



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 ETL 23.0046X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2023-11-20		
Applicant:	Fireye Inc. 3 Manchester Rd. Derry NH 03038 United States of America		
Equipment:	Flame Sensor		
Optional accessory:			
Type of Protection:	Increased Safety "ec"		
Marking:	Ex ec IIC T3 -15°C to 140°C IECEx ETL 23.0046X		

Approved for issue on behalf of the IECEx
Certification Body:

Todd L. Relyea

Position:

Certification Officer

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:

Intertek
3933 US Route 11 South
Cortland NY 13045-2995
United States of America

intertek



IECEX Certificate of Conformity

Certificate No.: **IECEX ETL 23.0046X**

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Date of issue: 2023-11-20

Issue No: 0

Manufacturer: **Fireye Inc.**
3 Manchester Rd.
Derry NH 03038
United States of America

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 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ETL/ExTR23.0045/00

Quality Assessment Report:

US/UL/QAR16.0017/04



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Date of issue: 2023-11-20

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is a Turbine Flame Sensor which responds to ultraviolet optical energy from the flame (200-400 nanometers) and has a loop-powered 4-20mA output representing flame brightness from a very low level. The Sensor has an electrical connection on one side and a fiber optic cable assembly on the opposite side.

VFS2000-K, NED-GEAC-2000-K, or NED-GEAC-2000; -K may be followed by two numbers.

Used with 59-606XXX or 59-621XXX cable assembly (XXX = length)

SPECIFIC CONDITIONS OF USE: YES as shown below:

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – CLEAN WITH A DAMP CLOTH ONLY

Annex:

[SFT-IECEx-OP-19f - Annex for IECEx Certificate of Conformity - Final Clean FIREYE_1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 23.0046X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Label, Unit	55-8249	3	11/10/2023
Housing Electronics Turbine	1-1183	1	4/26/2023
Connector, 5 Pin Flanged	21-925	1	4/28/2023
O-Ring Seal	29-441	2	9/1/2023
O-Ring Seal	34-300	2	9/1/2023
O-Ring Seal	34-299	2	9/1/2023
Seal, Gasket, Connector	29-444	2	9/1/2023
Cap Housing Turbine	44-169	1	4/26/2023
Turbine Flame Sensor Assembly	60-2964	3	09/05/2023
Electronic Assembly	60-2986	2	6/9/2023
Turbine sensor PCB	3-2967	8	10/27/2023
Top Level Schematic	75-6825	6	9/22/2023
Cable Assembly, Turbine Sensor, EU	59-621	1	8/28/2023
Cable Assembly, Turbine Sensor	59-606	2	8/28/2023
Lens, Plano Convex	46-202	1	4/28/2023
Objective Lens Assembly	61-7447	2	9/01/2023
Fiber Optic Bundle Turbine	61-7492	1	4/26/2023
Adapter, Lens Turbine	63-167	1	4/26/2023
Turbine Sensor Assembly with Window	60-2989	3	7/13/2023
61-7424_Turbine Sensor PCA Agency Parts List	127-3639	6	9/17/2023
NED-GEAC-2000 Turbine Flame Sensor	CU-123	-	9/21/2023
VFS-2000 Turbine Flame Sensor	CU-125	-	9/27/2023

Certificate issued by:

intertek
Total Quality. Assured.

Intertek Testing Services NA, Inc
3933 US Route 11 South
Cortland, NY 13045 USA

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Required Manufacturer Routine Testing		
Test	Title/Description of Test	Standard and Clause
1	Dielectric test at 500 V r.m.s. maintained for at least 1 minute without dielectric breakdown occurring between circuits and dead metal. Alternatively, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100 ms.	IEC 60079-7 Clause 7.1

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