

Certificate of Product Approval

Certificate Number: 176f

Issue: 07

Computationics (trading as CTEC) Ltd

Challenge Way
Martland Park
Wigan
Lancashire
WN5 0LD
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

BF433A/CX/SR, BF433A/CX/DR, BF456A/CX/W
CA451A/SW, CA451A/SR, CA432A/W
CA456A/W, CA433A/SR, CA433A/DR
CA433A/DR/65, HP451A/SW, HP456A/W
HP433A/DR/65

(refer to Appendix for details)

Standards

EN 54-3:2001 + A1:2002 + A2:2006
EN 54-17:2005
EN 54-23:2010

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Signed for BRE Global Ltd

P Halligan

Verifier

8 June 2020

Date of Issue

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Appendix to Certificate No: 176f Compuionics (trading as CTEC) Ltd

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| Certified Product | Description | LPCB Ref.No. |
|-------------------|---|--------------|
| BF433A/CX/SR | Hi-Output Addressable Type A (indoor) Wall Sounder VAD with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC | 176f/01 |
| BF433A/CX/DR | Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC | 176f/02 |
| BF456A/CX/W | Addressable Type A (indoor) Ceiling Sounder VAD Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: | 176f/03 |

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| | <ul style="list-style-type: none"> - Category C-3-8 - Flash rate 0.5Hz - Synchronisation - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: <ul style="list-style-type: none"> - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC 3. Can be used as either: <ul style="list-style-type: none"> - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked sounder/VAD base combination with detectors from the Apollo Discovery range | |
| CA433A/SR | <p>Addressable CAST Protocol Type A High Output Wall Sounder VAD with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following tones: <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED | 176f/04 |

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|-------------------|---|--------------|
| CA433A/DR | <p>Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R)</p> <p>Notes:</p> <ol style="list-style-type: none"> Meets the requirements of EN 54-3 at the following tones: <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED | 176f/05 |
| CA433A/DR/65 | <p>Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Red, IP55 (BFIPPLATE/R_and IP55 Deep Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> Meets the requirements of EN 54-3 at the following tones: <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating W-2.75-9 or W-4-4 | 176f/06 |

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| | <ul style="list-style-type: none"> - Synchronization - Flash rate 0.5Hz - Red LED | |
| HP433A/DR/65 | <p>HP Addressable Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, IP55</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following tones: <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED | 176f/06 |
| CA451A/SW | <p>Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: | 176f/07 |

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| | <ul style="list-style-type: none"> - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC | |
| HP451A/SW | <p>HP Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: <ul style="list-style-type: none"> - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC | 176f/07 |
| CA451A/SR | <p>Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED | 176f/07 |

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| | <ul style="list-style-type: none"> - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: <ul style="list-style-type: none"> - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC | |
| CA432A/W | <p>Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3:2001 for the following tones: <ul style="list-style-type: none"> - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating O-R-3-2.5-18 - Synchronization - Flash rate 0.5Hz - White LED | 176f/08 |
| CA456A/W | <p>Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3:2001 for the following tones: <ul style="list-style-type: none"> - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s | 176f/09 |

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| | <ul style="list-style-type: none"> - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. <p>2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED | |
| HP456AW | <p>HP Ceiling Class Type A Base Sounder VAD with Short Circuit Isolator, White, IP21C</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3:2001 for the following tones: <ul style="list-style-type: none"> - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED | 176f/09 |

Bases

| | |
|--------------|---|
| Deep Base | IP33C |
| Shallow Base | IP21C |
| Deep Base | IP55 |
| BFIPPLATE/R | IP Protection Plate for Compact / Hi OP / Sounder VAD - Red |
| BFIPPLATE/W | IP Protection Plate for Compact / Hi OP / Sounder VAD – White |
| BF431QCP | Quick Connect Plate |

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Alternative Model No./Label

| LPCB Ref No. | Model No. | Alternative Model No./Label | Cross-listed company | Cross-Listed Co Cert./ Ref No. |
|--------------|--------------|-----------------------------|----------------------|--------------------------------|
| 176f/02 | BF433A/CX/DR | CON433A/CX/DR | Context Plus Limited | 176f-(cl-1) |

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