SIGNALINE

LINEAR DETECTION SOLUTIONS
Product Brochure

atp

*Your people,
your assets,
protected.*

Signaline Linear Heat Detectors are the ideal solution for fire detection in the following environments:

Road Tunnels

Cable Trays

Escalators

Farm Buildings

Car Parks

Conveyor Belts

Kitchens

Tank Farms

Signaline FT-EN
Linear Heat Detection

Signaline FT-EN, approved to EN54 part 28, is a fixed temperature Linear Heat Detector cable. Fixed Temperature Linear Heat Detectors detect a build-up of heat anywhere along their length. When any point along the length of the cable reaches a predetermined temperature an alarm is initiated.

Signaline FT-EN cables are ROHS compliant, Low Smoke Zero Halogen (LSZH) and have a UV stable and chemical resistant coating

meaning they can be used in even the harshest of environments.

The Signaline LocatorPlus-EN Linear Heat Detection controller monitors two zones of Signaline FT-EN with up to 1000m per zone. The Signaline LocatorPLus-EN comes in an IP65 rated enclosure allowing for field mounting. As well as fire and fault outputs, it can also be connected directly to building management systems via the MODBUS connection.

To complete the installation the EN54 part 28 approval also includes the Signaline FT-EOL-EN. This end of line box can terminate two zones of cable and provides alarm and fault test switches to ensure your installation is fully operational.

With a list of features as long as its alarm zone, why wouldn't you choose Signaline FT-EN?

Key points

* ActivFire approved in the Australian market
* Up to 1km per detection zone
* UV and Chemically Protected
* Compatible with Addressable and Conventional fire detection systems
* Easy set up with no special programming or tools
* Exact alarm location identification
* Zero on-going maintenance

Signaline LocatorPlus-EN
Linear Heat Detection Controller and Alarm Locator

The Signaline LocatorPlus-EN is a dual zone monitor module for the Signaline FT-EN cables. With each zone able to monitor 1000m of cable, a single unit can cover a vast detection area.

Signaline LocatorPlus-EN is simple and quick to set up and requires no specialist software

or programming tools. There are two operating modes allowing the zones to operate independently or interlocking. In the event of an alarm the Signaline LocatorPlus-EN immediately displays the alarm location and zone of the activation. This enables quick and efficient alarm notification.

* IP65
* ActivFire approved
* ModBus Output
* LCD display
* LED alarm and fault indication
* Easy set up
* Low Power consumption

Signaline FT-EN
Linear Heat Detector

Signaline FT-EN is approved by UL EU to EN54 part 28 as non-resettable Line Type Heat Detector. It is Low Smoke Zero Halogen (LSZH) and is available in either FT-68-EN, FT-78-EN or FT-88-EN alarm temperatures.

The cable's outer coating is made from a UV and chemical resistant compound making the cable suitable for even the harshest of environments.

Signaline FT-EN is used with the Signaline LocatorPlus-EN and FT-EOL-EN to make a complete EN54 part 28 approved system.

Signaline FT-78-EN

- 78°C Alarm Temperature
- 1000m zone length
- LSZH linear heat detector cable
- Exact alarm location
- Available in optional stainless steel braid
- Available with catenary wire for speedy installation

Signaline FT-68-EN

NEW

- 68°C Alarm Temperature
- 1000m zone length
- LSZH linear heat detector cable
- Exact alarm location
- Available in optional stainless steel braid
- Available with catenary wire for speedy installation

Signaline FT-88-EN

- 88°C Alarm Temperature
- 1000m zone length
- LSZH linear heat detector cable
- Exact alarm location
- Available in optional stainless steel braid
- Available with catenary wire for speedy installation

Signaline FT-EOL-EN
Linear Heat Detector End of Line Unit

The Signaline FT-EOL-EN End-of-Line Unit has been approved to EN54 part 28 for use with the LocatorPlus-EN and FT-68-EN, FT-78-EN or FT-88-EN Signaline Linear Heat Detection cables.

