



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX FMG 23.0037X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-05-15

Applicant: **Crowcon Detection Instruments Ltd**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD.  
**United Kingdom**

Equipment: **FGard UV/IR Flame Detector**

Optional accessory:

Type of Protection: **Flameproof "db"**

Marking: **IECEX FMG 23.0037X**  
**Ex db IIC T4 Gb Ta = -60°C to +85°C, IP67**

Approved for issue on behalf of the IECEx  
Certification Body:

**J. E. Marquedant**

Position:

**VP, Manager - Electrical Systems**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**FM Approvals LLC**  
**One Technology Way**  
**Norwood MA 02062**  
**United States of America**





# IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 23.0037X**

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Date of issue: 2024-05-15

Issue No: 0

Manufacturer: **Crowcon Detection Instruments Ltd**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD United Kingdom  
**United Kingdom**

Manufacturing  
locations:

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 equipment 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

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

This Certificate **does not** indicate compliance with 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/ExTR24.0006/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0070/11](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The FGard UV/IR Flame Detector includes an Aluminium or Stainless Steel assembly consisting of a threaded enclosure body, a threaded back cover and a threaded window cover. An O-ring seal is provided at each end between the enclosure body and the back cover / window cover respectively in order to prevent the ingress of dust and water.

The electrical ratings are 32Vdc maximum and 500 mA maximum. The ambient temperature range of the equipment is from -60°C to +85°C.

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. The equipment is to be installed in places where there is a low risk of mechanical damage.
2. Flamepath joints are not intended to be repaired.