



EC& UKCA DECLARATION OF PERFORMANCE

No: 20883



0786



2575



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This declaration was compiled following the provisions of EU Construction Products Regulation CPR No.305/2011 and ATEX Directive 2014/34/EU.

EVC-PY-IS – Conventional Intrinsically Safe Optical Smoke Detector

Part number: F02N83300

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

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.

ATEX Standards EN60079-0:2018, EN60079-11:2012.

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.

VdS Schadenverhütung GmbH, Amsterdamer Str. 172-174, D-50735 Köln, Notified body number 0786, 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 Conformity 0786-CPR-20883.

An ATEX EC Type Examination Certificate ITS09ATEX26418X has been issued by Intertek Testing & Certification Ltd. Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano – Italy NB2575

Intertek UK, Cleeve Road, Leatherhead, Surrey, KT22 7SA Notified body number 0359, have issued the UKCA certification 0359-UKCA-CPR-00127 in accordance with UKCA SI 465/2019.



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Declared Performance:

Technical Characteristics	Performance	Harmonised Specification
Operating Voltage	10 Vdc to 28 Vdc	EN54-7: 2018
Quiescent Current	50 μ A @ 24 Vdc	
Alarm Current (Including Indicator)	50 mA @ 24 Vdc	
Remote LED Indicator Current	2 mA	
Operating Temperature	-12°C to +50°C	
Relative Humidity	\leq RH 95%	
ATEX Specification	Ex ia IIC T4 Ga	
Dimensions	\varnothing 104mm x 35mm	
Mass	105 g	
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	0.210 to 0.286 dB/m	EN54-7: 2018 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
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 (SO ₂) 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

