LGM PRODUCTS

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SIGNALINE

Linear detection solution

Product Brochure

SIGNALINE HEAT

SIGNALINE WATER

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About Us

Signaline is a comprehensive range of linear detection systems providing solutions for fire and water leak detection.

Our linear detectors are 100% manufactured in the UK and have a wide range of third party approvals from both international organisations and local bodies, testifying to the high quality of the products.

Our detectors are sold in 50m increments, sized to suit the needs of each individual customer.

Certification

LGM Products is proud to be a market leader in customer service. Our third party approved quality assurance systems gives our customers the confidence they need in a reliable and active supplier.

Check our website to download a copy of our ISO9001:2015 quality assurance certificate.

Signaline also carries VdS Approval for the Signaline HD SKM-03 and Signaline HD SKM-95 analogue linear heat detection.

Signaline FT cable is UL and FM approved.

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Signaline Project List

Project	Product	Customer	Country
Floating roof tank	Signaline FT-105-R	PTT PLC	Australia
Silicon conveyor	Signaline FT-105-R	Simcoa	Australia
Meat Smoker rooms	Signaline FT-68	Hochreiter Fleischwaren	Austria
Mongola Power station	Signaline FT-88-R	Petromax Refinery LTD.	Bangladesh
Ülemiste Junction Road Tunnel,	Signaline FT-68	Ulemiste CC	Estonia
Farm Building Protection	Signaline FT-68	Undisclosed	Estonia
Data Server Centre	Signaline HD	Google	Finland
BMW Parkhaus, Germany	Signaline HD	BMW Group	Germany
Sixt Garden Office Pullach	Signaline HD	Sixt AG	Germany
Residence Car Park	Signaline HD	Wohnanlage mit TG	Germany
Schwabing Premier Parking	Signaline HD	Wohnanlage mit TG	Germany
Nora Gas Tank Farm, Ireland	Signaline FT-68-R	Balfour Beatty	Ireland
Luxembourg Int. Airport	Signaline HD	Tief Garage Parkhaus	Luxembourg
Extinguishing CAF	Signaline FT-88-R	BlusDirect	Netherlands
Livestock Stables	Signaline FT-68	Undisclosed	Netherlands
Floating Roof Tank	Signaline FT-105-R	Undisclosed	Netherlands
Mogas Tank, Qatar	Signaline FT-105	Qatar Petroleum	Qatar
Poze Magazii Port	Signaline FT-88-R	S.C TRN Sig Expert S.R.L	Romania
Electric substations	Signaline FT-88	Petrom OMV	Romania
Pancevo Refinery Tank Farm	Signaline FT-105-R	Siemens D.o.o	Serbia
US Army Barracks, Singapore	Signaline FT	US Army	Singapore
Wooden Building Protection	Signaline FT68 & FT88	Undisclosed	Sweden
Criminal Record Facility	Signaline FT-68	Criminal Records Bureau	Dubai, UAE
Trafalgar Road Car Park	Signaline FT-68	Brighton City Council	UK
Millennium Square Car Park	Signaline HD	Bristol City Council	UK
Cottam Hill Power Station	Signaline FT-68	EDF Energy	UK
Hackney London Borough Carparks	Signaline HD	Hackney Borough Council	UK
Paper mill	Signaline FT-88	Ironmountain	UK
Heathrow Terminal 3	Signaline HD	Kone PLC.	UK
Heathrow Terminal 5	Signaline HD-S	Kone PLC.	UK
SHS Security	Signaline FT-88-R	Octagon LTD.	UK

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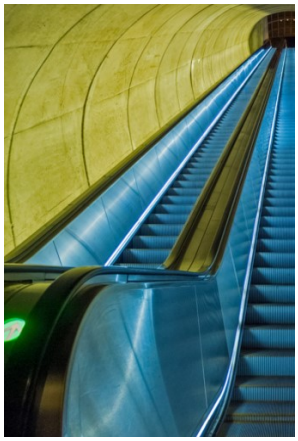
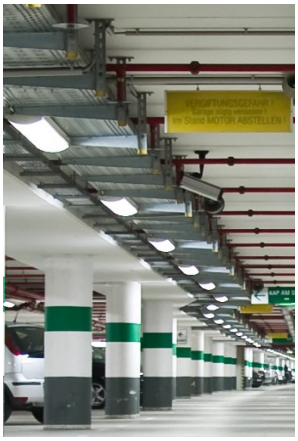
HEAT
SIGNALINE

A versatile heat detection solution with large coverage and a small profile. Signaline HEAT carries international approvals and is ideal for various industrial and commercial buildings.





