



Member of the FM Global Group

FM Approvals Ltd

Voyager Place, Maidenhead,
Berkshire, SL6 2PJ. United Kingdom
Email: cpr@fmaprovals.com Web: www.fmaprovals.com

CERTIFICATE OF CONSTANCY OF PERFORMANCE

1725 - CPR – E1002

In compliance with Statutory Instruments 2019 No. 465, The Construction Products (Amendment etc.) (EU Exit) Regulations 2019, this certificate applies to the construction product

FL500

placed on the market under the name or trade mark of
General Monitors Inc.

An MSA Company
16782 Von Karman Ave. Unit 14
Irvine, CA. 92606 USA

and produced in the manufacturing plant(s)

MSA-The Safety Company

1000 Cranberry Woods Drive
Cranberry, PA 16066 USA

General Monitors Ireland

Ballybrit Business Park
Galway, Ireland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in:

EN 54-10:2002 +A1:2005 – Flame Detectors – Point Detectors

under system 1 for the performances set out in this certificate (see approval report PR449305 for details) are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product(s)

This certificate was first issued on 3rd February 2022 and will remain valid as long as neither the above standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the approved factory production control certification body.

Issue 02, Maidenhead, dated 9th October 2023

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F UKCP 030 (Jan/2021)

Victor Aluko-Oginni, Certification Manager
On behalf of FM Approvals Ltd
(PR449305, RR227666, RR238424)



0259

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



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APPENDIX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

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FL500

The FL500 ultraviolet/infrared (UV/IR) Flame Detector is Certified for use:

Class 1 = high sensitivity

Class 3 = Medium sensitivity

Operating Voltage: 24Vdc [20 to 36Vdc]

Current draw: 200mA max. [typical: 80 – 150mA]

Dry contact Form C SPDT relay outputs: 30Vdc, 5A resistive max.

Operating temperature and humidity range is -55°C to +85°C (-67°F to +185°F), 0-95%RH

4-20mA Outputs: 4mA – ready, 0mA - Fault, 2mA – COPM Fault, 8mA – IR only, 12mA – UV only, 16mA – Alarm Low, 20mA – Alarm High

Compatible FM Approved control panel for alarm and trouble reporting.

Sensitivity settings: High, Medium, Low

FL500 Flame Simulator: not FM Approvals examined

Firmware version 0

Detection times on axis at high sensitivity:

<i>Fuel</i>	<i>Distance (feet)</i>	<i>Response Time (s)</i>
n-Heptane	90	6
	60	2.7
Methanol	40	12
Methane	80	9.9
Propane	60	6.5
Butane	55	5.5
Ethane	60	2.1

Detection Distance and false alarm stimuli: see FL500 Safety and Technical Manual, 10193213/00

Field of view [$\alpha \pm$] 50°

Field of view [$\beta \pm$] 360°



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INITIAL TYPE TEST RESULTS BY APPROVED BODY:

Classification & applicable standard	EN 54-10:2002 +A1:2005
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