



# 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 BAS 08.0073 issue No.:2

Status: **Current**

Certificate history:  
Issue No. 2 (2015-5-6)  
Issue No. 1 (2014-4-30)  
Issue No. 0 (2009-1-6)

Date of Issue: **2015-05-06** Page 1 of 4

Applicant: **FFE Ltd**  
9 Hunting Gate  
Wilbury Way  
Hitchin  
Hertfordshire  
SG4 0TJ  
United Kingdom

Electrical Apparatus: **Type 016xxx Series Flame Sensor**  
Optional accessory:


Type of Protection: **Flameproof & Dust**

Marking: **Ex db IIC T4 Gb**  
**Ex tb IIIC T135°C Db**  
**T<sub>amb</sub> = -40°C to 85°C**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:  
(for printed version)

  
\_\_\_\_\_  
12/5/15

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:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





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Manufacturer: **FFE Ltd**  
9 Hunting Gate  
Wilbury Way  
Hitchin  
Hertfordshire  
SG4 0TJ  
**United Kingdom**

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> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition: 2	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:

GB/BAS/ExTR08.0150/00

GB/BAS/ExTR15.0028/00

##### Quality Assessment Report:

GB/SIR/QAR13.0025/01



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## Schedule

### EQUIPMENT:

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

The 016xxx Series Flame Sensor comprises a cylindrical enclosure manufactured from aluminium alloy or stainless steel with a threaded cover containing a window. The base has three integral bosses, two of which are drilled and tapped to accept up to three cable entries, the third is used for the attachment of the label.

The interior comprises a Type 016xxx flame sensor manufactured by Talentum Developments Limited.

The flame detector is rated up to 30V, 1A.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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

### Variation 1.1

To confirm that the type 016xxx series fire sensor covered by this certificate have been reviewed as being in compliance with the latest standards as listed below :-

IEC 60079-0:2011 Edition 6, IEC 60079-1:2014 Edition 7 and IEC 60079-31:2013 Edition 2.

### Variation 1.2

The ambient temperature range has been reduced to :-

Tamb = -40°C to 85°C

ExTR: GB/BAS/ExTR15.0028/00

File Reference: 14/0909