

CERTIFICATE OF CONFORMITY



Member of the FM Global Group

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM24US0019X
3. **Equipment:** Talentum Series 16000
(Type Reference and Name)
4. **Name of Listing Company:** FFE Ltd
5. **Address of Listing Company:** 9 Hunting Gate,
Hitchin,
Hertfordshire, SG4 0TJ, United Kingdom

6. The examination and test results are recorded in confidential report number:

3059453 dated 10th July 2023

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3260:2021, FM 3600:2018, FM 3615:2022, FM 3616:2011, ANSI/ISA 60079-0:2013,
ANSI/ISA 60079-1:2013, ANSI/IEC 60529:R2011

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Part Nos. 16519. Talentum Series 16000 Flame Detectors

I/1/AEx db/IIC/T4 Gb, IP66
DIP/II,III/1/EFG/T4, IP66
-20°C ≤ Ta ≤ +85°C

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

19 February 2024

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com, www.fmaprovals.com

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SCHEDULE

US Certificate Of Conformity No: FM24US0019X



11. The marking of the equipment shall include:

FM Mark

12. **Description of Equipment:**

The product is listed in the following sections of the Approval Guide:

Detection, Fire Alarm and Signaling Equipment | Flame (Radiant Energy) Detectors | **Alarm Signal Initiating Devices, Fire Detection, Flame-Actuated**

Electrical Equipment for Explosive Atmospheres | United States Certification | **Detectors, Flame, Explosive Atmospheres - US**

Models	Talentum Series 16000 Flame Detectors, Part Nos.16519 (IR3 Exd), 16589 (IR3), 16591 (UV/IR2)
Firmware	16519. Iss: 20-04 16589. Iss: 20-05 16591. Iss: 20-05
Operating Voltage	14 to 30 V dc
Power Consumption	Standby: 8 mA Alarm: 28 mA
Operating Temperature Range	-20°C to +60°C: 16519, 16589, 16591
Outputs	Fire and fault relays. Required Dip switch settings: both relays operating with RL2 as fault relay
Compatibility	Relays connect to a compatible FM Approved control providing separate power and initiating device circuits. Alarm relay setting as latching.
Sensitivity	High Class 1 setting
Response Time	Delay settings of 1 to 8 s. 30 s maximum response time specification is independent of delay setting.
Fuels tested for response	N-heptane, Methylated Spirit, JP4 (See Instructions for details)
Environmental	IP65: 16589, 16591 IP66: 16519

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SCHEDULE

US Certificate Of Conformity No: FM24US0019X



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Hazardous Location Equipment	Part Nos. 16519. Talentum Series 16000 Flame Detectors I/1/AEx db/IIC/T4 Gb, IP66 DIP/IIJII/1/EFG/T4, IP66 -20°C ≤ Ta ≤ +85°C
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13. Specific Conditions of Use:

1. Suitably rated conduit seal required at the enclosure opening
2. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
3. Risk of explosion due to electro-static charge. Static electricity charge may develop when cleaning the product with a dry cloth. It is imperative to avoid static electricity charge in the hazardous environment. Accessories Mounting brackets and weather shields

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
19 February 2024	Original Issue, reference PR466137

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