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Signaline HD

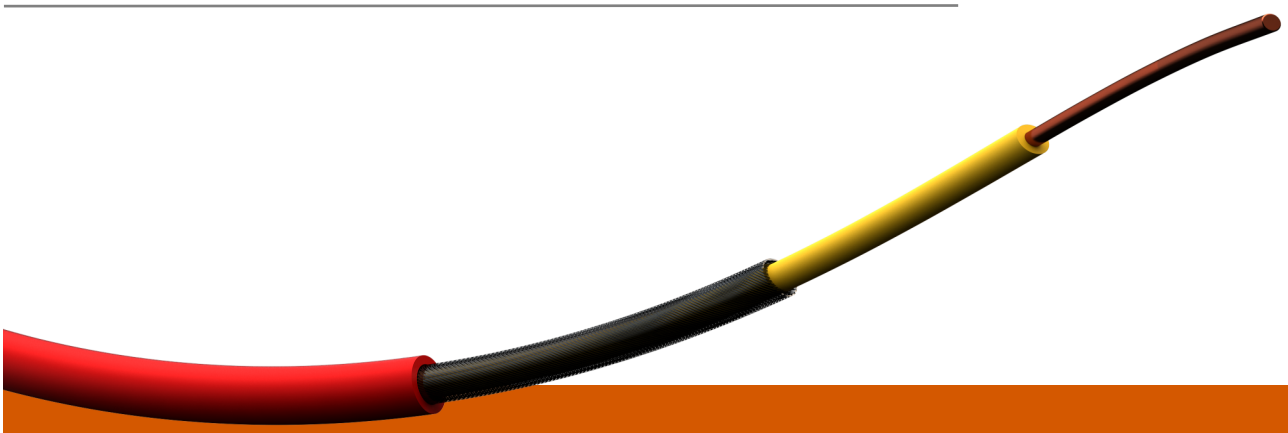
WHAT IS HD?

Signaline HD is an analogue resettable linear heat detector that monitors significant increases in temperature.

An electronic controller connected to the cable monitors the condition of the cable to sense any change in temperature by continually measuring the electrical resistance between the metallic core and screen. If the change in temperature is sufficient the controller creates an alarm.

KEY POINTS

- EN54-5 approved
- Sold in 50m increments, up to 500m per reel
- Zero maintenance
- Weather-proof heat detector
- Fully resettable
- Addressable and conventional controllers available
- No setup or programming required
- Intrinsically safe when integrated with a barrier
- Up to 300m in a single zone



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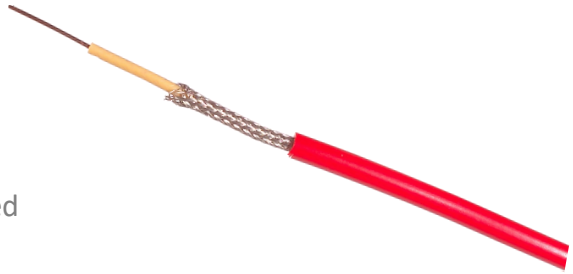
Signaline HD

ANALOGUE HEAT DETECTION

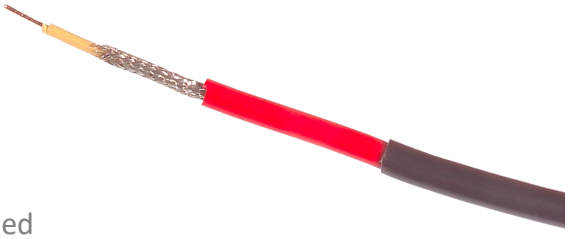
Signaline HD

- PVC outer coat
- Reports fire upon a change in resistance
- Provides class C response (EN54 approved)
- Resettable once cool. No need to replace unless damaged



Signaline HD-R

- Signaline HD with protective nylon coating
- Resistant to oils, corrosive chemicals/gasses and high UV levels
- Provides class C response (EN54 approved)
- Resettable once cool. No need to replace unless damaged



Signaline HD-S

- Signaline HD with a braided stainless steel sleeve
- High mechanical protection
- Helps prevent expensive maintenance/repair costs
- Resettable once cool. No need to replace unless damaged

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Signaline HD

CONTROLLERS

All Signaline HD Linear Heat Detectors (Signaline HD) must be used with a controller.

Signaline HD Controllers provide early warning of an impending fire by detecting overheating in cable ducts, road tunnels, escalators, car parks, lift shafts, conveyer belts and similar difficult to monitor environments.

The system uses Signaline HD Linear Heat Detector and a Signaline HD Controller plus a Signaline End of Line Unit. Signaline HD Controllers are very simple and easy to use.

