

# CERTIFICATE OF CONFORMITY

**1. FIRE PROTECTION EQUIPMENT**

2. **Certificate No:** FM26US0045
3. **Equipment:** Fireray Hub  
(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:

PR471404 dated 17<sup>th</sup> February 2026

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

FM 3230:2023, ANSI/UL 268:2009

8. 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.

9. Approval Guide Listing Category:

Alarm Signal Initiating Devices, Smoke Detectors

**Certificate issued by:**

*J.E. Marquedant*

J.E. Marquedant  
VP, Manager - Electrical Systems

17 February 2026

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

F 320 (Jul 24)



**10. Description of Equipment:**

**Fireray Hub Reflective Beam Detector**

The Fireray Hub Reflective is a modular reflective beam smoke-detection system that supports up to three detectors on a single controller. It uses infrared reflective beam technology with automated alignment, compensation for building movement and contamination, and features intended to reduce false alarms from ambient light. It integrates with conventional or addressable fire panels via voltage-free Fire and Fault relays. Installation supports parallel or network wiring, with up to 100 m cable between controller and detector.

**Technical Specifications**

| Category                            | Specification         | Value                                           |
|-------------------------------------|-----------------------|-------------------------------------------------|
| Detection Range                     | Min–Max               | 8–120 m (26–394 ft)                             |
| Number of Detectors per Controller  | Max                   | 3                                               |
| Alignment Method                    | —                     | Auto-Alignment™, manual option, laser targeting |
| Operating Voltage                   | Range                 | 14–36 V DC                                      |
| Operating Current (1/2/3 detectors) | Typical               | 12.5 / 15 / 17.5 mA                             |
| Fast Align Mode Current             | Typical               | 33 mA                                           |
| Alarm Threshold                     | Range                 | 10–85% (EN54 approved: 25%, 35%)                |
| Delay to Fire                       | Range                 | 2–30 s (EN54 default: 5 s)                      |
| Delay to Fault                      | Range                 | 2–30 s (default 10 s)                           |
| Optical Wavelength                  | —                     | 850 nm                                          |
| Beam Alignment Tolerance            | Detector              | ±4.5°                                           |
| Beam Misalignment Tolerance         | Detector / Reflector  | ±0.5° / ±5°                                     |
| Operating Temperature               | Range                 | –10°C to +55°C                                  |
| Storage Temperature                 | Range                 | –40°C to +85°C                                  |
| Relative Humidity                   | Max                   | 93% non-condensing                              |
| IP Rating                           | Detector / Controller | IP55 / IP65                                     |
| Relay Rating                        | Fire & Fault          | 1 A @ 36 VDC (VFCO)                             |

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)



**CERTIFICATE OF CONFORMITY**  
US Certificate of Conformity No: FM26US0045

|                      |                     |                             |
|----------------------|---------------------|-----------------------------|
| Cable Gauge          | —                   | 24–14 AWG                   |
| Max Cable Length     | —                   | 100 m                       |
| Reflector Dimensions | Single / Four-array | 100×100×9 mm / 200×200×9 mm |

**Accessories**

| Material Number | Description                        |
|-----------------|------------------------------------|
| 1010-000        | Long Range Kit                     |
| 1150-000        | Commissioning and Maintenance Kit  |
| 1030-000        | Reflector Wall Bracket             |
| 1040-000        | Prism Adjustment Bracket           |
| 1050-000        | 4 Prism Adjustment Bracket         |
| 1060-000        | Detector Anti-condensation Heater  |
| 1090-000        | Reflector Anti-condensation Heater |

**11. Test and Assessment Procedure and Conditions:**

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

**12. Schedule Drawings**

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

**13. Certificate History**

Details of the supplements to this certificate are described below:

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)



**CERTIFICATE OF CONFORMITY**  
US Certificate of Conformity No: FM26US0045

| Date             | Description     |
|------------------|-----------------|
| 17 February 2026 | Original Issue. |



To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

F 320 (Jul 24)

