

# EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS09ATEX26418X**

4. **Product:** EVC-PY-IS INTRINSICALLY SAFE OPTICAL SMOKE DETECTOR

5. **Manufacturer:** Nittan Europe Ltd

6. **Address:** Hipley Street, Old Woking,  
Surrey, GU22 9LQ  
United Kingdom

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report No. G102601787 dated June 2016, Intertek Report No. G101798991 dated September 2014, Intertek Ref No. 11055344 dated June 2013 and Intertek Report Ref 09040506 Issue 1 dated June 2010.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012/A11:2013 and EN 60079-11:2012, except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



II 1 G Ex ia IIC T4,  
-20°C ≤ Ta ≤ 50°C

27-02-2020

Certificate issue date

**Alessandro Savio**  
Certification Officer  
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



## SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX26418X

### 13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The EVC-PY-IS Intrinsically Safe Optical Smoke Detector is a low profile photoelectric smoke detector designed for use in conventional fire detection system.

The EVC-PY-IS comprises a printed circuit board (PCB) containing electronic components including a photoelectric sensor housed in a plastic enclosure. The enclosure is fitted to the mounting base Type UB-4-IS or Type EV-SPB-IS, which contains a PCB with terminal blocks.

The enclosure provides a Degree of Protection of at least IP20.

Connections to external circuits are made to the terminals located in the mounting base.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance, infallible current limiting resistors and infallible segregation.

The maximum intrinsically safe input parameters at terminals 1 and 2 are as follows:

$U_i = 28 \text{ V}$   
 $I_i = 93 \text{ mA}$   
 $P_i = 0.65 \text{ W}$

The equivalent parameters are:

$C_i = 0$   
 $L_i = 0$   
 $C_o = 83 \text{ nF}$   
 $L_o = 3.5 \text{ mH}$   
 $L_o / R_o = 46 \mu\text{H} / \Omega$

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
EVC-PY-IS Assembly	102217	1	21/10/09
EVC-PY-IS External Appearance	102274	1	21/05/10
Cover Logo EVC-PY-IS	102209	2	04/12/12
EV-SPB-IS Base Appearance	102280	1	25/05/10
EVC-PY-IS Label	102160	6	16/05/16
EVC-PY-IS Consilium Label	102342	3	16/05/16
EV-SPB-IS Base Label	102279	1	25/05/10
Schematic	102224	1	13/11/09
PCB Artwork Details	102225, sheets 1 to 7	2	26/05/10
SA01/EVC-PY-IS (4 sheets)	EVC-PY-IS-01	3	14/08/14
UB-4-IS Specification Sheet	102233	2	11/06/10
UB-4-IS Label	102232	1	23/11/09
EV-SPB-IS Base Parts List	F03N82029	1	28/05/10
NS-ADAPT-IS Circuit Diagram	069947	1	20/06/96
NS-ADAPT PCB Details	095025, sheets 1 to 6	1	20/06/96

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.



## SCHEDULE

**EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX26418X**

### 15. SPECIAL CONDITIONS FOR SAFE USE

- Users shall be provided with instructions to minimize risk from electrostatic discharge.

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report No. G102601787 dated June 2016, Intertek Report No. G101798991 dated September 2014, Intertek Ref No. 11055344 dated June 2013 and Intertek Report Ref 09040506 Issue 1 dated June 2010.

### 17. ROUTINE (FACTORY) TESTS

Not applicable.

### 18. DETAIL OF CERTIFICATE CHANGES

None.