



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3807	25-May-2023	Number 2	Issue date 6-Jun-2023	30-Apr-2024

Product designation

Signaline, FT-EN Series, non-resettable linear heat detector

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

LGM Products Ltd
Unit 3, Quantum Business Park, Beacon Hill Road, FLEET, UNITED KINGDOM, GU52 8DY

Registrant

LGM Products Ltd
Unit 3, Quantum Business Park, Beacon Hill Road, FLEET, UNITED KINGDOM, GU52 8DY

Conformance criteria and evaluation

The Signaline, FT-EN Series, non-resettable linear heat detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

- EN 54-28:2016, 'Fire detection and fire alarm system - Part 28: Non-resettable line-type heat detectors'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kaj Loh
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The Signaline, FT-EN Series, non-resettable linear heat detector uses fixed temperature detection technology to provide a method for sensing increases in temperature. The Signaline, FT-EN Series, non-resettable linear heat detector can offer an alternate overheat protection in a range of applications and environments.

The Signaline, FT-EN Series, non-resettable linear heat detector is used in conjunction with the Signaline LocatorPlus-EN Sensor Control unit and the Signaline FT-EOL-EN End-of-line unit. The Signaline LocatorPlus-EN Sensor Control unit monitors up-to two zones of the Signaline, FT-EN Series, non-resettable linear heat detector and has separate fault and alarm outputs for each zone.

The Signaline LocatorPlus-EN Sensor Control unit can be connected to a conventional fire alarm panel or to an addressable system using compatible I/O, zone or switch monitor module.

The Signaline LocatorPlus-EN Sensor Control unit has a built-in display which shows the state of each zone, including the distance to the alarm point, if an alarm is triggered. An RS-485 Modbus RTU/ASCII output is available for integrate with a PLC or SCADA system. At the rated operating temperature, the detector's heat sensitive polymer insulation yields to the pressure upon it, permitting the inner conductors to move into contact with each other. This action takes place at the first heated point anywhere along the Detector's length. It does not require that any specified length be heated in order to initiate an alarm.

This product is a fixed temperature sensor and is therefore capable of initiating an alarm at any point along its length, once the rated actuation temperature is reached

Technical specification

The following details are a representative extract of the technical specification for the Signaline, FT-EN Series, non-resettable linear heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Description
Type	Ident.	
Model	FT-78-EN	Signaline FT-78-EN non-resettable linear heat detector
	FT-88-EN	Signaline FT-88-EN non-resettable linear heat detector

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Model	Description
Signaline LocatorPlus-EN Sensor Control unit	Siganline LocatorPlus alarm location and interface module
Signaline FT-EOL-EN End-of-line unit	End of line module with test facility

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

	FT-78-EN	FT-88-EN
Performance Type	T078-V10-A045	T088-V10-A045
EN54-28 Environmental	II	
Nominal Activation	78 °C	88 °C
Minimum Alarm Temperature	70.2 °C	79.2 °C
Maximum Alarm Temperature	85.8 °C	96.8 °C
Maximum Ambient	45 °C	65 °C
Minimum Ambient	-40 °C	
Humidity	0% to 98% RH	
Colour	Red	White
Capacitance per m	<100 pF	
Inductance per m	<3.2 µH	
Resistance per m	Approx 2.5 ohms	
Diameter	5.72 mm ± 0.12 mm	
Minimum bend radius	100 mm	

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Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	CSBA0041/R2	Verification of conformity of the Signaline FT-EN Series, Non-resettable Linear Heat Detector to the requirements of EN 54-28:2016	6-Jun-2023	CSIRO Fire Systems Laboratory, AU
Manual	Signaline-FT-EN- Manual-1.0.pdf	SIGNALINE HEAT Signaline FT-EN Linear Heat Detection Cables EN54-25:2016 Approved Line Type Heat Detection Installation Manual (Signaline-FT-EN-Manual-1.0 (3).pdf)	24-Nov-2022	LGM Products Ltd, UK
	Signaline-FT-EOL- EN-Manual- 1.0.pdf	SIGNALINE HEAT FT-EOL-EN Installation Manual (Signaline-FT-EOL-EN-Manual-1.0.pdf)	24-Nov-2022	