

# Conventional Audible Visual Devices

## Sounder Beacons EN54-23 Approved VAD's

### > Product Overview

KAC's Conventional Sounder Beacon is ideal for applications where a dual purpose audible and visual alarm device is required. The product features a new folded horn design, high output LEDs, advanced optics and an innovative lens design, providing outstanding sound output and omni-directional light coverage at low current draw. Specifically designed and approved to meet both EN54-3 and EN54-23, the ENscape Sounder Beacon delivers quality, reliability and extended operational life.



### ENscape Sounder Beacon Benefits

#### > Simple, Fast, Flexible Installation

- Omni directional light coverage eliminates need for device orientation.
- First fix capability allows electrical continuity testing prior to device fitting.
- Deep base option with multiple cable entries for flexible installation.
- Designed with a full range of common fixing centres.
- Positive fit engagement & feedback of base with device for easy installation.

#### Universal Device

- Tailor made range; selection according to EN54-23 C W & O categories.
- Suitable for wall and ceiling mount applications.
- Global tone set: 32 tones including a new bell tone.
- Range of installation and base options, for indoor and applications up to IP65.
- Operates on 12V and 24V systems, making the range suitable for use in fire & security applications.

#### Outstanding Performance

- Approved to EN54-3 and EN54-23, C W & O categories.
- 32 tones all approved to EN54-3.
- Advanced optics ensure superior light coverage.
- Synchronised flash exceeds EN54-23 standard.
- Choice of white or red light flash options.
- Soft start feature reduces power surges during system start-up.

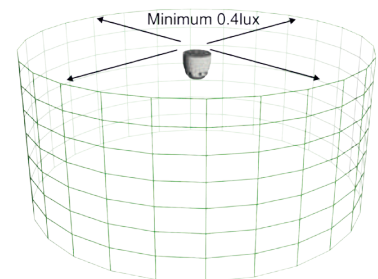
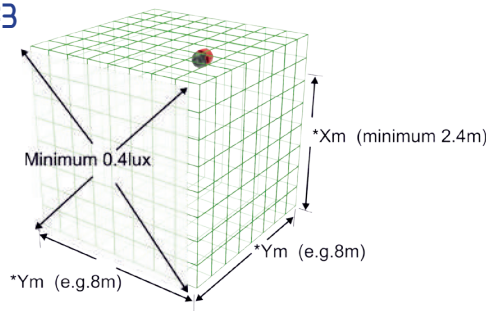
#### Quality & Reliability

- Independently approved to all required standards:
  - Manufacturing: Constructive Products Regulation (CPR).
  - Product performance:
    - Light output: EN54-23 C W & O Categories
    - Sound output: EN54-3.
  - Environmental: RoHS, WEEE.

### > The requirements of EN54-23

A cube or cylinder of light with a minimum of 0.4 Lumens/m<sup>2</sup>

\* X & Y dimensons are defined by the device manufacturer



### > Introducing the Range

| Device                 | Approvals      |        | Body Colour |       | Flash Colour |       | Installation Options |           | Lens | Environmental Compliance |
|------------------------|----------------|--------|-------------|-------|--------------|-------|----------------------|-----------|------|--------------------------|
|                        | EN54-23        | EN54-3 | Red         | White | Red          | White | Standard Device      | First Fix |      |                          |
| ENscape Sounder Beacon | W & C Category | ✓      | ✓           | ✓     | ✓            | ✓     | ✓                    | ✓         | ✓    | RoHS/WEEE                |
| ENscape Sounder Beacon | O Category     | ✓      | ✓           | ✓     | ✓            | ✗     | ✓                    | ✓         | ✓    | RoHS/WEEE                |

# Sounder Beacons – Technical Specification

## Electrical Specification

|                               |  |
|-------------------------------|--|
| Operating Voltage:            | 12 to 29VDC  |
| Operating Voltage Approved:   | EN54-3 @ 9-14 VDC & 18-29 VDC<br>EN54-23 @ 12 to 29 VDC (C & W)<br>EN54-23@ 24 to 29VDC (O Category) |
| Current Consumption, Average: | 49mA @ 29VDC (W Category) Tone 7<br>22mA @ 29VDC (O Category) Tone 7                                 |

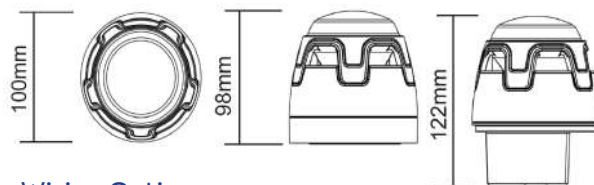
## Mechanical Specification

|                                |  |
|--------------------------------|--|
| Body Colour:                   | Red / White  |
| Sound Output, Maximum:         | 107db(A) @1m (Tone 23)   |
| Number of Tones:               | 32 includes a bell tone.<br>Full tone table available on website & installation manual |
| Volume Setting:                | High or medium   |
| Cable Termination Size:        | 0.5 - 2.5mm <sup>2</sup>   |
| Material Lens/Body:            | Flame retardant PC/ABS   |
| Gross Weight: Standard device: |  |
| (low profile)                  | 248g (W Category), 236g (O Category)   |
| (deep / IP65)                  | 255g (W Category), 242g (O Category)   |
| First Fix option:              |  |
| (low profile)                  | 258g (W Category), 246g (O Category)   |
| (deep / IP65)                  | 265g (W Category), 252g (O Category)   |