All Signaline controllers are delivered complete with End of Line.

HD-SKM-03

- Conventional controller
- The SKM measures the condition of the cable. (normal, open circuit, short circuit, fire)
- Equipped with volt free fire & fault relays that are connected to the fire control panel

HD-SKM-95

- Addressable loop-powered controller
- The SKM measures the condition of the cable. (normal, open circuit, short circuit, fire)

- **IP65 rated**
- **EN54 part 5, class-C approved**
- **Monitors up to 300m of cable**
- **Economical and simple to operate**

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Signaline HD

ACCESSORIES

EOL

- Standard End of Line device for use with Signaline HD
- Included with purchase of Signaline controllers
- IP66 enclosure

UCB

- Can be used as an end of line enclosure, junction box or an interposing line unit
- Supplied with appropriately sized cable glands, terminal block and 470, 680 ohm resistors
- IP66 enclosure

K Clip

- Designed specifically for Signaline HD
- No wall plug or screw needed
- 6mm dia. knock-in spigot
- Cable stands off wall by 4.5mm
- More clips available on pages 12-13

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Signaline FT

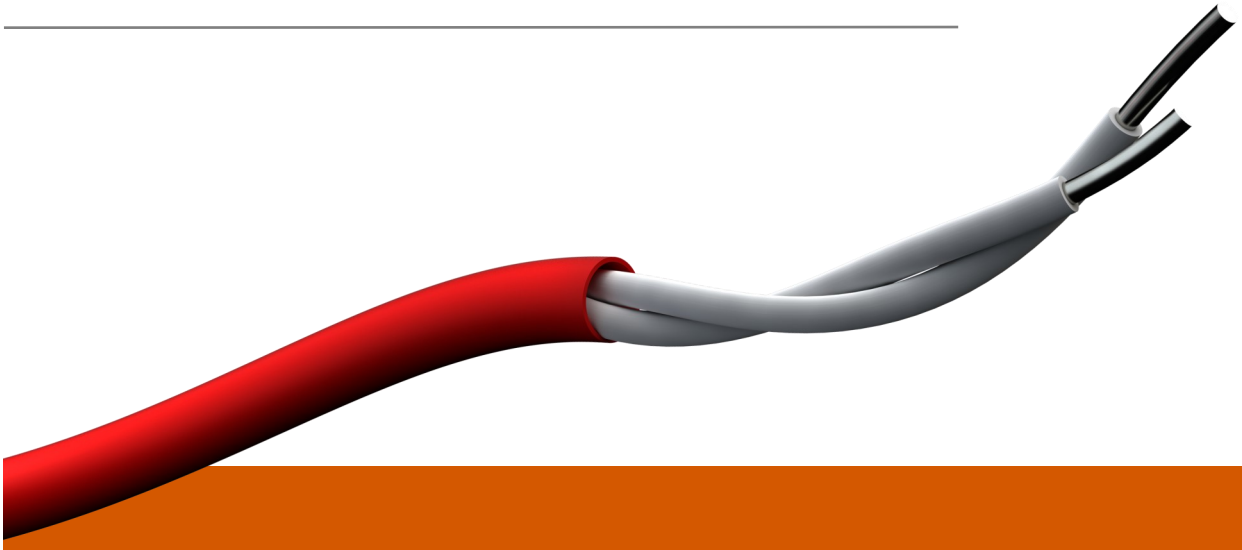
WHAT IS FT?

Signaline Fixed Temperature Linear Heat Detector (Signaline FT) detects a build up of heat anywhere along its length. When any point along the length of the cable reaches a predetermined temperature an alarm is initiated.

Signaline FT is available in four different temperature settings and two outer cover options making the Signaline FT suitable for use in a very wide range of applications.

KEY POINTS

- UL, cUL and FM Approved
- PVC or nylon outer coating as standard
- Four alarm temperatures to choose from
- Easy to install
- Large zone lengths
- Range includes optional alarm locator
- Maintenance free
- No false alarms



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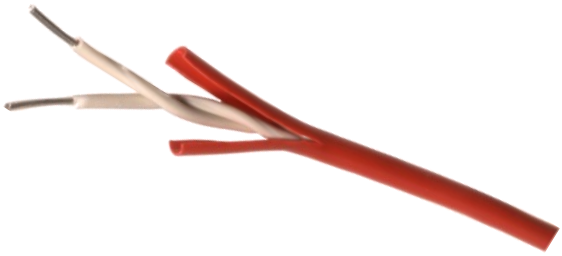
Signaline FT

FIXED TEMPERATURE CABLE

Signaline FT-68

- 68°c pre-set alarm temperature
- cUL, UL and FM approved
- PVC coat
- Simple installation & cost-effective



