CERTIFICATE OF CONFORMITY

FM Approvals

1. **FIRE PROTECTION EQUIPMENT**

2. **Certificate No:** **FM25CA0077**

3. **Equipment:**
   (Type Reference and Name) **C Model Optect LR16 – Ultra-long range triple IR flame detector**

4. **Name of Listing Company:** **Optect Ltd**

5. **Address of Listing Company:** **Unit 1A Artisans Yard, Claude Avenue, Bath, BA2 1AF, United Kingdoom**

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

   PR466046 dated 27th July 2026

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

   ULC/ORD-C386:2015

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, Fire Detection, Flame-Actuated

Certificate issued by:

J.E. Marquedant

J.E. Marquedant
VP, Manager - Electrical Systems

07/27/2026

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. 1165 Boston-Providence Turnpike, Norwood, MA 02062 USA
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10. **Description of Equipment:**

Model Optect LR16 – Ultra-long range triple IR flame detector

Spectrum Response	Triple IR flame detection using two IR3 modules: one long-range narrow FOV module and one standard wider-FOV module
Fuels tested	N-heptane, Methylated spirits
Field of View	Main FOV: 16° both vertical and horizontal. Auxiliary FOV: 90° both vertical and horizontal
Sensitivity Settings	Very Low, Low, Medium, High
Response Characteristics	Detects a 0.1 m^2 n-heptane pan fire at 500 m (main detection); auxiliary detection at 80 m Response times: Typical: 6-11 seconds Max: 30 seconds
Built-in-Test	Periodic self-test including window cleanliness and detector operation
Humidity	Up to 95% RH, non-condensing
Temperature range	-40°C to +80°C
Power Consumption	Minimum 1.6 W (no heater, no LEDs), Maximum 5.5 W (with heater on highest setting)
Supply Voltage	10–30 VDC (typ. 12–24 VDC)
Outputs	3 configurable Relays rated 1A at 30 V DC (30 W) 0–20 mA (stepped): < 4 mA - interface off 4 mA - normal operation 16 mA - trouble 20 mA - alarm RS485/RS422 Modbus;
Enclosure	IP68, 3 m for 72 hours Aluminum Powder Coated, Anodized.
Mounting	Aluminum anodized
Dimensions	9.2 x 4.7 x 3.9 in (23.3 x 12.0 x 9.9 cm)

Weight	1.85 kg (without bracket), 2.35 kg (with bracket)

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

    This Certificate has been issued in accordance with FM Approvals Canadian 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:

Date	Description
27 July 2026	Original Issue. reference PR466046

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