It is designed to effectively terminate up to two zones of FT-68-EN, FT-78-EN or FT-88-EN cable in a secure, weatherproof enclosure.
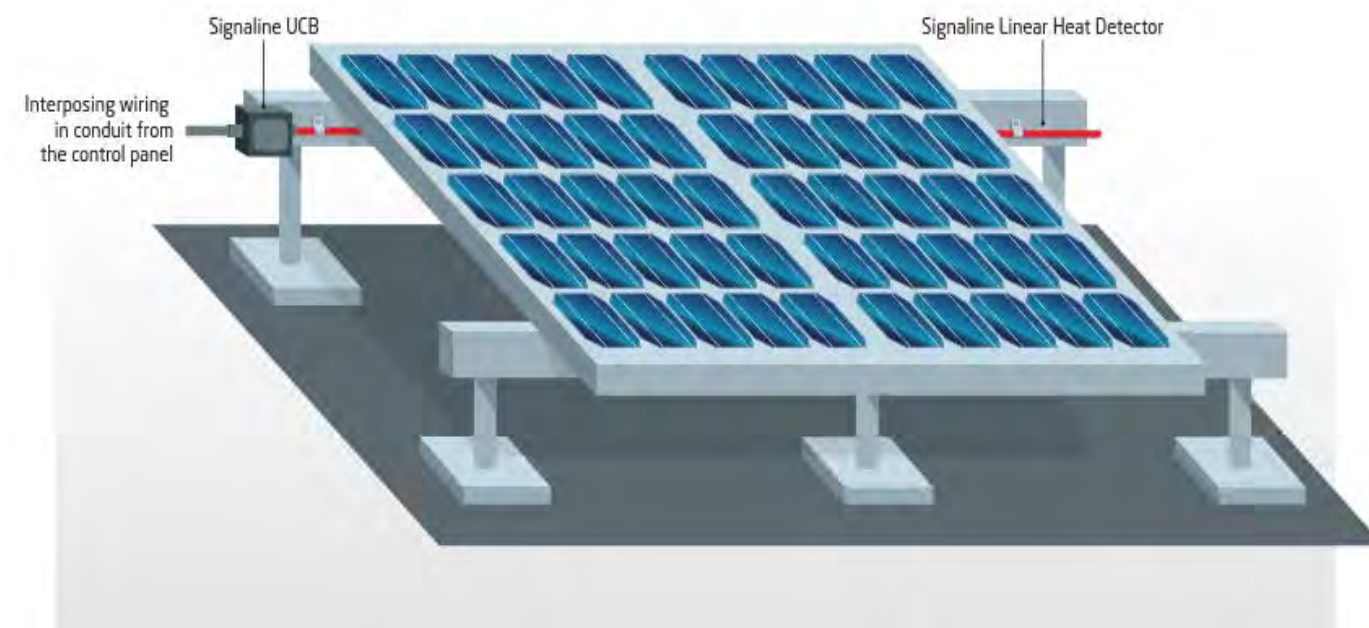
To help reduce installation cost the Signaline FT-EOL-EN can terminate two zones in a single unit. Furthermore, the built-in switches for testing a fault or alarm condition allow the integrity of the whole system to be functionally checked in situ, providing comprehensive testing and maintenance of the system.
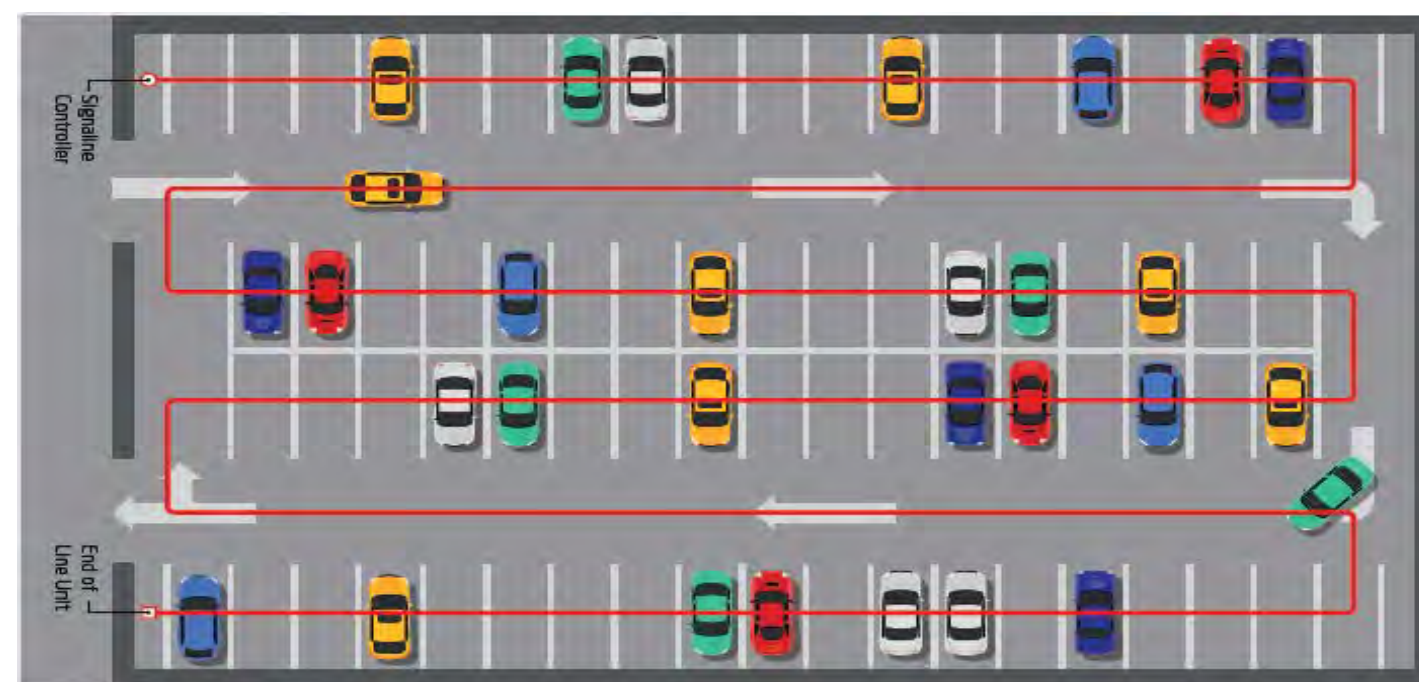
- IP66
- ActivFire approved
- Terminates two detection zones
- Built-in test and fault switches

Example Application - Solar Panels

Example Application - Car Park

Using Signaline Linear Heat Detectors in Hazardous Areas

Hazardous areas exist where a potentially explosive mix of air and flammable gasses, or air and dust, or air, dust and gasses may occur.

