



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 24.0014X** Page 1 of 5 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-01-14
Applicant: **FINSECUR**
62 rue Ernest Renan
Nanterre 92000
France
Equipment: **Point Type Infrared Flame Detector – Type: Sextant-IR3+ Ex**
Optional accessory:
Type of Protection: **Flameproof enclosure "db" and Dust Ignition Protection by Enclosure "tb"**
Marking: Ex db IIC T6 Gb
Ex tb IIIC T80 °C Db
(See section "Additional information" below for complete marking)

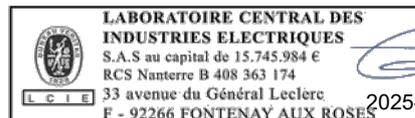
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)



Date:
(for printed version)

2025-01-14

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





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Date of issue: 2025-01-14

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Manufacturer: **FINSECUR**
62 rue Ernest Renan
Nanterre 92000
France

Manufacturing
locations: **JADE BIRD FIRE CO.LTD.**
Industrial Park, ZhuaXia Road
Zhuolu County, Hebei
China

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[FR/LCIE/ExTR24.0051/00](#)

Quality Assessment Report:

[FR/LCIE/QAR24.0001/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Sextant-IR3+ Ex is a Point Type Infrared Flame Detector with types of protection "db" and "tb".

The detector is fitted with three four-channel infrared sensors supported by an integrated high-speed microprocessor and an advanced signal processing algorithm. The internal electronics includes five PCBs; a drive circuit board with the pyroelectric infrared detectors, a main control board, a power board and the two terminal PCBs which provide the connections for field wiring.

The metallic enclosure of the detector, made of die-cast aluminium, consists of:

- A Front Shell equipped with a glass window cemented into it.
- A Medium Shell.
- A Rear Shell giving the access to the terminals.

The Front Shell and the Rear Shell are screwed onto the Medium Shell, each assembly forming a threaded flameproof joint. An O-ring seal is provided at each end of the Medium Shell in order to prevent the ingress of dust or water.

The enclosure has three ISO metric M20x1,5 holes for the installation of entry devices separately certified.

The detector is also equipped with a mounting bracket which allows to point it towards the area to be monitored.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The flameproof joints are not intended to be repaired.
- Cable glands and cables must be suitable for a service temperature range from -40 °C to at least +77 °C.



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Equipment (continued):

Ratings:

Rated supply voltage: 24 V d.c. (voltage range from 18,5 V d.c. to 30 V d.c.)

Maximum current depending on operating mode: Standby: 27 mA / In alarm: 40 mA / In defrost mode: 220 mA.

Ambient operating temperature range : $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +75\text{ }^{\circ}\text{C}$



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Date of issue: 2025-01-14

Issue No: 0

Additional information:

Complete Marking:

FINSECUR

Address : ...

Type : Sextant-IR3+ Ex

Serial number : ...

Year of construction : ...

Ex db IIC T6 Gb

Ex tb IIIC T80 °C Db

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WARNING – DO NOT OPEN WHEN ENERGIZED

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

$-40\text{ °C} \leq T_{\text{amb}} \leq +75\text{ °C}$

Threaded entries : M20x1.5

Routine test:

In accordance with clauses 6.1.2 and 16.1 of IEC 60079-1 standard, each Front Shell with cemented glass window (reference drawing MCH02901) shall be submitted to a static overpressure test at 1,32 MPa (relative pressure). The period of application of the pressure shall be at least 10 s. No permanent deformation, no damage and no leakage at the cemented joint must be observed following the test.