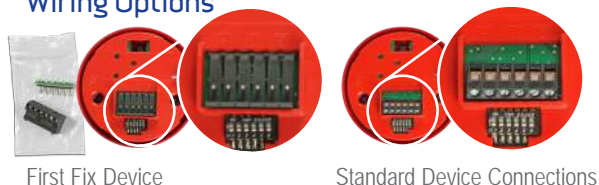
## Environmental Specification

|                        |   |
|------------------------|---|
| Operating Temperature: | -25°C to 70°C   |
| Relative Humidity:     | 93% ±3% non condensing  |
| Ingress Protection:    | IP21C - low profile base<br>IP65 – deep base                  |
| For RoHS, WEEE         | Please visit <a href="http://www.kac.co.uk">www.kac.co.uk</a> |

## Dimensions



## Wiring Options



## Product Performance

| ENscape Sounder Beacon       | Wall mount W Category  | Wall mount W Category | Ceiling mount C Category              | Ceiling mount C Category              | Wall mount O Category | Ceiling mount O Category |
|------------------------------|--|-----------------------|---------------------------------------|---------------------------------------|-----------------------|--------------------------|
| Flash Colour                 | White  | Red                   | White                                 | Red                                   | Red                   | Red                      |
| EN54-23 coverage volume code | W-2.4- 8.9   | W-2.4- 6.0            | C-3-10 / C-6-10                       | C-3-8.9 / C-6-8.2                     | O-Wall                | O-Ceiling                |
| Installation height (X)      | 2.4m max   | 2.4m max              | 3m / 6m                               | 3m / 6m                               | 2.4m                  | 3m                       |
| EN54-23 Coverage (Y)         | Cube YY = 8.9m   | Cube YY = 6.0m        | Cylinder Ø =10m                       | Cylinder Ø = 8.9m & 8.2m              |                       |                          |
| EN54-23 Coverage volume      | 190m <sup>3</sup>  | 86m <sup>3</sup>      | 236m <sup>3</sup> / 471m <sup>3</sup> | 187m <sup>3</sup> / 317m <sup>3</sup> | 0.96m <sup>3</sup>    | 1.93m <sup>3</sup>       |
| Flash rate                   | 0.5 Hz   | 0.5 Hz                | 0.5 Hz                                | 0.5 Hz                                | 0.5 Hz                | 0.5 Hz                   |
| Operating voltage range      | 12 to 29 V   | 12 to 29 V            | 12 to 29 V                            | 12 to 29 V                            | 24 to 29 V            | 24 to 29 V               |
| Synchronisation              | Synchronisation – Automatically on power on, meets EN54-3 and exceeds EN54-23 standard |                       |                                       |                                       |                       |                          |

## Out of Box Contents:

| ENscape Sounder Beacon                           | Standard Device | First Fix Option | Deep / IP 65 Option | Deep / IP 65 & First Fix Option |
|--|-----------------|------------------|---------------------|---------------------------------|
| Sounder beacon including selected base           | ✓               | ✓                | ✓                   | ✓                               |
| pack (includes terminal block & continuity link) | ✗               | ✓                | ✗                   | ✓                               |
| O Ring for IP65 Sealing                          | ✗               | ✗                | ✓                   | ✓                               |
| Installation data sheet                          | ✓               | ✓                | ✓                   | ✓                               |

## Accessories:

| Low Profile Bases                       | Deep Bases                               | IP and Earthing Kits                 | Electrical Items                 |
|---|--|--------------------------------------|----------------------------------|
| CSR – Red low profile base, pack of 5   | CWR – Red deep / IP 65, pack of 5        | PS 189 – Deep base gasket, pack of 5 | SCO77- Terminal block, pack of 5 |
| CSW – White low profile base, pack of 5 | CWW – White deep / IP 65 base, pack of 5 | PS 188 - Deep base O Ring, pack of 5 | SCO78- Installer link, pack of 5 |
|   |  | SC076 - Earth strap, pack of 5       |                                  |

## Order Information:

|   | Code | Body Colour      | Flash Colour | Base Option                  | Install Option | Lens Colour        | Example Part No. |
|---|------|------------------|--------------|------------------------------|----------------|--------------------|------------------|
| Wall mount sounder beacon - EN54-23 C&W Category  | CWSS | R=Red<br>W=White | R=Red        | S=Low Profile<br>W=IP65/Deep | 5=Standard Fix | (all lenses-Clear) | CWSS-RR-S5       |
|   |      |                  | W=White      |                              | 6=First Fix    |                    | CWSS-WW-W6       |
| Wall mount sounder beacon - EN54-23 Open Category | CWSS | R=Red<br>W=White | R=Red        | S=Low Profile<br>W=IP65/Deep | 3=Standard Fix | (all lenses-Clear) | CWSS-RR-S3       |
|   |      |                  |              |                              | 4=First Fix    |                    | CWSS-WR-W4       |



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