



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

Certificate No.: IECEx FMG 15.0014X Issue No: 5 Certificate history:
Status: **Current** Issue No. 5 (2017-08-28)
Date of Issue: **2017-08-28** Issue No. 4 (2017-02-20)
Applicant: **Detector Electronics Corporation** Issue No. 3 (2016-10-22)
6901 West 110th Street Issue No. 2 (2016-04-11)
Minneapolis, MN 55438 Issue No. 1 (2016-02-04)
United States of America Issue No. 0 (2015-08-24)

Equipment: **SmokeWatch™ Model U5015 and Pyrotector Model 30-3013 Explosionproof
Photoelectric Type Smoke Detector**

Optional accessory:

Type of Protection: **Flameproof 'db' with Intrinsic Safety 'ia'**

Marking: Ex db ia IIC T4 Gb Ta=-20°C ≤ Ta ≤ 65°C IP44

Approved for issue on behalf of the IECEx
Certification Body:

James E. Marquedant

Position:

VP, Manager - Electrical Systems

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





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Manufacturer: **Detector Electronics Corporation**
6901 West 110th Street
Minneapolis, MN 55438
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 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ExTR15.0019/00	US/FMG/ExTR15.0019/01	US/FMG/ExTR15.0019/02
US/FMG/ExTR15.0019/03	US/FMG/ExTR15.0019/04	US/FMG/ExTR15.0019/05

Quality Assessment Report:

[DK/ULD/QAR06.0002/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

aAbcdeFM Explosionproof Photoelectric Type Smoke Detector

a = Model type U5015 or 303013

b = Type Port 1, 2, 3, or 4.

c = Type Thread E, F, N, or M.

d = Type Output 12 or 13.

e = Type Approval A or F

SPECIFIC CONDITIONS OF USE: YES as shown below:

1.

The Models U5015 and 30-3013 are to be installed in locations where risk of mechanical damage is low.

2.

Potential Electrostatic Charging Hazard please see instructions for proper Installation.

3.

All Unused device openings must be closed using a suitably certified plug.

4.

For Field Connections, Use wire rated 20°C greater than maximum ambient temperature.

5.

For Ex db rated Models U5015 and 30-3013 Smoke Detectors, the flameproof joints are not allowed to be repaired per manufacturer's instruction manual.



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