

 **ProReact Fixed Temperature Activation (EN)**
(Digital) Linear Heat Detection (LHD)



- ✓ The first digital linear heat detector system to be approved to European EN54 standards
- ✓ Designed for use in both indoor and outdoor installations
- ✓ Low smoke zero halogen material coating



EN54 Certified Fixed Activation Linear Heat Detection Cable

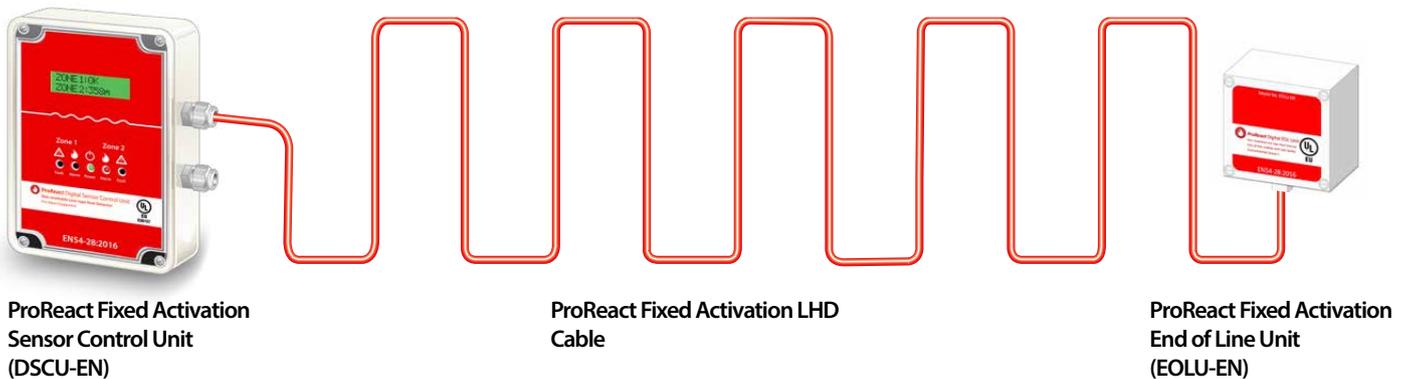
Given the growing importance of fire and life safety across the globe, it is essential that fire alarm and fire detection systems hold the required certifications within relevant jurisdictions. Thermocable is proud to announce the expansion of our ProReact Fixed Activation LHD range of solutions that have been developed specifically to meet the needs for Europe.

Adding a new 68°C cable to the product family, we now provide the broadest range of EN54-28:2016 accredited fixed activation (or digital) linear heat detection products on the market. The fire detection industry in Europe is strictly regulated by the European standards and all equipment used within the region must hold EN54 certification.

EN54-28:2016 Non-resettable line-type heat detectors were approved by CEN in December 2015 and specifies the requirements and performance criteria of non-resettable (or 'fixed activation') linear heat detection cable within Europe.

Thermocable developed and designed our ProReact Fixed Activation LHD system to meet this criterion and, in doing so, introduced the **first EN54-28:2016** certified linear heat detection system to Europe in 2016. Building on this further, we were delighted to introduce our new, lower-temperature activating cable to the range in 2023.

Certified System Design



ProReact Fixed Temperature Activation (EN) (Digital) Linear Heat Detection (LHD)

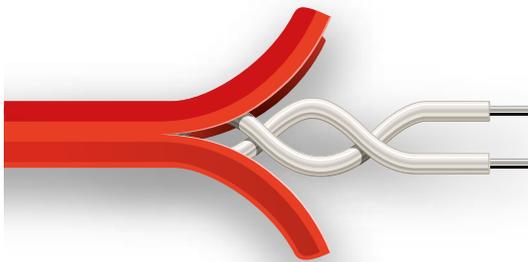


ProReact Fixed Activation LHD Cable

The ProReact Fixed Activation cable consists of a twisted pair of metal cores, sheathed in advanced temperature sensitive polymers. These polymers soften at a given temperature that brings the cores into contact and triggers an alarm.

Detector Action Temperatures

68°C (154°F) 78°C (172°F) 88°C (190°F)



ProReact Fixed Activation LHD Cable

ProReact Fixed Activation Control Unit (DSCU-EN)

Thermocable's ProReact Fixed Activation Sensor Control Unit (DSCU-EN) is an EN54 certified dual zone alarm point distance locating module that is compatible with the ProReact Fixed Activation LHD range of cables. It can monitor up to 2,000 metres (6,562 ft) across two zones of digital LHD cable. It contains the popular interlock detection mode from the ProReact Fixed Activation Interface Monitor Module (DiMM).



ProReact Fixed Activation Sensor Control Unit (DSCU-EN)

ProReact Fixed Activation End Of Line Unit (EOLU-EN)

Thermocable's ProReact Fixed Activation End Of Line unit with test facility has also been certified to **EN54-28:2016** and enables users to undertake hasslefree functional testing of the system. Users can verify normal conditions, trouble and alarm functions of a system by simulating a break in the cable or overheat condition.



