



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1364** Issue: **0**

4 Equipment: **FlameGard 5 Test Lamp**

5 Applicant: **Mine Safety Appliances Company**

6 Address: 1000 Cranberry Woods Drive  
Cranberry Township  
Pennsylvania 16066  
USA

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 60079-0:2004      EN 60079-1:2004      IEC 61241-0:2004      EN 61241-1:2004

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  
Ex d IIB+H<sub>2</sub> T4 (Ta -15°C to +50°C)  
Ex tD A21 IP 6X T110°C

D R Stubbings BA MIET  
Certification Manager

Project Number 23689  
C. Index 14

This certificate and its schedules may only be reproduced in its entirety and without change.



## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

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Issue 0

#### 13 DESCRIPTION OF EQUIPMENT

The FlameGard 5 Test Lamp is a battery-operated, rechargeable test lamp that has a rated output of 12 VDC 130 W max and is used for either UV, UV/IR or digital frequency IR flame detection systems. It is constructed from cast aluminium alloy, and incorporates a control board and Nickel Metal Hydride battery assembly that perform the equipment's measuring function. The enclosure utilises a 4½-16 UN-2A/2B thread at one end to fit a lamp cap assembly, it also incorporates a PG 9 threaded aluminium stopping plug to gain access to a jack plug and a PG 11 threaded aluminium piezo switch. The enclosure and lamp assembly are secured against loosening by a 5/64" Hex drive socket screw. The lamp cap assembly contains a sapphire window and is secured against loosening by a 4½-16 UNF-2A/2B threaded aluminium retainer.

##### Variation 1

This variation introduced the following change:

- i. Minor modifications to the certified drawings, none of which affect the original assessments.

##### Variation 2

This variation introduced the following change:

- i. The removal of one battery manufacturer from the list of suppliers.

##### Variation 3

This variation introduced the following change:

- i. To recognise the use of alternate and replacement terminal crimps within the battery pack assembly.
- ii. To recognise the use of alternate components on the battery pack PCB board.
- iii. To permit dimensional changes to the battery power pack.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	14 March 2011	R23689A/00	The release of the prime certificate and incorporating Variations 1 to 3 inclusive.

##### 14.3 Certificate number Sira 06ATEX1301 Issue 3

#### 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.

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### Sira Certification Service

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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.

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# Certificate Annexe

Certificate Number: Sira 10ATEX1364  
Equipment: FlameGard 5 Test Lamp  
Applicant: Mine Safety Appliances Company

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## Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Description
910003	1 of 1	A	01 Feb 11	Nameplate MSA FlameGard 5 Test Lamp

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