



1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No: FM21ATEX0013X

4. Equipment or protective system:
(Type Reference and Name) FGard IR3 Flame Detector
FGard H2 Flame Detector

5. Name of Applicant: Crowcon Detection Instruments Ltd

6. Address of Applicant 172 Brook Drive,
Milton Park,
Abingdon,
Oxfordshire, OX14 4SD, United Kingdom

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, 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 confidential report number:

PR459719 dated 1st September 2021

9. Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60529:1991+A1:2000+A2:2013

10. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

Certificate issued by:

 Digitally signed
by Richard
Zammit
Location:
Ireland
Foxit PDF Editor
Version: 13.1.0

Certification Manager, FM Approvals Europe Ltd.

Date 6 June 2024

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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12. The marking of the equipment or protective system shall include:



II 2 G Ex db IIC T4 Gb Ta = -60°C to +85°C

13. Description of Equipment or Protective System:

The FGard IR3 and FGard H2 Flame Detectors include 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 700 mA (maximum). The ambient temperature range of the equipment is from -60°C to +85°C.

The equipment enclosure has an ingress protection rating of IP67.

14. Specific Conditions of Use:

The equipment shall be installed in places where there is a low risk of mechanical damage.

15. Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16. Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17. Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body. The documentation is maintained under project 3062102.

18. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 September 2021	Original Issue.

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Member of the FM Global Group

Date	Description
6 June 2024	<u>Supplement 1:</u> Report Reference: PR464858 dated 3 June 2024. Description of the Change(s): Addition of FGard H2 Flame Detector. Reformatted project PR459719's FGard IR listing to align it with a shared certificate structure. Updated IP66 to IP67.

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ANNEX

FGard H2 Flame Detector

Description of Equipment:

FGard H2 Flame Detector

FGard IR3 Flame Detector

Description of Equipment:

FGard IR3 Flame Detector

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