

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2809 - CPR – E0045

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

LR16 Ultra-Long Range Fire Detector

Models: See Appendix

Scope of certificate: LR16 Long Range Fire Detector – Point Detectors

For fire detection and fire alarm systems for buildings

Sensitivities: Very Low, Low, Medium & High sensitivity settings meet Class 1

placed on the market under the name or trade mark of

Optect Ltd
Unit 1A Artisans Yard
Claude Avenue
Bath BA2 1AF
United Kingdom

and produced in the manufacturing plant

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Unit 1A Artisans Yard
Claude Avenue
Bath BA2 1AF
United Kingdom

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN54-10:2002 +A1:2005

Flame Detectors – Point Detectors

under system 1 for the performances set out in this certificate (See approval report PR466046 dated 27 July 2026) are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction products

This certificate was first issued on 31 July 2026 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

 FM Approvals

Issue 1, Dublin, dated 31 July 2026

Richard Zammit, Certification Manager
On behalf of FM Approvals Europe Limited
(PR466046)

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F CPR 028 (July/2024)

This certificate remains the property of FM Approvals and has been issued in accordance with FM Approvals CPR Certification Scheme.



APPENDIX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

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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 & Class Ratings	Very Low – Class I, Low – Class I, Medium – Class I, High – Class I
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)

INITIAL TYPE TEST RESULTS BY NOTIFIED BODY:

Classification & applicable standard	Assigned rating
EN 54-10:2002 + A1:2005	Meets all requirements of Annex ZA