



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

Certificate No.: **IECEX DNV 24.0055X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2024-06-28)

Status: **Current** Issue No: 1

Date of Issue: 2024-10-11

Applicant: **Siemens Schweiz AG**
Theilerstrasse 1a
6300 Zug
Switzerland

Equipment: **Flame Detector**

Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking: **Ex ia IIC T4 Ga**
-40°C ≤ Ta ≤ +70°C

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 24.0055X**

Page 2 of 4

Date of issue: 2024-10-11

Issue No: 1

Manufacturer: **Siemens Schweiz AG**
Theilerstrasse 1a
6300 Zug
Switzerland

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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
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:

[NO/DNV/ExTR24.0059/01](#)

Quality Assessment Report:

[DE/TUN/QAR24.0001/00](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 24.0055X**

Page 3 of 4

Date of issue: 2024-10-11

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The FDF242-EX is a triple IR Flame detector.

The product consists of two PCB's connected together.

The detector shall be supplied by an ATEX certified barrier corresponding with the Ex marking and the entity parameters of this certificate and report.

There is also a line to external alarm indicators, with intrinsically safe output parameters.

Terminals:

X100 (P2 Interface): for connection to the barrier and other fire detectors.

X101 (Alarm Indicators): For connection to alarm indicators.

X200: for programming and de-bugging during production. Shall not be used after installation.

X202: for programming and de-bugging during production. Shall not be used after installation.

X201 (ASH interface): for connection to detector board.

Type designation

FDF242-EX

Intrinsic Safety Parameters

X100: Ui: 28V, Ii: 100mA, Pi: 700mW, Ci: 0,5nF, Li: Neg.

X101: Uo: 14,1V, Io: 14mA, Po: 48mW, Co: 707nF, Lo: 150mH

The safety parameter values stated assume that the power supply / barrier has a linear resistive output characteristic

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. POTENTIAL ELECTROSTATIC CHARGING HAZARD
2. AVOID AN IGNITION HAZARD DUE TO IMPACT OR FRICTION



IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 24.0055X**

Page 4 of 4

Date of issue: 2024-10-11

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update to IEC 60079-11:2023, new Notified Body number on marking label and editorial changes in BOM.