96dB(A) @ 10ft/3m]
No. of tones:	32 (UK00A / PFEER compliant)
No. of stages:	3
Volume control:	Max. 105dB(A); Min. 96dB(A) – Tone 2
Effective range:	60m/197ft @ 1KHz
Stage switching:	Negative – Reverse polarity stage switching on DC units.

### Beacon:

Energy:	5 Joules (5Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	500,000 cd – calculated from energy (J)
Effective Intensity:	250 cd – calculated from energy (J)
Peak Candela:	86,935 cd* – measured ref. to I.E.S.
Effective Intensity:	200 cd* – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Magenta, 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)
	[DC units can use 24V ac for single stage applications.]
Voltages AC:	24V ac; 115V ac; 230V ac
Ingress protection:	IP66
Enclosure material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Red (RAL3000), grey (RAL7038) & white.
Cable entries:	2 x M20 clearance gland entries in side & back
Terminals:	0.5 to 1.5mm <sup>2</sup> cables.
Operating temp:	-25 to +55°C [-13° to +131°F]
Storage temp:	-40 to +70°C [-40° to +158°F]
Relative humidity:	90% at 20°C [68°F]
Weight:	DC: 0.95kg/2.1lbs AC: 1.20kg/2.64lbs

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

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

## Part Codes

### Version:

12V dc	AL105NXDC012[x]/[y]
24V dc	AL105NXDC024[x]/[y]
48V dc	AL105NXDC048[x]/[y]
24V ac	AL105NXAC024[x]/[y]
115V ac	AL105NXAC115[x]/[y]
230V ac	AL105NXAC230[x]/[y]

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

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

Suffix part number with 'P' for programmable, 4 stage, 45 tone version (not available with UL approval or EN54-3).

Suffix part number with 'F' for forward facing Xenon beacon.

Note: Standard beacon configuration is downward facing.

Suffix part number with 'UL' for UL approved version.

Suffix part number with 'M' for MED approved version [24V dc unit, Clear lens only, Forward facing]

CPR – EN54-3 & EN54-23:

Part codes:	AL105NXDC024[x]/C-F, AL105NXDC048[x]/C-F
Environmental class:	Type B – for outdoor use
Visual range:	Category W-2.4-4.8 (24V dc) Category W-2.5-5.0 (48V dc)
Signal colour:	Clear (1Hz)

## Alarm Sounder

Version:	Voltage:	Current :
12V dc	10-30V dc	25mA*
24V dc	10-30V dc	25mA*
48V dc	35-60V dc	50mA*
24V ac	50/60Hz +/-10%	40mA
115V ac	50/60Hz +/-10%	20mA
230V ac	50/60Hz +/-10%	15mA

\* current at nominal voltage on Tone 2

## Xenon Beacon

Version:	Voltage:	Current:
12V dc	10-14V dc	500mA
24V dc	20-28V dc	250mA

## Tone table

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