When installing any electrical equipment into the hazardous area you must ensure the products are safe for use and will not be an ignition source.

Signaline Linear Heat Detection is no exception to this. Signaline FT-EN and FT cables are a low cost and effective form of fire detection within hazardous areas. They are recognised as Simple Apparatus and therefore only require the protection of an intrinsically safe barrier to be made safe for use within the hazardous area.

For Signaline FT-EN we recommend the use of the MTL7761AC and for Signaline FT we recommend the use of MTL5561.

MTL5561
Galvanic Isolator

- Standard DIN rail mount
- Dual Channel Isolator

MTL7761AC
Zener Barrier

- Standard DIN rail mount
- Removable, colour-coded terminals

NEW

Signaline UCB

Junction Box and End of Line for Signaline Linear Heat Detection

The Signaline Universal Connector Box (Signaline UCB) can be used as an end of line enclosure or junction box. This all-in-one solution reduces on-site time and cost. It uses heat rated terminals and glands that can be used with any Signaline Linear Heat Detector.

- IP66
- Suitable for Hazardous area and Safe area
- Approvals: CE

CE

Universal Connector Box
Part no: Signaline UCB
Supplied By LGM Products
www.signaline.com

Signaline UCB-Ex

Ex Junction Box and End of Line for Signaline Linear Heat Detection

Signaline UCB-EX is a multi-purpose Ex Enclosure for Signaline FT-EN and FT. A Signaline UCB-Ex can be used as an end of line unit or junction box. It comes complete with cable glands, stoppers, terminal block and resistors meaning the product is suitable for any use on-site. Therefore reduces installation time and cost. The GRP enclosure ensures not only a very high IP rating but also excellent corrosion and UV resistance, making the Signaline UCB-Ex ideal for the harshest of areas.

- Suitable for Hazardous area
- Approvals: ATEX, CE, IECEx

Ex   IECEx   CE

PEPPERL+FUCHS, 68307, MANNHEIM, GERMANY
TYPE GL101 T-Y240534
MAX 275V   MAX   A   MAX 7.5W
Ex e IIC T6 Gb Ta 40°C to +40°C   Ex e IIC T5 Gb Ta 40°C to +50°C
Ex tb IIIC T80°C Db   Ex tb IIIC T90°C Db
                                     Terminals must be suitable for 120°C
Ex e IIC T4 Gb Ta 49°C to +60°C
Ex tb IIIC T100°C Db
Terminals must be suitable for 155°C   IECEx SIR 06.0106X
II 2 GD   Ex CE0102 IP66/67
SIRA99ATEX3200X   SERIAL NO. 6720/09/11/PL
WARNING DO NOT OPEN WHEN ENERGISED

Signaline Q Clip

Signaline Q Clip ensures the 20mm stand-off for the Linear Heat Detection from the ceiling required by EN54 part 28 and part 22.

This single piece clip removes the need for cable ties, reducing waste and significantly decreasing installation time on site.

The Q Clip uses a stainless steel 316L body with a EPDM liner. This provides excellent chemical and atmospheric resistance while ensuring that the cable is correctly cushioned witin the liner.

Signaline P Clip

Our Stainless Steel P Clip is made with 316 Stainless Steel. This steel is highly resistant to oils and greases and also has a wide temperature tolerance. The clip features a UV and ozone resistant cushion insulator. The Signaline P clip can be used with any Signaline Linear Heat Detector.

Signaline J Clip

The knock-on J Clip is suitable for the support of Signaline Linear Heat Detector cables from the outer edge of a conventional cable tray. The J Clip comes complete with the neoprene sleeve, to stop any direct heat transfer between the Signaline Linear Heat Detector and clip.

Signaline V Clip

The Signaline V Clip is a single piece of Stainless Steel offering the installer the highest corrosion resistance as well as strength in the supporting arms. The 'V' shape allows a cradle for the cable to sit in. This shape allows the cable to be suspended away from the ceiling allowing hot air to circulate around all sides of the cable. Sold in packs of 100pcs, the V Clip comes complete with neoprene sleeves to insulate the cable and stop any direct heat transfer between the Signaline Linear Heat Detector and clip.

The V Clip is compatible with all Signaline Linear Heat Detectors.

Signaline P Clip with L Bracket Extension

The Signaline P Clip with L Bracket is the ideal one-piece solution for fixing Signaline Linear Heat Detection to the outside of a tank rim seal. The single piece of Stainless Steel offers the installer the highest corrosion resistance as well as strength in the supporting arm. The single unit further reduces installation time and cost.