

# CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)  
Notified Body Nr. 0370

No.

0370-CPR-3809

In compliance with Regulation (EU) Nr.305/2011 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:

## FIRE DETECTION AND FIRE ALARM SYSTEMS:

- HEAT DETECTORS. POINT HEAT DETECTORS
- SMOKE DETECTORS. POINT SMOKE DETECTORS THAT OPERATE USING SCATTERED LIGHT, TRANSMITTED LIGHT OR IONIZATION.

REFERENCE: **JBE-2115** - ADDRESSABLE OPTICAL AND HEAT DETECTOR

Placed on the market under the name of:

## JADE BIRD FIRE ALARM INTERNATIONAL (EUROPE), S.L.

C/ DE TARRAGONA, 157 7º  
08014 BARCELONA (SPAIN)

And produced in the manufacturing plant:

**23/32308425**

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

**EN 54-5:2017+A1:2018; EN 54-7:2018**

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 17<sup>th</sup> February 2020 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed on 2<sup>nd</sup> February 2024.

**The monitoring assessment will be done before 28<sup>th</sup> February 2025**

Bellaterra, 2<sup>nd</sup> February 2024



  
LGAI Technological Center, S.A.

Xavier Ruiz Peña  
Managing Director, Product Conformity B.U.



*This document is not valid without its technical annex; whose number coincides with that of the certificate.*

*You can check the validity of this certificate on our website: [www.appluslaboratories.com/certified\\_products](http://www.appluslaboratories.com/certified_products)*

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility

## 0370-CPR-3809

Annex according to **EN 54-5:2017+A1:2018**

### **FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 5: HEAT DETECTORS. POINT HEAT DETECTORS**

| Essential characteristics                               | Clauses in this European standard | Mandated level(s) or class(es) |
|---------------------------------------------------------|-----------------------------------|--------------------------------|
| Heat Response Categories                                | 4.1.1                             | Category A2                    |
| Position of heat sensitive element                      | 4.2.1                             | PASS                           |
| Individual alarm indication                             | 4.2.2                             | PASS                           |
| Connection of ancillary devices                         | 4.2.3                             | PASS                           |
| Monitoring of detachable point heat detectors           | 4.2.4                             | PASS                           |
| Manufacturing adjustments                               | 4.2.5                             | PASS                           |
| On site adjustment of response behaviour                | 4.2.6                             | NA                             |
| Software controlled detector                            | 4.2.7                             | PASS                           |
| Directional dependence                                  | 4.3.1                             | PASS                           |
| Static response temperature                             | 4.3.2                             | PASS                           |
| Response times from typical application temperature     | 4.3.3                             | PASS                           |
| Response times from 25 °C                               | 4.3.4                             | PASS                           |
| Response times from high ambient temperature            | 4.3.5                             | PASS                           |
| Reproducibility                                         | 4.3.6                             | PASS                           |
| Additional test for suffix S point heat detectors       | 4.4.1                             | NA                             |
| Additional test for suffix R point heat detectors       | 4.4.2                             | NA                             |
| Variation in supply parameters                          | 4.5.1                             | PASS                           |
| Cold (operational)                                      | 4.6.1.1                           | PASS                           |
| Dry heat (endurance)                                    | 4.6.1.2                           | NA                             |
| Damp heat, cyclic (operational)                         | 4.6.2.1                           | PASS                           |
| Damp heat, steady state (endurance)                     | 4.6.2.2                           | PASS                           |
| Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance) | 4.6.3                             | PASS                           |
| Shock (operational)                                     | 4.6.4.1                           | PASS                           |
| Impact (operational)                                    | 4.6.4.2                           | PASS                           |
| Vibration, sinusoidal (operational)                     | 4.6.4.3                           | PASS                           |
| Vibration, sinusoidal (endurance)                       | 4.6.4.4                           | PASS                           |
| EMC, immunity (operational)                             | 4.6.5                             | PASS                           |

PASS; NPD = No Performance Determined, NA = Not Apply

## 0370-CPR-3809

Annex according to **EN 54-7:2018**

### **FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 7. SMOKE DETECTORS. POINT SMOKE DETECTORS THAT OPERATE USING SCATTERED LIGHT, TRANSMITTED LIGHT OR IONIZATION**

| Essential characteristics                                   | Clauses in this European standard | Mandated level(s) or class(es) |
|-------------------------------------------------------------|-----------------------------------|--------------------------------|
| Individual alarm indication                                 | 4.2.1                             | PASS                           |
| Connection of ancillary devices                             | 4.2.2                             | PASS                           |
| Monitoring of detachable detectors                          | 4.2.3                             | PASS                           |
| Manufacturer's adjustments                                  | 4.2.4                             | PASS                           |
| On site adjustment of response behaviour                    | 4.2.5                             | NA                             |
| Protection against the ingress of foreign bodies            | 4.2.6                             | PASS                           |
| Response to slowly developing fires                         | 4.2.7                             | PASS                           |
| Software controlled detector                                | 4.2.8                             | PASS                           |
| Repeatability                                               | 4.3.1                             | PASS                           |
| Directional dependence                                      | 4.3.2                             | PASS                           |
| Reproducibility                                             | 4.3.3                             | PASS                           |
| Air movement                                                | 4.4.1                             | PASS                           |
| Dazzling                                                    | 4.4.2                             | PASS                           |
| Variation in supply parameters                              | 4.5                               | PASS                           |
| Fire sensitivity                                            | 4.6                               | PASS                           |
| Cold (operational)                                          | 4.7.1.1                           | PASS                           |
| Dry heat (operational)                                      | 4.7.1.2                           | PASS                           |
| Damp heat, steady state (operational)                       | 4.7.2.1                           | PASS                           |
| Damp heat, steady state (endurance)                         | 4.7.2.2                           | PASS                           |
| Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance)     | 4.7.3                             | PASS                           |
| Shock (operational)                                         | 4.7.4.1                           | PASS                           |
| Impact (operational)                                        | 4.7.4.2                           | PASS                           |
| Vibration, sinusoidal (operational)                         | 4.7.4.3                           | PASS                           |
| Vibration, sinusoidal (endurance)                           | 4.7.4.4                           | PASS                           |
| Electromagnetic compatibility (EMC), immunity (operational) | 4.7.5                             | PASS                           |

PASS; NPD = No Performance Determined, NA = Not Apply

## 0370-CPR-3809

| ACCESORIES |                                                                   |
|------------|-------------------------------------------------------------------|
| JBE-2160   | Detector Base with Two Terminals                                  |
| JBE-2165   | Detector Base with Four Terminals plus Screen Continuity Terminal |

| SENSITIVITY LEVELS |                    |                   |
|--------------------|--------------------|-------------------|
| Profile            | Sensitivity smoke  | Sensitivity heat  |
| 1                  | Muy alta           | EN 54-5 A2        |
| 2                  | EN 54-7            | EN 54-5 A2        |
| 3                  | EN 54-7            | Very low          |
| 4                  | EN 54-7            | 0 (no heat alarm) |
| 5                  | Very low           | EN 54-5 A2        |
| 6                  | 0 (no smoke alarm) | EN 54-5 A2        |