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Certificate of Product Approval

Certificate Number: 567aw-(cl-1)

lssue: 01

KAC Alarm Company Limited

Honeywell House Skimped Hill Lane Bracknell Berkshire RG12 1EB United Kingdom

is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Alarm Warning Devices DBS1224B4W DBS1224B4W-D CWSO-RR-YY CWSO-WW-YY CWSS-RA-YY CWSS-RA-YY CWSS-WA-YY CWSS-RB-YY CWSS-WB-YY (refer to Appendix for details)

Standards

EN 54-3:2001 + A1:2002 + A2:2006

PКЕ

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| P. Walligan | P Halligan | 22 November 2021 | 22 November 2021 | |
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| 1. Type A with CSR shallow back box, Type B with C | WR deep back box |
|---|------------------|
| 2. RR indicates red body | Whiteep back box |
| | |
| 3. YY indicates mounting option. | |
| Where $S1 = shallow base (standard fix)$ | |
| Where $S2 =$ shallow base (first fix) | |
| Where $W1 = deep back box (standard fix)$ | |
| Where $W2 = deep back box (first fix)$ | |
| 4. Meets the requirements of EN54-3: 2001 for the f | ollowing tones: |
| 1) 554/440, 2Hz (100ms/400ms); | |
| 2) 800/970, 1Hz; | |
| 3) 800/970, 2Hz; | |
| 4) 2400/2900, 3Hz; | |
| 5) 2500/3100, 2Hz; | |
| · · · | ' |
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| | |
| | |

Appendix to Certificate No: 567aw-(cl-1) **KAC Alarm Company Limited**

Continuous 800Hz

Sweep 500/1200Hz 4s

Alternating 800/1000Hz 500ms

Note:

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Product

DBS1224B4W

| DBS1224B4W-D | Intermittent 800/0Hz Temporal 4 Tone Type A Conventional Ceiling Mounting Sounder (White) Note: Meets the requirements of EN 54-3 at all output levels, and voltage ranges of 10-14 VDC and 19.5-28VDC for the following tones: | 567aw/02 |
|-------------------|--|----------|
| DBS1224B4W-D | Note: 1. Meets the requirements of EN 54-3 at all output levels, and voltage ranges | 567aw/02 |
| | 1. Meets the requirements of EN 54-3 at all output levels, and voltage ranges | |
| | | |
| | of 10-14 VDC and 19.5-28VDC for the following tones: | |
| | | |
| | Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence | |
| | – 800Hz continuous | |
| | – 500Hz-1200Hz slow whoop | |
| | Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence | |
| CWSO-RR-YY | Conventional Sounder | 567aw/03 |
| | Notes: | |
| | 1. Type A with CSR shallow back box, Type B with CWR deep back box | |
| | 2. RR indicates red body | |
| | 3. YY indicates mounting option. | |
| | Where $S1 =$ shallow base (standard fix) | |
| | Where $S2 =$ shallow base (first fix) | |
| | Where $W1 = deep back box (standard fix)$ | |
| | Where $W2 = deep back box (first fix)$ | |
| | 4. Meets the requirements of EN54-3: 2001 for the following tones: | |
| | 1) 554/440, 2Hz (100ms/400ms); | |
| | 2) 800/970, 1Hz; | |
| | | |
| | 3) 800/970, 2Hz; | |
| | 4) 2400/2900, 3Hz; | |
| | | |
| | 4) 2400/2900, 3Hz; | |
| | 4) 2400/2900, 3Hz; | |
| | 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; | |
| | 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; maintained and held in force through regular surveillance activities and subject to t | he |
| | 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; | he |
| corresponding ISC | 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; maintained and held in force through regular surveillance activities and subject to t | he |
| | 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; maintained and held in force through regular surveillance activities and subject to t 9 9001 Certificate being maintained. | |
| corresponding ISC | 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; maintained and held in force through regular surveillance activities and subject to t 0 9001 Certificate being maintained. P Halligan 22 November 2021 22 November 202 | |

Description

1. Meets the requirements of EN54-3 at all output levels and at voltage ranges

Conventional Type A Wall Mounted Sounder (White)

10-14VDC and 21-27VDC for the following tones:



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| Certified Product | Description | |
|----------------------|--|----------|
| | 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz; (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz; | |
| CWSO-WW-YY | Conventional Sounder Notes: 1. Type A with CSW shallow back box, Type B with CWW deep back box | 567aw/04 |
| | 2. WW indicates white body 3. YY indicates mounting option. | |

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| Certified Product | Description | LPCB Ref.No. |
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| | Where S1 = shallow base (standard fix) Where S2 = shallow base (first fix) Where W1 = deep back box (standard fix) Where W2 = deep back box (first fix) 4. Meets the requirements of EN54-3: 2001 for the following tones: 554/440, 2Hz (100ms/400ms); 800/970, 1Hz; 800/970, 2Hz; 2400/2900, 3Hz; 2500/3100, 2Hz; 988/645, 2Hz; 60Hz; 970Hz; 970Hz; 970Hz; 970Hz; 1200Hz; 10 2850Hz; 11 240Hz, 0.625s on, 0.625 sec off; 13 500-1200Hz, 0.25 sec off, 3.75 sec on; 14 660, 3.33Hz, 150ms on, 150ms off; 970, 0.8Hz 0.25s on, 1s off; 16 970, 0.5Hz 1s on, 1s off; 17 2850, 1Hz; 18 970, 1Hz 500ms on, 500ms off; 19 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20 800Hz; 21 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23 2400 - 2850, 7Hz; 24 500 - 1200Hz; (0.5s off, 3.5s on); 25 800 - 970, 50Hz; 27 800 - 970, 7Hz; 27 800 - 970, 1Hz; | |

