

1 EC-TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 **EC-Type Examination Certificate No:** FM11ATEX0045X

4 **Equipment or protective system:** IPES-IR3 Flame Detector
(Type Reference and Name)

5 **Name of Applicant:** Electronstandart-pribor

6 **Address of Applicant:** No. 35/2 Slavy Avenue
Saint Petersburg 192286
Russian Federation

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3040249EC dated 25 July 2011

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0: 2009, EN 60079-1: 2007 and EN 60529: 1991 + A1: 2000.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 2 G Ex d IIC T4 Gb Ta = -40°C to +85°C; IP66

Andrew Was
Certification Manager, FM Approvals Ltd.

Issue date: 23rd August 2011

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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SCHEDULE

to EC-Type Examination Certificate No. FM11ATEX0045X

13 **Description of Equipment or Protective System:**

The IPES-IR3 Flame Detector is a nominal 24 Vdc (18 to 32 Vdc range) device intended for connection to a compatible controller that provides separate power and alarm initiating circuits. Output options include dry Form "C" relay contacts (rated 10 mA to 5 A at 32 Vdc), a 4-20 mA analog output and RS-485 digital signal protocol output.

The IPES-IR3 Flame Detector enclosure is a cylindrical shaped housing constructed of aluminum alloy. Both ends of the housing are closed by covers. The base cover is solid and contains the external grounding lug, wiring entry and bracket mounting post. The window cover contains one sapphire lens cemented in place and externally protected by permanent guards. The window cover also contains the mounting holes for the electronics. The base cover is provided with one ¾ inch - 14 NPT conduit entry. O-rings are provided on the covers for environmental protection. The maximum free internal volume of the apparatus is approximately 452 cm³.

14 **Special Conditions for Safe Use:**

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
2. The manufacturer specifies the cover fasteners to be M5 x 16 hexagon socket head cap screws of A2-70 stainless steel quality or better.

15 **Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 **Test and Assessment Procedure and Conditions:**

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

17 **Approved Drawings**

Details of the approved drawings and documents are identified in the confidential report identified in item 8.

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