



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 15ATEX1260** Issue: **0**

4 Equipment: **Optical beam smoke detector (Fireray 3000 Ex d)**

5 Applicant: **FFE Limited**

6 Address: 9 Hunting Gate
Hitchin
Hertfordshire SG4 0TJ
England

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

8 Sira Certification Service, notified body number 0518 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 the confidential reports listed in Section 14.2.

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

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-28:2007 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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 and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 GD
Ex db op is IIC T6 Gb
Ex tb IIIC T85°C Db
Ta = -20°C to +55°C

Project Number 70021163


N Jones
Certification Manager

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Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX1260
Issue 0

13 DESCRIPTION OF EQUIPMENT

The Fireray 3000 Ex d Optical Beam Smoke Detector is used for fire detection in explosive atmospheres. It utilises a Transmitter to project a modulated infra-red beam across the protected area to a Receiver mounted opposite. The received signal strength is monitored and analysed in the Receiver, and should the signal strength fall below the pre-set threshold for more than the fire delay selected by the user, a fire alarm is signalled. A low-level control unit allows adjustment and testing from a non-hazardous location.

The Transmitter and Receiver are fitted inside an aluminium alloy or stainless steel cylindrical EMH29 enclosure with a threaded window cover. The enclosure is manufactured by JCE (Europe) Limited and is certified under TRAC 13ATEX0058U.

Cable entry holes are provided as specified on the certified drawings. Entries are to be fitted with suitably certified cable glands or blanking plugs, as appropriate, maintaining the ingress protection marked on the equipment, with a minimum of IP 66.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	18 December 2015	R70021163A	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Certificate Annexe



Certificate Number: Sira 15ATEX1260
Equipment: Optical beam smoke detector (Fireray 3000 Ex d)
Applicant: FFE Limited

Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
3000-115	1 of 1	01	09 Dec 15	General Arrangement
0040-233	1 of 1	01	09 Dec 15	LABEL

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Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org