



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1344** Issue: **0**

4 Equipment: **FL3110, FL3111 & FL3112 Flame Detectors**

5 Applicant: **General Monitors Ireland Ltd**

6 Address: **General Monitors Ireland Ltd,
Ballybrit Business Park, Galway,
Ireland**

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 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009

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 G D

FL3110/FL3111

Ex de IIC T5/T4 Gb

Ex tb IIIC T100°C/T135°C Db IP6X

Tamb -40°C to +75°C/90°C

FL3112

Ex de IIC T6/T5 Gb

Ex tb IIIC T85°C/T100°C Db IP6X

Tamb -40°C to +65°C/75°C

Project Number 22217

D Stubbings BA MIET
Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1344
Issue 0

13 DESCRIPTION OF EQUIPMENT

The FL3110, FL3111 & FL3112 Flame Detectors, are ultraviolet/infra-red flame detectors that are rated at 24 V dc. They are manufactured from 316 stainless steel or aluminium bronze AB2. The enclosure is cylindrical in shape and incorporates two separate compartments: electronic and terminal. The electronic compartment cover is secured by five M4 x 10 socket-head flat countersunk screws (grade 8.8) that pass through the enclosure side-wall and the terminal compartment cover is secured by three M4 x 10 socket-head flat countersunk screws (grade 8.8) that pass through the enclosure side-wall. The electronic compartment cover may contain one or two circular synthetic sapphire windows and a light rod.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report number | Comment |
|-------|--------------|---------------|-----------------------------------|
| 0 | 7 March 2011 | R22217A/00 | The release of prime certificate. |

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

15.1 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 10ATEX1344
Equipment: FL3110, FL3111 & FL3112 Flame Detectors
Applicant: General Monitors Ireland Ltd



Issue 0

| Drawing | Sheets | Rev | Date(Sira stamp) | Title |
|---------|--------|-----|------------------|--------------------------------|
| 71301 | 1 of 1 | C | 03 Mar 11 | FL3112 Approval Drawing |
| 71319 | 2 of 2 | F | 14 Feb 11 | FL3112 Nameplate |
| 71501 | 1 of 1 | D | 03 Mar 11 | FL3110/FL3111 Approval Drawing |
| 71519 | 2 of 2 | J | 14 Feb 11 | FL3110/FL3111 Nameplate |

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