ProReact Fixed Activation End of Line Unit (EOLU-EN)

Benefits

- Robust fire detection for dirty, dusty and hard to maintain areas
- Wide coverage - up to 1,000 metres (3,280 ft) of ProReact Fixed Activation LHD cable per zone
- Thermocable's ProReact Fixed Activation Control Unit (DSCU-EN) can monitor up to two zones of ProReact LHD cable
- Improved testing and maintenance functionality with Thermocable's ProReact Fixed Activation End Of Line Unit (EOLU-EN)
- Manufactured in the UK and short lead times ensuring quick delivery across Europe
- Thermocable provides the broadest range of EN54-28:2016 accredited fixed activation/digital linear heat detection products on the market

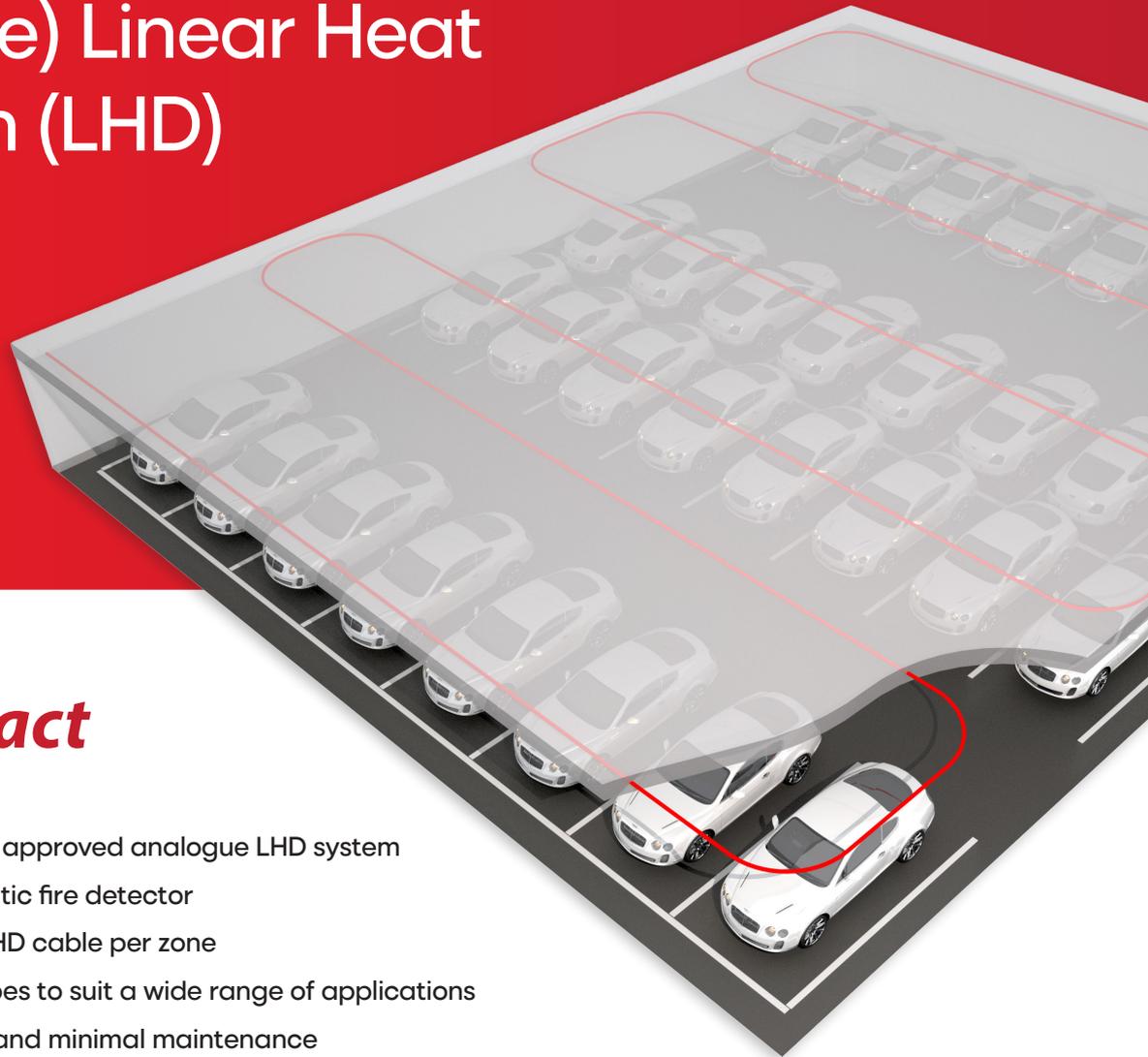
Typical Markets and Applications

- Car parks
- Oil and gas tank farms
- Mines
- Cable trays
- Cold storage
- Conveyor belts



Programmable Temperature Sensing

(Analogue) Linear Heat
Detection (LHD)



- EN54-22:2015+A1:2020 approved analogue LHD system
- UL listed heat-automatic fire detector
- Up to 500 metres of LHD cable per zone
- Three sensor cable types to suit a wide range of applications
- Low installation costs and minimal maintenance effort versus alternative technologies

Programmable (Analogue) Linear Heat Detection Cable



ProReact Programmable Temperature Sensing Composite Control Unit

EN54-22 Approved Programmable Temperature Sensing Linear Heat Detection System

Thermocable's high-quality ProReact Programmable Temperature Sensing LHD system meets the strict requirements of EN54-22:2015+A1:2020 as certified by VdS Global. It has been approved to Class A1I, A2I and B1 and as a result it can be used in wide range of environments.

