

## Certificate of Product Approval

Certificate Number: 176f

Issue: 04

### 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  
(refer to Appendix for details)

#### Standards

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

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for BRE Global Ltd

P Halligan

Verifier

05 June 2018

Date of Issue

16 October 2015

Date of First 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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Certified Product	Description	LPCB Ref.No.
	<ul style="list-style-type: none"> <li>- Category C-3-8</li> <li>- Flash rate 0.5Hz</li> <li>- Synchronisation</li> <li>- Operating voltage range 21-28 VDC</li> </ul> <p>2. Meets the requirements of EN 54-3 for the following:</p> <ul style="list-style-type: none"> <li>- Evacuate, 550Hz for 0.5s, 825Hz for 0.5s</li> <li>- Alternating, 925Hz for 0.25s, 626Hz for 0.25s</li> <li>- Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off</li> <li>- Operating voltage range 17-28 VDC</li> </ul> <p>3. Can be used as either:</p> <ul style="list-style-type: none"> <li>- a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or</li> <li>- a stacked sounder/VAD base combination with detectors from the Apollo Discovery range</li> </ul>	
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> <p>1. Meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none"> <li>- Category C-3-8, W-3-3.125</li> <li>- Flash rate 0.5Hz</li> <li>- Synchronisation</li> <li>- White LED</li> <li>- Operating voltage range 27-40 VDC</li> </ul> <p>2. Meets the requirements of EN 54-3 for the following:</p> <ul style="list-style-type: none"> <li>- Evacuate, 535Hz for 0.5s, 800Hz for 0.5s</li> <li>- Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s</li> <li>- Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off</li> <li>- German DIN Tone, 1200Hz to 500Hz for 1s</li> <li>- French Fire Tone, 554Hz for 100ms/440Hz for 400ms</li> <li>- Operating voltage range 24-40 VDC</li> </ul>	176f/07

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Certified Product	Description	LPCB Ref.No.
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"> <li>Meets the requirements of EN 54-23 for the following:                             <ul style="list-style-type: none"> <li>- Category C-3-8, W-3-3.125</li> <li>- Flash rate 0.5Hz</li> <li>- Synchronisation</li> <li>- White LED</li> <li>- Operating voltage range 27-40 VDC</li> </ul> </li> <li>Meets the requirements of EN 54-3 for the following:                             <ul style="list-style-type: none"> <li>- Evacuate, 535Hz for 0.5s, 800Hz for 0.5s</li> <li>- Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s</li> <li>- Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off</li> <li>- German DIN Tone, 1200Hz to 500Hz for 1s</li> <li>- French Fire Tone, 554Hz for 100ms/440Hz for 400ms</li> <li>- Operating voltage range 24-40 VDC</li> </ul> </li> </ol>	176f/07

#### Bases

Deep Base	IP33C
Shallow Base	IP21C
BFIPPLATE/R	IP Protection Plate for Compact / Hi OP / Sounder VAD - Red
BFIPPLATE/W	IP Protection Plate for Compact / Hi OP / Sounder VAD - White

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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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