

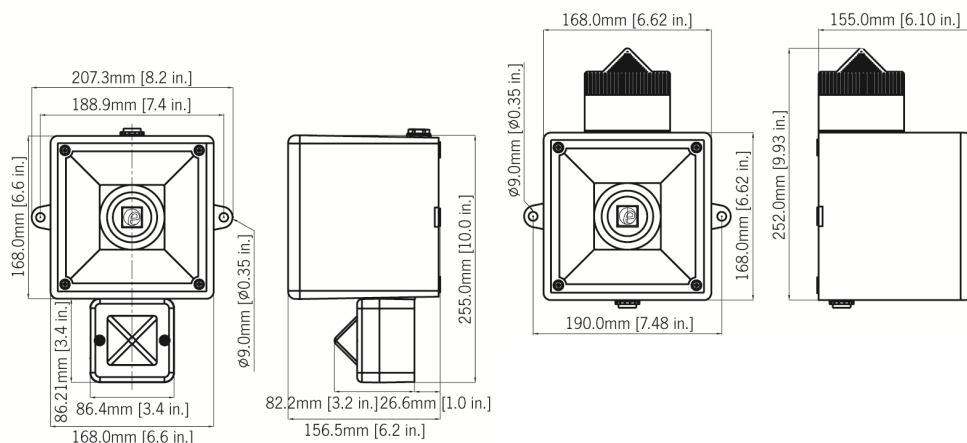
## Features

- 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: POCC GB-JB05-H0014.
- Marine Equipment Directive (MED) Certificate: MEDB00001EH





## Specification

### Sounder:

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Maximum output:  | 119dB(A) @ 1 metre [110dB(A) @ 10ft/3m]                  |
| Nominal output:  | 112dB(A) @ 1m +/- 3dB - Tone 2 [103dB(A) @ 10ft/3m]      |
| No. of tones:    | 45 (UKOOA / PFEER compliant)                             |
| No. of stages:   | 3                                                        |
| Volume control:  | Max. 112dB(A); Min. 100dB(A) - Tone 2                    |
| Effective range: | 125m/410ft @ 1KHz                                        |
| 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                                 |
| 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:

|                     |                                                |
|---------------------|------------------------------------------------|
| Ingress protection: | IP66                                           |
| Enclosure material: | High impact UL94 V0 & 5VA FR ABS               |
| Enclosure colour:   | Red (RAL3000)                                  |
| Cable entries:      | 2 x M20 clearance gland entries in side & back |
| Terminals:          | 0.5 to 4.0mm <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: 2.00kg/4.4lbs AC:2.30kg/5.06lbs            |

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

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

## Part Codes

### Version:

|         |                     |
|---------|---------------------|
| 12V dc  | AL112NXDC012[x]/[y] |
| 24V dc  | AL112NXDC024[x]/[y] |
| 48V dc  | AL112NXDC048[x]/[y] |
| 24V ac  | AL112NXAC024[x]/[y] |
| 115V ac | AL112NXAC115[x]/[y] |
| 230V ac | AL112NXAC230[x]/[y] |

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

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

Suffix code with 'P' for stage programmable, 4 stage, 45 tone version (not available with UL approval).

Suffix code with 'F' for forward facing Xenon beacon. Note: Standard is downward facing.

Suffix code 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:          | AL112NXDC024[x]/C-F, AL112NXDC048[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: |
|-----------|---------|-----------|----------|
| 12/24V dc |         | 10-30V dc | 200mA*   |
| 48V dc    |         | 35-60V dc | 120mA*   |
| 24V ac    | 50/60Hz | +/-10%    | 500mA    |
| 115V ac   | 50/60Hz | +/-10%    | 100mA    |
| 230V ac   | 50/60Hz | +/-10%    | 60mA     |

\* current at nominal voltage on Tone 2

## Xenon Beacon

| Version: |         | Voltage:  | Current: |
|----------|---------|-----------|----------|
| 12V dc   |         | 10-14V dc | 500mA    |
| 24V dc   |         | 20-28V dc | 250mA    |
| 48V dc   |         | 42-54V dc | 175mA    |
| 24V ac   | 50/60Hz | +/-10%    | 300mA    |
| 115V ac  | 50/60Hz | +/-10%    | 70mA     |

## 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 |

| S 1  | Description                                      | S 2  | S 3  |
|------|--------------------------------------------------|------|------|
| T 33 | 745Hz @ 1Hz Intermittent                         | T 2  | T 5  |
| T 34 | 1000 & 2000Hz @ 0.5 sec Alternating - Singapore  | T 38 | T 45 |
| T 35 | 420Hz @ 0.625 sec Australian Alert               | T 36 | T 5  |
| T 36 | 500-1200Hz 3.75sec /0.25sec. Australian Evac.    | T 35 | T 5  |
| T 37 | 1000Hz Continuous - PFEER Toxic Gas              | T 9  | T 45 |
| T 38 | 2000Hz Continuous                                | T 34 | T 45 |
| T 39 | 800Hz 0.25sec on, 1 sec off Intermittent         | T 23 | T 17 |
| T 40 | 544Hz (100mS)/440Hz (400mS) - NF S 32-001        | T 31 | T 27 |
| T 41 | Motor Siren - slow rise to 1200 Hz               | T 2  | T 5  |
| T 42 | Motor Siren - slow rise to 800 Hz                | T 2  | T 5  |
| T 43 | 1200 Hz Continuous                               | T 2  | T 5  |
| T 44 | Motor Siren - slow rise to 2400 Hz               | T 2  | T 5  |
| T 45 | 1KHz 1s on, 1s off Intermittent - PFEER Gen. ... | T 38 | T 34 |