Unaffected by dirt, dust, and damp, this system is a cost-effective, resettable, line-type heat detector that can be used in applications that are less suited to other types of fire detectors. Each approved system comprises of:

- ProReact Programmable Temperature Sensing Composite Control (PACC) Unit
- ProReact Programmable Temperature Sensing End-of-line Unit
- ProReact Programmable Temperature Sensing PVC Coated Sensor Cable or Nylon Coated Sensor Cable or PVC and Stainless Steel braided Sensor Cable
- ProReact Programmable Temperature Sensing Junction Box (Optional)

Each system can accommodate up to 500 metres of ProReact Sensor Cable, enabling a single system to provide suitable coverage over a wide area. Thermocable's ProReact Programmable Temperature Sensing Sensor Cable does not have to be replaced following an alarm, as long as the sensor cable is not subject to a temperature above its maximum recoverable temperature of 125°C.

Thermocable's ProReact Programmable Temperature Sensing LHD system compensates for ongoing changes in ambient temperature in order to reduce the likelihood of false alarms during operation, putting it at an advantage over other linear heat detectors. Its rate-of-rise activation feature also allows for a response to quicker escalations in temperature around the sensor cable.

Typical Installation of the ProReact Programmable Temperature Sensing LHD system



ProReact Programmable Temperature Sensing Composite Control Unit

ProReact Programmable Temperature Sensing End-of-line Unit

The ProReact Programmable Temperature Sensing End-of-line Unit is compulsory in all ProReact Programmable LHD systems as it has a key role in the operation of the technology, allowing the control unit to detect a short circuit or open circuit in the sensor cable. It is small in size and is straightforward to be mounted on surfaces.

ProReact Programmable Temperature Sensing End-of-line Unit



ProReact Programmable Temperature Sensing LHD Sensor Cable

Thermocable's Programmable Temperature Sensing Composite Control Unit detects variations in temperature which result in changes in resistance along the sensor cable. The sensor cable is a multi-core linear heat detector, available in three types: PVC coated, nylon coated or PVC coated with a stainless steel braid. Each type has unique properties enabling long term, reliable operation in a wide range of applications.

Up to 500 metres of ProReact Programmable Temperature Sensing cable can be installed in a single zone and standard reel lengths include 100m, 250m and 500m. The sensor cable must be used in conjunction with Thermocable's Programmable Temperature Sensing Composite Control Unit and ProReact Programmable Temperature Sensing End-of-line Unit.



ProReact Programmable Temperature Sensing Sensor Cables

ProReact Programmable Temperature Sensing Junction Box

Thermocable's ProReact Programmable Temperature Sensing Junction Box is an optional component that can be employed to connect different lengths of ProReact Programmable Temperature Sensing sensor cable together should it be required. Such instances could be if there is a desire to increase the total length of sensor cable within a zone or if a small section of sensor cable needs replacing following an activation.

ProReact Programmable Temperature Sensing Composite Control Unit

Thermocable's ProReact Programmable Temperature Sensing LHD system has a wide range of available alarm temperatures to suit different environments. All of which can be programmed on the LCD display on the Composite Control Unit or through a laptop connection.

Installers can also select pre-alarm temperatures through the control unit to receive an early notification of an unexpected rise in temperature before a chosen alarm temperature is reached.

Each Composite Control Unit comes with a Modbus RS-485 output and an inbuilt test feature as standard. More information relating to Thermocable's ProReact Programmable Temperature Sensing Composite Control Unit can be found in the product datasheet or installation manual, both of which are available on request.

Typical Markets and Applications

- Car parks
- Warehouses
- Cable trays
- Conveyor belts
- Oil and gas
- Energy
- Solar photovoltaic
- Infrastructure
- Industrial
- Factories & processing plants



Need assistance?

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About us

Founded in 1963 as a manufacturer of heating cables for the refrigeration and electric blanket markets, Thermocable has continued to innovate and develop, becoming the world leading manufacturer of linear detection cable and monitoring systems.

This transformation has been driven by our boundless desire to problem solve, as well as our fundamental company values, enabling us to supply to multi-disciplinary customers on a global scale.

Recognising our commitment to making the world a safer place, Thermocable was acquired by the renowned FTSE 100 plc, Halma,

in February 2023. As a global group of life-saving technology companies, Halma companies strive to grow a safer, cleaner and healthier future for everyone.

Operating within the Apollo Group, we continue to innovate in high quality, certified linear detection products, designed to raise the bar in the industry.

As an ISO 9001:2015 accredited, internationally qualified category solutions provider, Thermocable offers a vertically integrated lean approach through design, development and manufacturing, providing reassurance of a flexible and responsive approach to our customer needs.

Our accreditations