Signaline FT-68-R

- 68°c pre-set alarm temperature
- cUL and UL approved
- Resistant to oils, corrosive chemicals/gasses and high UV levels
- Nylon outer sheath

Signaline FT-88

- 88°c pre-set alarm temperature
- cUL, UL and FM approved
- PVC coat
- Simple installation & cost-effective

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Signaline FT

FIXED TEMPERATURE CABLE

Signaline FT-88-R

- 88°c pre-set alarm temperature
- cUL, UL and FM approved
- Resistant to oils, corrosive chemicals/gasses and high UV levels
- Nylon outer sheath

Signaline FT-105

- 105°c pre-set alarm temperature
- cUL, UL and FM approved
- White PVC outer sheath

Signaline FT-105-R

- 105°c pre-set alarm temperature
- cUL and UL approved
- Resistant to oils, corrosive chemicals/gasses and high UV levels
- Nylon outer sheath

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Signaline FT

FIXED TEMPERATURE CABLE

Signaline FT-185-R

- 185°c pre-set alarm temperature
- cUL and UL approved
- Resistant to oils, corrosive chemicals/gasses and high UV levels
- Designed to withstand very high ambient temperatures

Signaline FT-230-X

- 230°c pre-set alarm temperature
- UL approved
- Resistant to oils, corrosive chemicals/gasses and high UV levels
- Can withstand an ambient temperature of 180°c

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Signaline LocatorPlus

The Signaline LocatorPlus is a dual zone module for monitoring up to two zones of Signaline FT or FT-R Digital Linear Heat Detection Cable. If an overheat/fire situation triggers either zone of the cable, this unit automatically calculates and displays the distance along the cable, in feet and metres, to the alarm point.

The two zones can operate independently of each other, or in interlocking mode. A separate alarm and normally conducting fault output are provided for each zone. Signaline LocatorPlus will operate with any conventional or addressable fire alarm control panel.

- IP65 rated
- UL certified
- Suitable for all FT cable
- Backlit LCD display
- Two zones of Signaline FT or FT-R cable
- Detects alarm point from 100 to 3000 meters per zone
- Independent or Interlocking mode
- RS-485 MODBUS RTU output
- Power, Fault and Alarm LED indication
- Integrated alarm buzzer

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Signaline Heat
ACCESSORIES

NOTE: For UK installations, plastic clips (A/T/K) may not be placed on walls or the underside of ceilings in escape routes (Amendment 3, BS 7671: 2008. 17th Edition)

T Clip

- Polypropylene plastic moulding with slot for cable
- Can be combined with a tie wrap to secure cable to the clip
- Can be fixed to surface with screw or percussion pin
- Sold as clip only. Fixing screw and tie wrap not included

A Clip

- Nylon clip with M6 fixing holes
- Ideal where heat transfer from the fixing point to the cable must be minimized

P Clip

- Made of stainless steel
- Highly resistant to oils and greases
- Wide temperature tolerance

UV and ozone resistant cushion insulator

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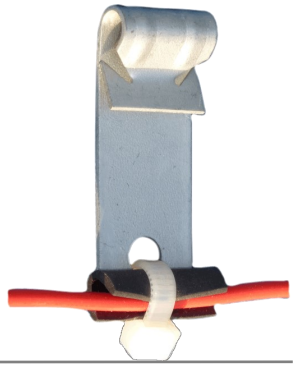
Signaline Heat
ACCESSORIES

Edge Clip

- Designed to attach to steelwork with 3-8mm thickness. Other thicknesses available if required
- Made of steel with a zinc finish
- Cable attaches to clip with the supplied neoprene sleeve and cable tie

J Clip



- Designed to attach to steelwork with 4-6.8mm thickness
- Made of steel with a zinc finish
- Cable attaches to clip with the supplied neoprene sleeve and cable tie

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Signaline Heat

ACCESSORIES

Signaline Retractable Cable

- A multi-core extending cable. Oil, grease and chemical resistant
- Perfect for floating roof petro-chem storage tanks
- Designed to connect Signaline cable fitted to the circumference of a tank with an EOL device at the roof of the tank
- Low cost solution made to direct specification

Auto Cable Collector

- Turnbuckle with 24m extending retractable cable
- Designed to connect Signaline cable fitted to the circumference of a tank with an EOL device at the roof of the tank
- Fitted Ex junction box

UCB

- Can be used as an end of line enclosure, junction box or an interposing line unit
- Supplied with appropriately sized cable glands, terminal block, 470 and 680 ohm resistors
- IP66 enclosure

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Signaline Heat

ACCESSORIES

Signaline EX UCB

- Can be used as an ATEX approved end of line enclosure, junction box or interposing line unit
- Supplied with cable glands, terminal block and 470 & 680 ohm resistors.
- Can interconnect, terminate and join lengths of any Signaline cable

MTL 5561

- Loop-powered 2–channel interface for use with conventional fire and smoke detectors located in hazardous areas
- ATEX approved
- Reverse input polarity protection
- "No-fail" earth fault protection

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Signaline WATER detection cable can be used to protect critical applications where equipment might be vulnerable to water ingress. Early detection of water can reduce or prevent costly downtime.

