Certificate No.: 2531-CPR-CSP11168

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

45681-707 XP95 Sounder Visual Alarm Device Base (White) DIN with Isolator

The product fulfils the essential characteristic:

See Annex 1

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

Apollo Fire Detectors Ltd.,
36 Brookside Road,
GB-P09 1JR Havant, Hampshire

and produced in the manufacturing plant:

Apollo Fire Detectors Ltd.,
36 Brookside Road,
GB-P09 1JR Havant, Hampshire

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-17:2005	:	**Fire detection and fire alarm systems - Part 17: Short-circuit isolators**
EN 54-23:2010	:	**Fire detection and fire alarm systems - Part 23: Fire alarm devices - Visual alarm devices**
EN 54-3:2001/A1:2002/A2:2006	:	**Fire detection and fire alarm systems - Part 3: Fire alarm devices - Sounders**

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: **2021-10-05.**

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued 2019-11-28)

This certificate was first issued 2019-11-28.

Allan Laursen
Responsible for evaluation

Merete Poulsen
Responsible for certification decision

DANAK
Prod. Reg. Nr. 7023

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www.dbicertification.dk

Annex 1

EXTENT

Type:
45681-707 XP95 Sounder Visual Alarm Device Base (White) DIN with Isolator

Notes:
1. The VAD is rated as open class: (Refer to installation guide).
2. The VAD operating voltage range 17-28V DC (24V nominal).
3. The VAD Light mode (light pattern details): 0.5Hz mode only.
4. The VAD includes a short circuit isolator function.
5. The VAD is a Type A device and includes synchronisation.
6. Meets the requirements of EN 54-3: 2001 at the following tone settings:
   Tone 4 DIN Tone (sweep) – 1200Hz – 500Hz for 1s
   Tone 2 Continuous – 850Hz
7. Approved for sounder volumes 2-7 only

Accessories:
45681-292 White Cap (Lockable)
45681-23 Red Cap (Lockable)

Performance

Essential characteristics	Clauses in EN 54-3:2001	Performance
Performance under fire conditions	4.2, 4.3, 5.2, 5.3	Pass
Operational reliability	4.4, 4.5, 4.6, 5.4, C4	Pass
Durability of operational reliability and response delay; temperature resistance	5.5, 5.6, 5.7, 5.8, 5.9	Pass
Durability of operational reliability; humidity resistance	5.8, 5.9, 5.10	Pass
Durability of operational reliability; corrosion resistance	5.11	Pass
Durability of operational reliability; vibration resistance	5.12 to 5.15	Pass
Durability of operational reliability; electrical stability	5.16	Pass
Durability of operational reliability; resistance to ingress	5.17	Pass
5.6 and 5.10 applies only to outdoor sounders or outdoor voice sounders. 5.16 applies only to sounders or voice sounders with active electronic components		

Essential characteristics	Clauses in EN 54-17:2005	Performance
Performance under fire conditions	5.2 1)	Pass
Operational reliability	4	Pass
Durability of operational reliability; temperature resistance	5.4, 5.5	Pass
Durability of operational reliability; vibration resistance	5.9 to 5.12	Pass
Durability of operational reliability; humidity resistance	5.6, 5.7	Pass
Durability of operational reliability; corrosion resistance	5.8	Pass
Durability of operational reliability; electrical stability	5.3, 5.13	Pass
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		

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Essential characteristics	Clauses in EN 54-23:2010	Level(s) or class(es)	Notes
Operational reliability:			
Duration of operation	4.2.1		Pass
Provision for external conductors	4.2.2		Pass
Flammability of materials	4.2.3		Pass
Enclosure protection	4.2.4		Pass
Access	4.2.5		Pass
Manufacturer's adjustments	4.2.6		Pass
On-site adjustment of behaviour	4.2.7		Pass
Requirements for software controlled devices	4.2.8		Pass
Performance parameters under fire condition:			
Coverage volume	4.3.1		Pass
Variation of light output	4.3.2		Pass
Minimum and maximum light intensity	4.3.3		Pass
Light colour	4.3.4		Red/White
Light temporal pattern and frequency of flashing	4.3.5		Pass/Hz
Marking and data	4.3.6		Pass
Synchronization (option with requirements)	4.3.7		Pass
Durability:		None	
Temperature resistance:			
Dry heat (operational)	4.4.1.1		Pass
Dry heat (endurance)	4.4.1.2		Pass
Cold (operational)	4.4.1.3		Pass
Humidity resistance:			
Damp heat, cyclic (operational)	4.4.2.1		Pass
Damp heat, steady state (endurance)	4.4.2.2		Pass
Damp heat, cyclic (endurance)	4.4.2.3		Pass
Shock and vibration resistance:			
Shock (operational)	4.4.3.1		Pass
Impact (operational)	4.4.3.2		Pass
Vibration (operational)	4.4.3.3		Pass
Vibration (endurance)	4.4.3.4		Pass
Corrosion resistance:			
SO2 corrosion (endurance)	4.4.4		Pass
Electrical stability:			
EMC, immunity (operational)	4.4.5		Pass

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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
BRE	TE 286206 Revision 1	09 January 2014
BRE	TE 281812 Revision 2	24 September 2015
BRE	TE 286206	10 December 2013
BRE	TE 281812 Revision 1	09 January 2014
BRE	TE-P118556-1000 Revision 1	06 May 2021
BRE	P118556/1.1	21 May 2020

TECHNICAL BASIS

File Number	Title
45681-707	Build Standard