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Certificate of Product Approval

Certificate Number: 567ay-(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 CWSS-WW-YY

CWSS-RR-YY CWSS-WR-YY CWSS-RW-YY CWSS-WR-ZZ CWSS-RR-ZZ (refer to Appendix for details)

Standards

EN 54-3:2001 + A1:2002 + A2:2006 EN 54-23:2010

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

Certified Product	Description	LPCB Ref.No.
	Conventional Sounder Beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-8.9, - Category C: C-3-10, C-6-10 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WW indicates white body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (first fix) Where W6 = deep back box (first fix) S. 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; 9) 1200Hz; 10) 2850Hz;	

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Certified Product	Description	LPCB Ref.No.
	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;	
CWSS-RR-YY	Conventional Sounder Beacon	567ay/02
	Notes:	
	1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):	

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LPCB Certified Description Product Ref.No. - Category W: W-2.4-6.8 - Category C: C-3-8.9, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RR indicates red body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix)Where W6 = 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; 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;

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Certified Product	Description	LPCB Ref.No.
	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;	
CWSS-WR-YY	Conventional Sounder Beacon	567ay/03
	Notes:	
	1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):	
	- Category W: W-2.4-6	
	- Category C: C-3-8.9, C-6-8.2	
	- Flash rate 0.5Hz	

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

Certified Product	Description	LPCB Ref.No.
	- Synchronization	
	2. Type A with CSW shallow back box, Type B with CWW deep back box	
	3. WR indicates white body / red LED	
	4. YY indicates mounting option.	
	Where S5 = shallow back box (standard fix)	
	Where S6 = shallow back box (first fix)	
	Where $W5 = deep back box (standard fix)$	
	Where $W6 = deep back box (first fix)$	
	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;	
	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;	

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LPCB Certified Description Product 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; Conventional Sounder Beacon CWSS-RW-YY 567ay/04 Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-8.9 - Category C: C-3-10, C-6-10 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RW indicates red body / white LED

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LPCB Certified Description Product Ref.No. 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix)Where W6 = 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; 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;

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Certified LPCB Description Ref.No. Product 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-WR-ZZ **Conventional Sounder Beacon** 567ay/05 Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: Open class only (Refer to installation manual) - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WR indicates white body / red LED 4. ZZ indicates mounting option. Where S3 = shallow back box (standard fix) Where S4 = shallow back box (first fix)

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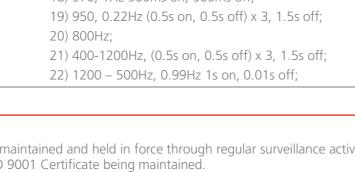
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1) 554/440, 2Hz (100ms/400ms);
2) 800/970, 1Hz;
3) 800/970, 2Hz;
4) 2400/2900, 3Hz;
5) 2500/3100, 2Hz;
6) 988/645, 2Hz;
7) 660Hz;
8) 970Hz;
9) 1200Hz;
10) 2850Hz;
11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
12) 420Hz, 0.625s 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;

Description

Where W3 = deep back box (standard fix)Where W4 = deep back box (first fix)

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

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	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-RR-ZZ	Conventional Sounder Beacon	567ay/06
	Notes:	
	1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):	
	- Category O: Open class only (Refer to installation manual)	
	- Flash rate 0.5Hz	
	- Synchronization	
	2. Type A with CSR shallow back box, Type B with CWR deep back box	
	3. RR indicates red body / red LED	
	4. ZZ indicates mounting option.	
	Where $S3 =$ shallow back box (standard fix)	
	Where S4 = shallow back box (first fix)	
	Where W3 = deep back box (standard fix)	
	Where $W4 = deep back box (first fix)$	
	5. Meets the requirements of EN54-3: 2001 for the following tones:	

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Certified Product	Description	LPCE Ref.N
	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;	
	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;	

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Certified Product	Description	LPCB Ref.No.
	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;	

Ancillaries

- Bcc Deep back box
- Wcc Waterproof back box IP33C
- 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

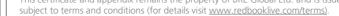
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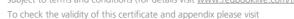
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