# Certificate No.: 2531-CPR-CSP11008



## **C**ERTIFICATE 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

#### SA7100-100APO Adressable Beam Detector with Automatic Alignment

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 Havant, Hampshire, P09 1JR United Kingdom

and produced in the manufacturing plant:

	FFE Ltd. 9 Hunting Gate Hitchin, Hertfordshire, SG4 0TJ United Kingdom	
This attests that all provision	ns concerning the performance described in Annex ZA of the standard(s)	
EN 54-12:2015	: Fire detection and fire alarm systems - Part 12: Smoke detectors using an optical beam	- Line detectors
EN 54-17:2005	: Fire detection and fire alarm systems - Part 17: Short-circuit isol	ators

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

## CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.

This certificate was first issued on 2022-05-06 and will remain valid as long as neither the harmonised 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: 2022-10-26.

(This certificate supersedes the previous version of this certificate issued 2022-05-06)

Merete Poulsen Responsible for evaluation

Steen Nilsson Responsible for certification decision



The certificate shall be reproduced in extenso – extracts only with written permission from DBI Certification A/S.

**DBI Certification A/S** Jernholmen 12, 2650 Hvidovre Tlf.: 36 34 90 90

E-mail: info@dbicertification.dk www.dbicertification.dk

Version 2022-02-08 Page **1** of **4** 

# Certificate No.: 2531-CPR-CSP11008



Annex 1

### EXTENT

### Type:

SA7100-100APO Adressable Beam Detector with Automatic Alignment

## Ancillaries:

0020-017 Mounting Bracket 29650-070 IR Beam Detector 5000-067 System Controller

### Second detector head:

29650-069 Apollo Auto-Aligning Beam Detector and System Controller *The model 29650-069 is only approved to EN 54-12:2015.* 

#### Notes:

1. Approved sensitivity settings from 25% to 35% only

2. 29650-069 approved for use with 1-2 heads

3. 50m approved range 8-50m – using 1 x Prismatic Retroreflector

4. 100m approved range 50-100m – using 4 x Prismatic Retroreflector

5. Delay to fire setting between 2 and 20 seconds only

#### Performance

Essential characteristics	Clauses in EN 54-12:2015	Regulatory classes	Performance
Operational reliability:			
Individual alarm indication	4.2.1		Pass
Connection of ancillary devices	4.2.2		Pass
Manufacturer's adjustments	4.2.3		Pass
Onsite adjustments of response value	4.2.4		Pass
Protection of ingress of foreign bodies	4.2.5		Pass
Monitoring of detachable detectors and connections	4.2.6		Pass
Requirements for software controlled detectors	4.2.7		Pass
Nominal activation conditions/Sensitivity:			
Reproducibility	4.3.1		Pass
Repeatability	4.3.2		Pass
Tolerance to beam misalignment	4.3.3		Pass
Rapid change in attenuation	4.3.4		Pass
Response to slowly developing fires	4.3.5	None	Pass
Optical path length dependence	4.3.6	None	Pass
Stray light	4.3.7		Pass
Tolerance to supply voltage:			
Variation in supply parameters	4.4		Pass
Performance parameters under fire conditions:			
Fire sensitivity	4.5		Pass
Durability of nominal activation conditions/Sensitivity:			
temperature resistance			
Dry heat (operational)	4.6.1.1		Pass
Cold (operational)	4.6.1.2		Pass
Humidity resistance			
Damp heat, steady-state (operational)	4.6.2.1		Pass
Damp heat, steady-state (endurance)	4.6.2.2		Pass
Vibration resistance			

The certificate shall be reproduced in extenso – extracts only with written permission from DBI Certification A/S.



**DBI Certification A/S** Jernholmen 12, 2650 Hvidovre

Jernholmen 12, 2650 Hvido Tlf.: 36 34 90 90 E-mail: info@dbicertification.dk www.dbicertification.dk

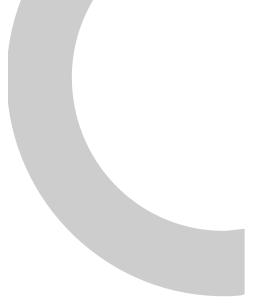
Version 2022-02-08 Page **2** of **4** 

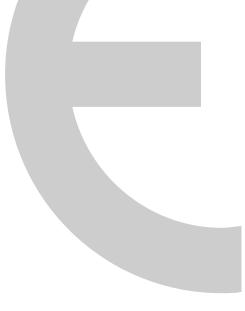
# Certificate No.: 2531-CPR-CSP11008



	Vibration (endurance)	4.6.3.1	Pass	
	Impact (operational)	4.6.3.2	Pass	
Electrical stability EMC immunity (operational)		4.6.4	Pass	
	Corrosion resistance			
	Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	4.6.5	Pass	

Essential characteristics	Clauses in EN 54-17:2005	Performance
Performance under fire conditions	5.2	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







The certificate shall be reproduced in extenso – extracts only with written permission from DBI Certification A/S.

E-mail: info@dbicertification.dk www.dbicertification.dk

Version 2022-02-08 Page **3** of **4** 



Annex 2

#### TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
BRE	TE 231638	2007-09-19
BRE	TE 231638-SW-A	2007-06-05
BRE	TE 231638-SW-B	2007-06-05
BRE	TE 244651-SW-A	2009-02-19
BRE	ТЕ 244651-SW-B	2009-02-19
BRE	TE 250758	2009-07-09
BRE	TE 281233 Revision 1	2014-02-03
BRE	TE 291795 Issue: 1	2016-02-04
BRE	TE 291795-SW Issue: 1	2016-01-18
BRE	TE-P109763-1001 Issue: 1	2019-04-09
BRE	TE-P109576-1001 Issue: 1	2019-04-09

## TECHNICAL BASIS

File Number	Title		Date	
F5K 50M EN SYS AA APO	Fireray 5000 50m EN Addressable System for 100APO	Apollo - SA7100-	2021-10-20	
98-5000-119-13 - F5K 8-50m EN SYS APO	Critical component list		2019-04-04	
PP2414/2013/Issue 2	Apollo Circuit Diagram			



The certificate shall be reproduced in extenso – extracts only with written permission from DBI Certification A/S.

E-mail: info@dbicertification.dk www.dbicertification.dk