1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS22UKEX0012X**

4 Product: **22051EISE Photo/Optical Detector**

5 Manufacturer: **Pittway Technologica S.r.l.**

6 Address: **Via Caboto 19/3, 34147 Trieste, Italy**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR22.0009/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the Schedule.

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

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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:

Ex II 1G Ex ia IIC T5 / T4 Ga (-20°C ≤ Ta ≤ 40°C / 60°C)

SGS Baseefa Customer Reference No. **5350** Project File No. **21/0313**

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UKAS PRODUCT CERTIFICATION
0191

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number BAS22UKEX0012X**

15 Description of Product

The 22051EISE Intelligent Photo/Optical Smoke Detector including models TC842B1007 AE, and IDX-751 AE are designed to detect the presence of smoke within a photo electronic sensing chamber and provide a local alarm indication by two LEDs and an alarm signal for connection to a remote control panel via a dedicated Galvanic Isolator with an IST200 Translator Module. Two rotary decade address switches are provided to set the sensor address between 00 and 99. The Detector may be tested for correct operation by use of an external test magnet which actuates an internal reed switch. The Smoke Detector is mounted on a fixed Base Unit Type B501AP which contains the field terminals for connection to the Galvanic Isolator and / or a subsequent Smoke Detector in the daisy chain.

The Smoke Detector comprises an outer plastic cover which has four openings which are protected by a wire gauze screen which permits smoke particles to enter the sensing chamber. Two LEDs are visible externally and provide the local alarm indication. The electronic components are mounted on the underside of a single printed circuit board. Three spring connectors pass the connections between the fixed base unit and the Smoke Detector. The rotary decade address switches are set on installation and are only accessible when the Smoke Detector is separated from the fixed base unit.

$U_i = U_o = 28V$

$I_i = I_o = 94mA$

$P_i = P_o = 0.7W$

$C_i = 0 \quad L_i = 0$

16 Report Number

GB/BAS/ExTR22.0009/00

17 Specific Conditions of Use

1. The 22051EISE Intelligent Photo/Optical Smoke Detector is considered to present an electrostatic hazard and must not be rubbed or cleaned in a hazardous area. A Warning Label is attached: - “Warning Electrostatic Hazard. Do not clean with a dry cloth”

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	Protection against other hazards (LVD type requirements, etc.)
14	Overloading of equipment (protection relays, etc.)
22(1)	External effects
22(2)	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
L00-0970-001	1 of 1	A	02.02.2022	Top Label: IDX-751AE
L00-0968-001	1 of 1	A	02.02.2022	Top Label: 22051EISE
L00-0971-001	1 of 1	A	02.02.2022	Top Label: TC842B1007 AE

These drawings are common to Baseefa08ATEX0278X and held with IECEx BAS 08.0092X.

For other drawings not resubmitted for this assessment see Bassefa08ATEX0278X Issue 5.