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| Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box 2. The beacon function is not included in the scope of the approval 3. RA indicates red body / amber lens + red LED 4. YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; | Certified Product | Description | |
|--|----------------------|---|----------|
| Notes:1. Type A with CSR shallow back box, Type B with CWR deep back box2. The beacon function is not included in the scope of the approval3. RA indicates red body / amber lens + red LED4. YY indicates mounting option.Where S7 = shallow base (standard fix)Where S8 = shallow base (first fix)Where W7 = deep back box (standard fix)Where W8 = deep back box (first fix)5. Meets the requirements of EN54-3: 2001 for the following tones:1) 554/440, 2Hz (100ms/400ms);2) 800/970, 1Hz;3) 800/970, 2Hz;4) 2400/2900, 3Hz;5) 2500/3100, 2Hz;6) 988/645, 2Hz; | | 29) 500 – 1000, 7Hz; 30) 500 – 1200 – 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 – 1000, 2Hz; 32) 2400 – 2850, 1Hz; | |
| 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; | CWSS-RA-YY | Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box 2. The beacon function is not included in the scope of the approval 3. RA indicates red body / amber lens + red LED 4. YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 1) 200Hz; 1) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off; 13) 500-1200Hz, 0.25 sec off; 15) 970, 0.8Hz 0.25s on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; | 567aw/05 |

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| Certified Product | Description | LPCB Ref.No. |
|----------------------|---|-----------------|
| | 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz; | |
| CWSS-WA-YY | Conventional Sounder Beacon Notes: Type A with CSW shallow back box, Type B with CWW deep back box The beacon function is not included in the scope of the approval WA indicates white body / amber lens + red LED YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 554/440, 2Hz (100ms/400ms); 800/970, 1Hz; 800/970, 2Hz; 2500/3100, 2Hz; | 567aw/06 |

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| | 27) 800 – 970, 1Hz; 28) 2400 – 2850, 50Hz; 29) 500 – 1000, 7Hz; | | | |
|---|---|----------|--|--|
| | 30) 500 – 1200 – 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 – 1000, 2Hz; 32) 2400 – 2850, 1Hz; | | | |
| CWSS-RB-YY | Conventional Sounder Beacon Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box 2. The beacon function is not included in the scope of the approval 3. RB indicates red body / red lens + red LED | 567aw/07 | | |
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Description

11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

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6) 988/645, 2Hz;
7) 660Hz;
8) 970Hz;
9) 1200Hz;
10) 2850Hz;

17) 2850, 1Hz;

23) 2400 - 2850, 7Hz;

25) 800 – 970, 50Hz; 26) 800 – 970, 7Hz;

20) 800Hz;

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12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off;

18) 970, 1Hz 500ms on, 500ms off;

24) 500 - 1200Hz, (0.5s off, 3.5s on);

19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 – 500Hz, 0.99Hz 1s on, 0.01s off; Issue: 01

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11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz

Description

30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

1. Type A with CSW shallow back box, Type B with CWW deep back box 2. The beacon function is not included in the scope of the approval

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Product

CWSS-WB-YY

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27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz;

31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;

3. WB indicates white body / red lens + red LED

Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix)

1) 554/440, 2Hz (100ms/400ms);

12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off;

15) 970, 0.8Hz 0.25s on, 1s off;

Where W7 = deep back box (standard fix)Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3: 2001 for the following tones:

Conventional Sounder Beacon

4. YY indicates mounting option.

2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;

Notes:





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| | 16) 970, 0.5Hz 1s on, 1s off; | |
| | 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; | |
| | 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; | |
| | 20) 800Hz; | |
| | 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; | |
| | 22) 1200 – 500Hz, 0.99Hz 1s on, 0.01s off; | |
| | 23) 2400 – 2850, 7Hz; | |
| | 24) 500 – 1200Hz, (0.5s off, 3.5s on); | |
| | 25) 800 – 970, 50Hz; | |
| | 26) 800 – 970, 7Hz; 27) 800 – 970, 1Hz; | |
| | 27) 800 – 970, 1HZ, 28) 2400 – 2850, 50Hz; | |
| | 29) 500 – 1000. 7Hz: | |
| | 30) 500 – 1200 – 500, 0.166Hz rise 1s, stable 4s, fall 1s; | |
| | 31) 800 – 1000, 2Hz; | |
| | 32) 2400 – 2850, 1Hz; | |

Ancillaries

- CSW 19mm shallow back box – white IP21C
- CSR 19mm shallow back box - red IP21C
- CWW 45mm deep back box white IP33C
- CWR 45mm deep back box red IP33C

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