



2831-CPR-F4748

## DECLARATION OF PERFORMANCE

In accordance with 305/2011/EU  
Ref: BİLGİ-CPR-202311-01

**Product Code:** teknim TFD-4230

**Product Name:** Conventional Optical Smoke Detector

**Base:** teknim TFA-0120

**Manufacturer:** Bilgi Elektronik San. ve Tic. A.Ş.  
Dudullu Organize Sanayi Bölgesi 1.Cadde İsmet Tarman İş  
Merkezi No:1 D:32 34776 Ümraniye - İstanbul / Türkiye

**Intended Use:** Fire Detection and Fire Alarm Systems Installed in Buildings

**Systems of Assessment and Verification for Constancy of Performance:** System 1

**Harmonized Standards:** EN 54-7:2018

**Notified Body:** BRE Global Ireland – NB No: 2831

| <i>Essential Characteristics</i>                              | <i>Performance</i> | <i>EN 54-7:2018</i> |
|---|--------------------|---------------------|
| <b>Operational reliability</b>                                |                    |                     |
| — Individual alarm indication                                 | Pass               | 5.2.1               |
| — Ancillary device connection                                 | Pass               | 5.2.2               |
| — Monitoring of detectors                                     | Pass               | 5.2.3               |
| — Manufacturer's adjustments                                  | Pass               | 5.2.4               |
| — On site adjustment  | Pass               | 5.2.5               |
| — Ingress of foreign bodies                                   | Pass               | 5.2.6               |
| — Slowly developing fires                                     | Pass               | 5.2.7               |
| — Marking, labelling and packaging                            | Pass               | 8                   |
| <b>Nominal activation conditions/ Sensitivity</b>             |                    |                     |
| — Repeatability   | Pass               | 5.3.1               |
| — Directional dependence                                      | Pass               | 5.3.2               |
| — Reproducibility   | Pass               | 5.3.3               |
| <b>Response delay (response times)</b>                        |                    |                     |
| — Air movement  | Pass               | 5.4.1               |
| — Dazzling  | Pass               | 5.4.2               |
| <b>Tolerance to supply voltage</b>                            |                    |                     |
| — Variation in supply   | Pass               | 5.5                 |
| <b>Performance parameters under fire conditions:</b>          |                    |                     |
| — Fire sensitivity  | Pass               | 5.6.1               |
| <b>Durability of Nominal activation condition/sensitivity</b> |                    |                     |
| <b>Temperature resistance</b>                                 |                    |                     |
| — Cold (operational)  | Pass               | 5.7.1.1             |
| — Dry heat (operational)                                      | Pass               | 5.7.1.2             |
| <b>Humidity resistance</b>                                    |                    |                     |
| — Damp heat, steady - state (operational)                     | Pass               | 5.7.2.1             |
| — Damp heat, steady - state (endurance)                       | Pass               | 5.7.2.2             |
| <b>Corrosion resistance</b>                                   |                    |                     |
| — Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)    | Pass               | 5.7.3               |
| <b>Vibration Resistance</b>                                   |                    |                     |
| — Shock (operational)   | Pass               | 5.7.4.1             |
| — Impact (operational)  | Pass               | 5.7.4.2             |
| — Vibration, sinusoidal (operational)                         | Pass               | 5.7.4.3             |
| — Vibration, sinusoidal (endurance)                           | Pass               | 5.7.4.4             |
| <b>Electrical stability</b>                                   |                    |                     |
| — Electrostatic discharge (operational)                       | Pass               | 5.18a               |
| — Radiated electromagnetic fields (operational)               | Pass               | 5.18b               |
| — Conducted disturbances (operational)                        | Pass               | 5.18c               |
| — Fast transient bursts (operational)                         | Pass               | 5.18d               |
| — Slow high energy surge (operational)                        | Pass               | 5.18e               |

The performance of the product identified above is in conformity with the set of declared performance characteristics. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

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*İstanbul, 09.03.2023*

*Signed for and on behalf of the manufacturer by:*

*Saruhan Acar  
Vice General Manager*

A handwritten signature in black ink, appearing to be 'S. Acar', written over a horizontal line.