Declaration of Performance – DOP0000056UK

According to the Construction Products (Amendment etc.) (EU Exit) Regulations 2020

1. Unique Product identification code:

CA431A/W, CA432A/W, CA456A/W, CA459A/W, CA460A/W

2. Type number allowing identification of the construction product as required pursuant to Article 11(4):

CAST 92dB(A) Base Sounder with short circuit isolator, white, IP21C (CA431A/W)
CAST O-R-3-2.5-18 Base Corridor VAD c/w 92dB(A) sounder and short circuit isolator, white, IP21C (CA432A/W)
CAST C-3-8.5 Base VAD c/w 92dB(A) sounder and short circuit isolator, white, IP21C (CA456A/W)
CAST O-R-3-2.5-18 Base Corridor VAD with short circuit isolator, white, IP21C (CA459A/W)
CAST C-3-8.5 Base VAD with short circuit isolator, white, IP21C (CA460A/W)

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Models CA431A/W, CA432A/W, CA456A/W:
Sounders to BS EN 54-3: 2001 for use in Fire detection and fire alarm systems in buildings

Models CA431A/W, CA432A/W, CA456A/W, CA459A/W, CA460A/W
Short-circuit isolators to BS EN 54-17: 2005 for use in Fire detection and fire alarm systems in buildings

Models CA432A/W, CA456A/W, CA459A/W, CA460A/W:
Visual alarm devices to BS EN 54-23: 2010 for use in Fire detection and fire alarm systems in buildings

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Computionics Limited (C-TEC)
Challenge Way, Martland Park, Wigan, WN5 0LD. United Kingdom
Tel: 01942 322744. Fax: 01942 829867

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2): Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. Notified body, in the case of the declaration of performance concerning a construction product covered by a harmonized standard:

Loss Prevention Certification Board (LPCB) (UK Approved Body Number 0832)
BRE Global,
Bucknalls Lane, Garston,
Watford, WD25 9XX
United Kingdom

has performed type testing and the initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and approval of the factory production control under system 1 and issued following certificate of constancy of performance:

CA431A/W: 0832-UKCA-CPR-F0771
CA432A/W: 0832-UKCA-CPR-F0782
CA456A/W: 0832-UKCA-CPR-F0783
CA459A/W: 0832-UKCA-CPR-F0786
CA460A/W: 0832-UKCA-CPR-F0787

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: Not applicable, see item 7

9(a). Declared performance applicable to models CA431A/W, CA432A/W, CA456A/W:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the British Standard mentioned in the following table.

Technical Specification		**BS EN 54-3: 2001+ A1: 2002+ A2: 2006**
Essential Characteristics	**Performance**	**Clause**
Performance parameters under fire condition		
- Sound level	Pass	4.2
- Frequency and sound patterns	Pass	4.3
- Reproducibility	Pass	5.2
- Operational performance	Pass	5.3
- Attention drawing signal and message broadcast sequences	NPD	C.3.1[(a)]
- Synchronisation (option with requirements)	NPD	C.3.2[(b)]
- Broadcast message performance	NPD	C.5.1[(a)]
- Attention-drawing signal silence message sequence timing	NPD	C.5.2[(a)]
- Message synchronisation testing option with requirements	NPD	C.5.3[(a) (b)]
Operational reliability		
- Durability	Pass	4.4
- Construction	Pass	4.5
- Marking and data	Pass	4.6
- Durability	Pass	5.4
- General testing	NPD	C4[(a)]
Durability of operational reliability		
Temperature resistance:		
- Dry heat (operational)	Pass	5.5
- Dry heat (endurance)	Pass	5.6
- Cold (operational)	Pass	5.7
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
Humidity resistance:		
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
- Damp heat, cyclic (endurance)	Pass	5.10
Corrosion resistance:		
- Sulfur dioxide (SO_2) corrosion (endurance)	Pass	5.11
Shock and vibration resistance:		
- Shock (operational)	Pass	5.12
- Impact (operational)	Pass	5.13
- Vibration, sinusoidal (operational)	Pass	5.14
- Vibration, sinusoidal (endurance)	Pass	5.15
Electrical stability:		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.16
Resistance to ingress:		
- Enclosure protection	Pass	5.17

(a) C.3, C.4, C.5.1, C.5.2 and C.5.3 apply only to voice sounders.
(b) C.3.2 and C.5.3 apply only to voice sounders with the message synchronisation option.

