

# TYPE-EXAMINATION CERTIFICATE

1. Type-examination Certificate (Module A)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. Type examination certificate Nr **ITS16ATEX48405X R.1**

4. **Product:** Flame Tracker™ (RS-FS-9001 and RS-FS-9006)

5. **Manufacturer:** Reuter-Stokes, LLC

**Applicant:** Reuter-Stokes, LLC

6. **Address:** 8499 Darrow Road,  
Twinsburg, OH 44087,  
USA

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7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Ref 102368390CRT-003a, -003b, -003c, -003d and -003e dated 11 May 2016.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-7:2015 +A1:2018 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe Use specified in the schedule to this certificate.
11. This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 3 G Ex ec IIC T3 Gc (RS-FS-9001 and RS-FS-9006 at higher ambient of 150°C)

II 3 G Ex ec IIC T2 Gc (RS-FS-9001 and RS-FS-9006 at higher ambient of 235°C)

-40°C ≤ Ta ≤ 150°C

-40°C ≤ Ta ≤ 235°C (Model with cooling option)

IP54

05 October 2021

**Certificate issue date**



**Todd L. Relyea**

Certification Officer  
Intertek Italia S.p.A.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



## SCHEDULE

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### 13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Flame Trackers are used to detect a flame/combustion optically. They sense the UV light given off by the flame and produce a 4-20mA signal in response to the flame. The RS-FS-9001 and RS-FS-9006 are single unit devices. The construction of RS-FS-9001 and RS-FS-9006 are identical devices with RS-FS-9006, part number generated for GE AVIATION.

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
FLAME SENSOR (UV)	FS-9001-CERT	-	09/05/2014
SCH, FLAME SENSOR	FS-9001-20S-CERT	NC	11/10/2014
SCH, SMT FLAME SENSOR	FS-9001-60S-CERT	A	05/09/2016
FLAME SENSOR INTERCONNECTING CABLE	RS-E2-0285-CERT	NC	04/07/2014
REFS INTERCONNECT CABLE	RS-E2-0485-CERT	NC	10/24/2014
CERTIFICATION MARKING-CB	FS-9001-54-CB	F	04/26/2021
FLAME TRACKER™ (4-20mA) QUICK START GUIDE-MODEL RS-FS-9001	FS-9001QSM	F	04/30/2021
FLAME TRACKER™ (4-20mA) QUICK START GUIDE-MODEL RS-FS-9006	FS-9006QSM	F	04/21/2021

*Note: An \* is included before the title of documents that are new or revised.*

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

### 15. SPECIAL CONDITIONS FOR SAFE USE

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104619750DAL-003 dated 07.20.2021.



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### 17. ROUTINE (FACTORY) TESTS

- Equipment shall withstand without breakdown a routine dielectric strength test at 500 V r.m.s. for 60 seconds carried out in accordance with clause 6.1. of EN 60079-7:2015 +A1:2018.

### 18. DETAIL OF CERTIFICATE CHANGES R.1 (27 July 2021)

- Updated the protection type from “Ex nA” to “Ex ec” – Replaced standard EN 60079-15:2010 with EN 60079-7:2015 +A1:2018.
- Updated standard from EN 60079-0:2012 + A11 to EN IEC 60079-0:2018.