

EC & UKCA DECLARATION OF PERFORMANCE

No: F0414





2831

0832

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

EV-PH Analogue Addressable Optical Smoke and Heat Detector

Part number: F20-82400

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

EV-B-SCI, EV-SPB-SCI, EV-24VRL, SCI-5, EV-SDR Base,

EV-AV2 Base

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 EN54-5:2017 + A1:2018, Heat detectors - Point detectors.

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

Standard CEA 4021:2003, Multisensors

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-F0414.

BRE Global Assurance UK LTD, Bucknalls Lane, Watford, Hertfordshire, WD25 9XX, Notified body number 0832, have issued the UKCA certification 0832-UKCA CPR-F0028 in accordance with UKCA SI 465/2019.



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Declared Performance:

| Technical Characteristics | Performance | Harmonised Specification |
|---|------------------|-----------------------------|
| Operating Voltage | 20 Vdc to 35 Vdc | |
| Quiescent Current | 200 μΑ | |
| Alarm Current (Including Indicator) | 5 mA | 1 <u></u> |
| Remote LED Indicator Current | 2 mA | EN54-5: 2017 + A1:2018 |
| Operating Temperature | -10°C to +55°C | & ENEA 7, 0040 |
| Relative Humidity | ≤ RH 95% | EN54-7: 2018 |
| Dimensions | Ø104mm x 42.5mm | |
| Mass | 130 g | |
| Operational Reliability | 11.0 | EN54-5: 2017 + A1:2018 |
| Position of heat sensitive element | PASS | EN54-5: 2017 Clause 4.2.1 |
| Individual alarm indication | PASS | EN54-5: 2017 Clause 4.2.2 |
| Connection of ancillary devices | PASS | EN54-5: 2017 Clause 4.2.3 |
| Monitoring of detachable point heat detectors | PASS | EN54-5: 2017 Clause 4.2.4 |
| Manufacturing adjustments | PASS | EN54-5: 2017 Clause 4.2.5 |
| On site adjustment of response behaviour | PASS | EN54-5: 2017 Clause 4.2.6 |
| Software controlled detector (when provided) | PASS | EN54-5: 2017 Clause 4.2.7 |
| Nominal activation conditions/Sensitivity | | |
| Directional dependence | PASS | EN54-5: 2017 Clause 4.3.1 |
| Static response temperature | PASS | EN54-5: 2017 Clause 4.3.2 |
| Response times from typical application | DACC | FNE4 5: 2017 Clause 4 2 2 |
| temperature | PASS | EN54-5: 2017 Clause 4.3.3 |
| Response times from 25 °C | PASS | EN54-5: 2017 Clause 4.3.4 |
| Response times from high ambient temperature | PASS | EN54-5: 2017 Clause 4.3.5 |
| Reproducibility | PASS | EN54-5: 2017 Clause 4.3.6 |
| Response delay (response time): | | |
| Additional test for suffix R point heat detectors | PASS (A1R) | EN54-5: 2017 Clause 4.4.2 |
| Tolerance to supply voltage: | | |
| Variation in supply parameters | PASS | EN54-5: 2017 Clause 4.5.1 |
| Durability – Temperature resistance: | | |
| Cold (operational) | PASS | EN54-5: 2017 Clause 4.6.1.1 |
| Dry heat (endurance) | PASS | EN54-5: 2017 Clause 4.6.1.2 |
| Durability – Humidity resistance: | | |
| Damp heat, cyclic (operational) | PASS | EN54-5: 2017 Clause 4.6.2.1 |
| Damp heat, steady-state (endurance) | PASS | EN54-5: 2017 Clause 4.6.2.2 |
| Durability – Corrosion resistance: | | |
| Sulfur dioxide (SO2) corrosion (endurance) | PASS | EN54-5: 2017 Clause 4.6.3 |
| Durability – Vibration resistance: | | |
| Shock (operational) | PASS | EN54-5: 2017 Clause 4.6.4.1 |
| Impact (operational) | PASS | EN54-5: 2017 Clause 4.6.4.2 |
| Vibration, sinusoidal (operational) | PASS | EN54-5: 2017 Clause 4.6.4.3 |
| Vibration, sinusoidal (endurance) | PASS | EN54-5: 2017 Clause 4.6.4.4 |
| Durability – Electrical stability: | B | |
| EMC, immunity (operational) | PASS | EN54-5: 2017 Clause 4.6.5 |
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| Operational Reliability | | EN54-7: 2018 |
|--|-------------------|-----------------------------|
| 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 |
| Nominal activation conditions/Sensitivity | | |
| Repeatability | PASS | EN54-7: 2018 Clause 4.3.1 |
| Directional dependence | PASS | EN54-7: 2018 Clause 4.3.2 |
| Reproducibility (Low Sensitivity) | 0.18 to 0.29 dB/m | EN54-7: 2018 Clause 4.3.3 |
| Reproducibility (High Sensitivity) | 0.15 to 0.22 dB/m | = EN54-7. 2016 Clause 4.3.3 |
| Response delay (response time) | | |
| Air movement | PASS | EN54-7: 2018 Clause 4.4.1 |
| Dazzling | PASS | EN54-7: 2018 Clause 4.4.2 |
| Tolerance to supply voltage: | | |
| Variation in supply parameters | PASS | EN54-7: 2018 Clause 4.5 |
| Performance parameters under fire conditions: | | |
| Fire sensitivity TF-2, TF-3, TF-4 & TF5 | PASS | EN54-7: 2018 Clause 4.6 |
| TF-8 Decalin Fire Test | PASS | CEA 4021:1999 |
| Durability – Temperature resistance: | | |
| Cold (operational) | PASS | EN54-7: 2018 Clause 4.7.1.1 |
| Dry heat (operational) | PASS | EN54-7: 2018 Clause 4.7.1.2 |
| Durability – Humidity resistance: | | |
| 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 |
| Durability – Corrosion resistance: | | |
| Sulfur dioxide (SO2) corrosion (endurance) | PASS | EN54-7: 2018 Clause 4.7.3 |
| Durability – Vibration resistance: | | |
| 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 |
| Durability – Electrical stability: | | |
| EMC, immunity (operational) | PASS | EN54-7: 2018 Clause 4.7.5 |
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Barry Sargent Technical Product Manager/ Quality Manager 31st March 2022