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Signaline Water

WHAT IS WD?

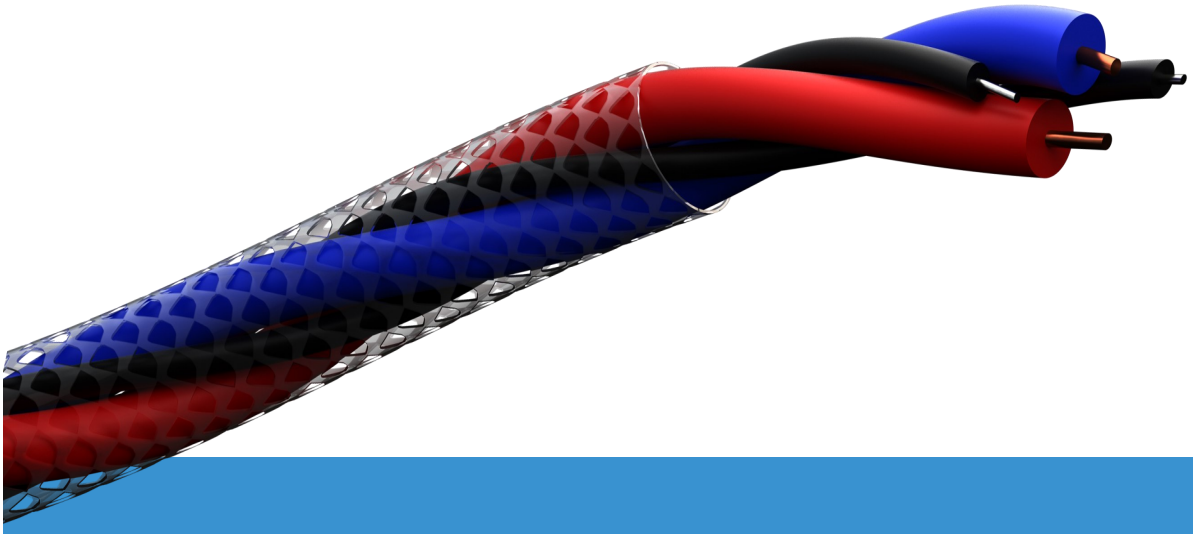
Signaline WATER detection cable can be used to protect critical applications where equipment might be vulnerable to water ingress. It can be installed with up to 1km of cable per module.

The flexible but tough detection cable acts as a sensor along its entire length. Contact with water causes a short-circuit and sends the panel into alarm.

Applications include data centres, server rooms, document stores and machinery.

KEY POINTS

- 3.75, 7.5, 15, 30 and 100m lengths available
- Unique 4-core twisted cable (2x monitoring, 2x water sensitive)
- Protective nylon fishnet braid allows the sensing cable to remain protected while exposed to potential water
- The monitor can connect to a panel, BMS or other management system
- No programming required
- Plug and play setup
- Made in the UK



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Signaline Water

WATER SENSING CABLE

Signaline WD

- Water detection cable
- Unique 4-core twisted cable with a nylon fishnet braid
- Available in 3.75m, 7.5m, 15m, 30m & 100m lengths
- Pre-fitted connectors and hard wearing cable

Signaline WDM-KM

- Monitors water detection cable
- Allows for termination of power, alarm and fault connections
- Completely sealed. Protected from water damage

Signaline Water Detection Control Panel

- Provides a fully monitored detection solution
- 2 and 4 zone versions available
- One-man walk test mode
- 2x monitored sounder circuits

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Signaline Water

ACCESSORIES

WIB Interposing Box

- Interfaces the Signaline WDM-KM with a water control panel
- One WIB is required per zone
- Compatible with Apollo XP95 and Hochiki ESP systems
- IP66 rated enclosure

Water Lead-in Cable

- Allows for a panel to be placed away from the detection zone
- Fitted with connectors to allow for instant tool-free installation

Nylon P Clip

- Made of flame-retardant nylon 66
- Resistant to chemical corrosion and UV light
- Small profile
- Low heat transfer

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