



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 LCIE 13.0022X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2019-10-24)

Issue 0 (2013-04-24)

Date of Issue: 2020-06-26

Applicant: **TELEDYNE OLDHAM SIMTRONICS SAS**
Z.I. Est - Rue Orfila
Arras 62027 Cedex
France

Equipment: **Flame detector - Type: DF-*V7-X***-*****

Optional accessory:

Type of Protection: **Ex db**

Marking: Ex db IIC/IIB T6 Gb

IECEx LCIE 13.0022 X

See attachment for full marking.

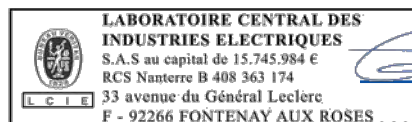
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)



Date:

2020-06-26

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:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





IECEx Certificate of Conformity

Certificate No.: **IECEx LCIE 13.0022X**

Page 2 of 4

Date of issue: 2020-06-26

Issue No: 2

Manufacturer: **TELEDYNE OLDHAM SIMTRONICS SAS**
Z.I. Est - Rue Orfila
Arras 62027 Cedex
France

Additional
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 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 Reports:

[FR/LCIE/ExTR13.0021/00](#)
[FR/LCIE/ExTR20.0050/00](#)

[FR/LCIE/ExTR19.0013/00](#)

[FR/LCIE/ExTR19.0108/00](#)

Quality Assessment Report:

[FR/INE/QAR06.0006/10](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx LCIE 13.0022X**

Page 3 of 4

Date of issue: 2020-06-26

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is mainly constituted by a flameproof "d" enclosure fitted with flame detector sensor which can include several types of electronic PCB and IR communication head.

Hole A can receive the following elements:

- An "IRDA plug" with a glass window.
- A blanking element.
- A NPT/ISO adaptor.

Hole B can receive an adaptor element where the flame cartridge get installed.

See attachment for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- User shall install Ex certified cable gland that do not degrade protection mode.
- Only the screw of property class A4 (yield stress $\geq 600\text{MPa}$) must be used as a special fastener.



IECEx Certificate of Conformity

Certificate No.: **IECEx LCIE 13.0022X**

Page 4 of 4

Date of issue: 2020-06-26

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 00:

- Initial issue according to IEC 60079-0:2011 (Ed.6.0), IEC 60079-1:2007 (Ed.6.0) standards.

Issue 01:

A. New issue relative to the ExTR N° FR/LCIE/ExTR19.0013/00:

- Normative update according to IEC 60079-0:2014 (Ed.7.0)
- Addition of a numeric board (PIE 3560) called type D.
- Addition of a new relay electronic board (PIE 3558).
- Excluding TCM sensor and a display device.

B. New issue relative to the ExTR n° FR/LCIE/ExTR19.0108/00:

- Name and address changes regarding Applicant and Manufacturer.

Issue 02:

- Name and address changes regarding Applicant and Manufacturer.

Annex:

[Annex to Certificate IECEx LCIE 13.0022X Issue 02.pdf](#)

MARKING

TELEDYNE OLDHAM SIMTRONICS

Type: DF-*V7-X***-***

Serial number: ...

Year of construction: ...

Ex db IIB (*) or IIC T6 Gb

-40°C ≤ T_{amb} ≤ +65°C

IECEx LCIE 13.0022X

WARNING – DO NOT OPEN WHEN ENERGIZED

WARNING – AFTER DE-ENERGIZING, DELAY 2 MINUTES BEFORE OPENING.

(*) IIB: thickness of the painting is > 200 µm

RANGE DETAILS

| DF-*V7-X***-*** | DF | -*V7 | -X*** | -*** |
|-----------------|------|---------------------|----------------------|--|
| | Type | Detector type | Type of flame | Type |
| | | C**: Compact sensor | XV**: UVIR2 | 0**: Not use |
| | | T**: Telecaptor | XT**: IR3 | |
| | | R**: Network captor | XW**: UV | |
| | | Family | Detection range | Variation |
| | | *V*: Flame | **A0: Standard range | *X*: SS316 |
| | | | **B0: Long range | |
| | | Generation | | Interface |
| | | **7: BT10 enclosure | | **A: 0-22mA protocole |
| | | | | **E: 4-20 mA protocole |
| | | | | **H: 4-20 mA / 0-22 mA configurable & HART protocole |
| | | | | **C: 4-20 mA / 0-22 mA configurable |
| | | | | **L: LON |

RATINGS

35V, 15W

ROUTINE TESTS

- According to clause 16.1.1 of IEC 60079-1 standard, each flameproof enclosure shall be submitted to an overpressure test during minimum 10 seconds at 15,56 bar for the electronic compartment and 15.62 bar for the cartridge compartment.

Note: The IRDA Plug is exempted from routine test.

APPARATUS OVERVIEW