Meets the requirements of BS EN 54-3 for the following (operating voltage range 24-40V d.c):
1. Tone 1 - Primary
- Evacuate, 610Hz for 0.5s, 810Hz for 0.5s
- Fast Warble, 810Hz for 0.25s, 610Hz for 0.25s
- Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off
- German DIN Tone, 1200Hz-500Hz for 1s
- French Fire Tone, 554Hz for 100ms/440Hz for 440ms
2. Can be used as either:
- A stand alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or
- A stacked VAD base combination with detectors from C-TEC's CAST protocol range

9(b). Declared performance applicable to models CA431A/W, CA432A/W, CA456A/W, CA459A/W, CA460A/W:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the British Standard mentioned in the following table.

Technical Specification		**BS EN 54-17: 2005**
Essential Characteristics	**Performance**	**Clause**
Performance under fire conditions		
- Reproducibility (1)	Pass	5.2
Operational reliability		
- General requirements	Pass	4
Durability of operational reliability (temperature resistance)		
- Dry heat (operational)	Pass	5.4
- Cold (operational)	Pass	5.5
Durability of operational reliability (vibration resistance)		
- Shock (operational)	Pass	5.9
- Impact (operational)	Pass	5.10
- Vibration, sinusoidal (operational)	Pass	5.11
- Vibration, sinusoidal (endurance)	Pass	5.12
Durability of operational reliability (humidity resistance)		
- Damp heat, cyclic (operational)	Pass	5.6
- Damp heat, steady state (operational)	Pass	5.7
Durability of operational reliability (corrosion resistance)		
- Sulphur dioxide (SO_2) corrosion (endurance)	Pass	5.8
Durability of operational reliability (electrical stability)		
- Variation in supply voltage	Pass	5.3
- Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	5.13
(1) This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices.		

9(c). Declared performance applicable to models CA432A/W, CA456A/W, CA459A/W, CA460A/W:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the British Standard mentioned in the following table.

Technical Specification		**BS EN 54-23: 2010**
Essential Characteristics	**Performance**	**Clause**
Operational reliability		
- Duration of operation	Pass	4.2.1
- Provision for external conductors	Pass	4.2.2
- Flammability of materials	Pass	4.2.3
- Enclosure protection	Pass	4.2.4
- Access	Pass	4.2.5
- Manufacturer's adjustments	Pass	4.2.6
- On-site adjustment of behaviour	Pass	4.2.7
- Requirements for software controlled devices	Pass	4.2.8
Performance parameters under fire condition		
- Coverage volume	Pass	4.3.1
- Variation of light output	Pass	4.3.2
- Minimum and maximum light intensity	Pass	4.3.3
- Light colour	White	4.3.4
- Light temporal pattern and frequency of flashing	Pass/0.5Hz	4.3.5
- Marking and data	Pass	4.3.6
- Synchronisation (option with requirements)	Pass	4.3.7
Durability		
Temperature resistance:		
- Dry heat (operational)	Pass	4.4.1.1
- Dry heat (endurance)	Pass	4.4.1.2
- Cold (operational)	Pass	4.4.1.3
Humidity resistance:		
- Damp heat, cyclic (operational)	Pass	4.4.2.1
- Damp heat, steady state (endurance)	Pass	4.4.2.2
- Damp heat, cyclic (endurance)	Pass	4.4.2.3
Shock and vibration resistance:		
- Shock (operational)	Pass	4.4.3.1
- Impact (operational)	Pass	4.4.3.2
- Vibration (operational)	Pass	4.4.3.3
- Vibration (endurance)	Pass	4.4.3.4
Corrosion resistance:		
- SO2 corrosion (endurance)	Pass	4.4.4
Electrical stability:		
- EMC, immunity (operational)	Pass	4.4.5
1. Meets the requirements of BS EN 54-23 for the following: - Category C-3-8 for CA456A/W and CA460A/W, Category O-R-3-2.5-18 for CA432A/W and CA459A/W. - Flash rate 0.5Hz - Synchronisation - Operating voltage range 24-40V d.c 2. Can be used as either: - A stand alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - A stacked VAD base combination with detectors from C-TEC's CAST protocol range		

10. Empowered Signatory of Company

Name: Daniel Foster

Position: Head of Science

Signature: 

Date: 14th July 2022