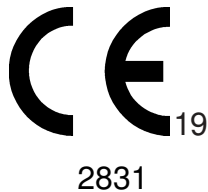




## EC & UKCA DECLARATION OF PERFORMANCE

No: F0411



This declaration was compiled following the provisions of EU Construction Products Regulation CPR No.305/2011 & UKCA SI 465/2019

**EVC-P** Conventional Optical Smoke Detector

**Part number:** F02-82200

**Compatible Bases:** UB-4, UB-6-EV, STB-4SE, STB-4SE-EV, IP55-Base + Mount  
UB-4-SD, STB-4SE-SD

**Manufacturer:** Nittan Europe Ltd, Old Woking, Surrey GU22 9LQ England.

We, Nittan Europe Limited of Hipley Street, Old Woking, Surrey GU22 9LQ England, declare that the above listed product complies with the following:

Standard EN54-7:2018, Smoke detectors - Point detectors.

EMC Directive 2014/30/EU & Electromagnetic Compatibility Regulations 2016 UK

RoHS Directive (EU) 2015/863 & Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 UK

Low Voltage Directive (LVD) 2014/35/EU & Electrical Equipment (Safety) Regulations 2016 UK

The intended use for the construction product is Fire Detection and Alarm Systems.

BRE Global Assurance Ireland Ltd, DCU Alpha, Old Finglas Road, Glasnevin, Dublin D11 KXN4, Ireland. Notified body number 2831, have conducted Type testing and Factory Production Control Inspection in accordance with System 1, as set out in the CPR, and issued an EC Certificate of Constancy of Performance 2831-CPR-F0411.

BRE Global Assurance UK LTD, Bucknalls Lane, Watford, Hertfordshire, WD25 9XX, Notified body number 0832, have issued the UKCA certification 0832-UKCA CPR-F0027 in accordance with UKCA SI 465/2019.



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Declared Performance:

| Technical Characteristics                               | Performance                | Harmonised Specification    |
|---|----------------------------|-----------------------------|
| Operating Voltage                                       | 12 Vdc to 32 Vdc           | EN54-7: 2018                |
| Quiescent Current                                       | 50 $\mu$ A @ 24 Vdc        |                             |
| Alarm Current (Including Indicator)                     | 50 mA @ 24 Vdc             |                             |
| Remote LED Indicator Current                            | 2 mA                       |                             |
| Operating Temperature                                   | -10°C to +55°C             |                             |
| Relative Humidity                                       | $\leq$ RH 95%              |                             |
| Dimensions  | $\varnothing$ 104mm x 35mm |                             |
| Mass  | 110 g                      |                             |
| <b>Operational Reliability</b>                          |                            | <b>EN54-7: 2018</b>         |
| Individual alarm indication                             | PASS                       | EN54-7: 2018 Clause 4.2.1   |
| Connection of ancillary devices                         | PASS                       | EN54-7: 2018 Clause 4.2.2   |
| Monitoring of detachable detectors                      | PASS                       | EN54-7: 2018 Clause 4.2.3   |
| Manufacturer's adjustments                              | PASS                       | EN54-7: 2018 Clause 4.2.4   |
| On site adjustment of response behaviour                | PASS                       | EN54-7: 2018 Clause 4.2.5   |
| Protection against the ingress of foreign bodies        | PASS                       | EN54-7: 2018 Clause 4.2.6   |
| Response to slowly developing fires                     | PASS                       | EN54-7: 2018 Clause 4.2.7   |
| Software controlled detector (when provided)            | PASS                       | EN54-7: 2018 Clause 4.2.8   |
| <b>Nominal activation conditions/Sensitivity</b>        |                            |                             |
| Repeatability   | PASS                       | EN54-7: 2018 Clause 4.3.1   |
| Directional dependence                                  | PASS                       | EN54-7: 2018 Clause 4.3.2   |
| Reproducibility   | 0.11 to 0.15 dB/m          | EN54-7: 2018 Clause 4.3.3   |
| <b>Response delay (response time)</b>                   |                            |                             |
| Air movement  | PASS                       | EN54-7: 2018 Clause 4.4.1   |
| Dazzling  | PASS                       | EN54-7: 2018 Clause 4.4.2   |
| <b>Tolerance to supply voltage:</b>                     |                            |                             |
| Variation in supply parameters                          | PASS                       | EN54-7: 2018 Clause 4.5     |
| <b>Performance parameters under fire conditions:</b>    |                            |                             |
| Fire sensitivity TF-2, TF-3, TF-4 & TF5                 | PASS                       | EN54-7: 2018 Clause 4.6     |
| <b>Durability – Temperature resistance:</b>             |                            |                             |
| Cold (operational)                                      | PASS                       | EN54-7: 2018 Clause 4.7.1.1 |
| Dry heat (operational)                                  | PASS                       | EN54-7: 2018 Clause 4.7.1.2 |
| <b>Durability – Humidity resistance:</b>                |                            |                             |
| Damp heat, steady-state (operational)                   | PASS                       | EN54-7: 2018 Clause 4.7.2.1 |
| Damp heat, steady-state (endurance)                     | PASS                       | EN54-7: 2018 Clause 4.7.2.2 |
| <b>Durability – Corrosion resistance:</b>               |                            |                             |
| Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance) | PASS                       | EN54-7: 2018 Clause 4.7.3   |
| <b>Durability – Vibration resistance:</b>               |                            |                             |
| Shock (operational)                                     | PASS                       | EN54-7: 2018 Clause 4.7.4.1 |
| Impact (operational)                                    | PASS                       | EN54-7: 2018 Clause 4.7.4.2 |
| Vibration, sinusoidal (operational)                     | PASS                       | EN54-7: 2018 Clause 4.7.4.3 |
| Vibration, sinusoidal (endurance)                       | PASS                       | EN54-7: 2018 Clause 4.7.4.4 |
| <b>Durability – Electrical stability:</b>               |                            |                             |
| EMC, immunity (operational)                             | PASS                       | EN54-7: 2018 Clause 4.7.5   |
|   |                            |                             |



## EC & UKCA DECLARATION OF PERFORMANCE

No: F0411

Barry Sargent  
Technical Product Manager/  
Quality Manager  
31<sup>st</sup> March 2022

