

CERTIFICATE OF CONFORMITY

1. FIRE PROTECTION EQUIPMENT

2. **Certificate No:** FM26US0044
3. **Equipment:** Fireray One
(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 17th 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
VP, Manager - Electrical Systems

17 February 2026

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@fmapprovals.com www.fmapprovals.com

10. Description of Equipment:

Fireray One Reflective Beam Detector

The Fireray One is a standalone reflective beam smoke detector designed for simple, single-point installation without specialist tools. It uses Auto-Alignment™, Building Movement Tracking™, and other compensation technologies to maintain reliable performance in spaces where structural movement, dust buildup, or bright light might otherwise cause alignment issues. It integrates with conventional fire panels via voltage-free Fire and Fault relays and supports both short- and long-range reflector configurations.

Technical Specifications

Category	Specification	Value
Detection Range	Standard / Long Range	5–50 m (16–164 ft) / up to 120 m (394 ft)
Alignment Method	—	Auto-Alignment™, laser targeting, manual optional
Auto-Alignment Protocol	—	Background check, box search, adjust & center
Optical Wavelength	IR / Laser	850 nm / 650 nm (Class 3R <5mW)
Dynamic Beam Phasing	—	Yes (detectors can face each other)
Signal Output	Relays	Fire & Fault VFCO, 0.5A @ 30 VDC
Alarm Thresholds	Options	25%, 35% (default), 55%, 85%
Delay to Alarm	—	10 s
Delay to Fault	—	10 s
Beam Path Clearance	—	1 m diameter
Operating Voltage	—	14–36 V DC
Operating Current	Normal / Alignment	5 mA / 33 mA
Operating Temperature	—	–20°C to +55°C (–4°F to +131°F)
Storage Temperature	—	–40°C to +85°C (–40°F to +185°F)
Relative Humidity	—	0–93% non-condensing
IP Rating	—	IP55

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Maximum Angular Alignment Range	Detector	±4.5°
Beam Misalignment Tolerance	Detector / Reflector	±0.5° / ±5°
Cable Gauge	—	24–14 AWG
Housing	—	UL94 V0 polycarbonate

Accessories

Material Number	Description
1010-000	Long Range Kit
1150-000	Commissioning and Maintenance Kit
1100-000	Fireray One Protective Cage
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

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

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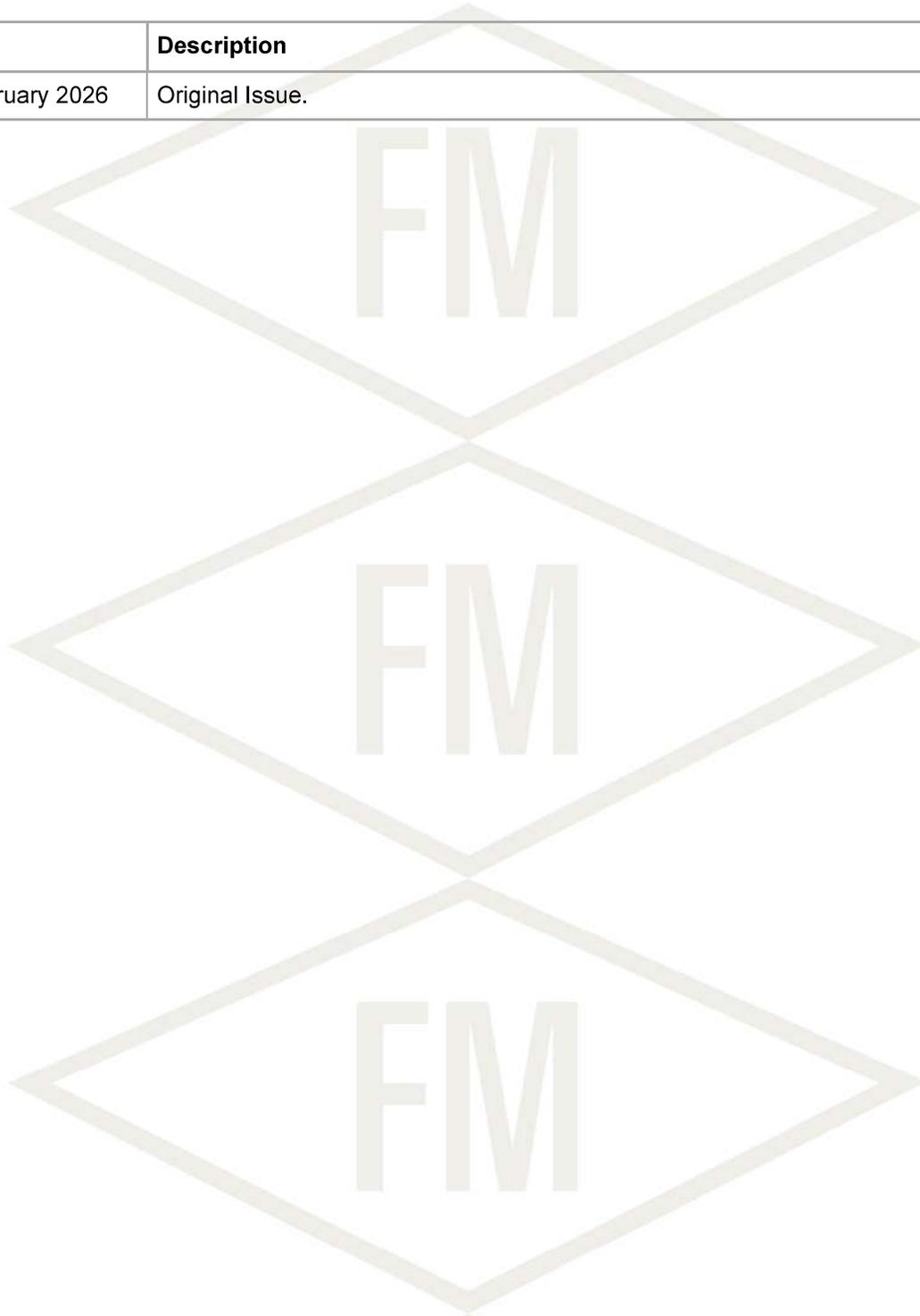
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Details of the supplements to this certificate are described below:

Date	Description
17 February 2026	Original Issue.



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