

Certificate of Product Approval

Certificate Number: 176f

Issue: 09

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 54-3:2014 + A1:2019
EN 54-17:2005
EN 54-23:2010

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P Halligan

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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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Certified Product	Description	LPCB Ref.No.
	<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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Certified Product	Description	LPCB Ref.No.
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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Certified Product	Description	LPCB Ref.No.
	<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"> 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/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"> 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 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"> 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 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"> 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 	
CA432AW	<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
CA456AW	<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-2)
176f/06	CA433A/DR/65	CA433A/DR/65/CON	Context Plus Limited	176f-(cl-2)

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