



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx FMG 09.0016X issue No.:2

Status: **Current**

Certificate history:  
Issue No. 2 (2013-4-11)  
Issue No. 1 (2011-1-7)  
Issue No. 0 (2010-4-9)

Date of Issue: 2013-04-11 Page 1 of 4

Applicant: **Fire Sentry Corporation**  
23311 La Palma Avenue  
Yorba Linda, CA 92887  
United States of America

Electrical Apparatus: **Flame Detectors**  
*Optional accessory:*

Type of Protection: **Flameproof 'd', Protection by Enclosure 'tb'**

Marking: Ex d IIC \*  
FS18X: T4 Ta=-20°C to +110°C, T5 Ta= -20°C to +75°C, T6 Ta=-20°C to +60°C  
FS19X: T4 Ta=-40°C to +110°C, T5 Ta= -40°C to +75°C, T6 Ta=-40°C to +60°C  
FS20X: T4 Ta=-40°C to +110°C, T5 Ta= -40°C to +75°C, T6 Ta=-40°C to +60°C  
FS24X: T4 Ta=-40°C to +110°C, T5 Ta= -40°C to +75°C, T6 Ta=-40°C to +60°C  
FS24X-9: T4 Ta=-60°C to +110°C, T5 Ta= -60°C to +75°C, T6 Ta=-60°C to +60°C  
SS2: T4 Ta=-40°C to +85°C, T5 Ta= -40°C to +75°C, T6 Ta=-40°C to +60°C  
SS4: T4 Ta=-40°C to +85°C, T5 Ta= -40°C to +75°C, T6 Ta=-40°C to +60°C  
Ex tb IIC T135°C

Approved for issue on behalf of the IECEx Certification Body: J. E. Marquedant

Position: Group Manager

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**FM Approvals LLC**  
1151 Boston-Providence Turnpike  
Norwood, MA 02062  
United States of America



Member of the FM Global Group



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Manufacturer: **Fire Sentry Corporation**  
23311 La Palma Avenue  
Yorba Linda, CA 92887  
**United States of America**

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

|  |  |
|--|--|
| <b>IEC 60079-0 : 2011</b><br>Edition: 6.0  | Explosive atmospheres - Part 0: General requirements                                 |
| <b>IEC 60079-1 : 2007-04</b><br>Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-31 : 2008</b><br>Edition: 1   | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't' |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

US/FMG/ExTR10.0008/00

US/FMG/ExTR10.0008/01

US/FMG/ExTR10.0008/02

#### Quality Assessment Report:

GB/FME/QAR10.0004/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

FS18X, FS19X, FS20X, FS24X, FS24X-9, SS2, and SS4.

**CONDITIONS OF CERTIFICATION: YES as shown below:**

1. WARNING: ELECTROSTATIC HAZARD DO NOT RUB WITH DRY CLOTH



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

The purpose of the revised certificate is to update compliance to the IEC 60079-0: 2011 (Edition 6) and IEC 60079-31: 2008 (Edition 1)