

KIDDE

ALARMLINE

Linear Heat Detection System



LHD 4 Controller

POINT OF RISK MONITORING

Alarmline Linear Heat Detection (LHD) cable-based systems provide economical temperature monitoring at the precise point of risk. The system is reliable, flexible and has the ability to detect abnormal temperature variances before fire breaks out. Kidde Fire Protection's comprehensive LHD product portfolio allows a vast range of commercial and industrial fire and overheat risks to be protected, in ambient temperatures of -65 to +238°C.

APPLICATIONS

Cable tunnels

Cable tray installations at power stations, airport terminals and railway station complexes can be protected by the local installation of Alarmline sensor cables above and below traywork. Fire detection performance is unaffected by adverse environments and response times are potentially less than 10 seconds.

Floating roof tanks

The petrochemical industry requires that fires in these tanks caused by the ignition of combustible gases are extinguished in a short time frame. A rim seal Alarmline installation will provide enhanced detection of fire allowing an appropriate rapid extinguishing response.

Conveyors

Overheated bearings on conveyor belt support rollers can be rapidly detected. Additional Alarmline protection can be provided above and below the belt, against spillage and the transportation of ignited material.

Bulk storage

Alarmline "In-rack" protection at multiple levels ensures rapid fire detection. As part of a pre-action system, an advance warning of imminent sprinkler operation may avoid unnecessary water damage to stored goods.

Rail locomotives/rolling stock

The flexibility of linear heat detection is ideally suited to the protection of varied risks on rail locomotives and rolling stock. Typical examples are underfloor diesel engines, exhaust ducts and flexible couplings on passenger cars.

BENEFITS

- Detection at point of risk
- Continuous operation within the most adverse environmental conditions
- Combined cable and detector
- Electrical and mechanical flexibility
- Internationally proven in-service experience
- Integration with central fire control systems

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Vehicle engine bays

Alarmline protection of off-road vehicles such as quarry vehicles, mining vehicles and dump trucks has expanded onto on-road vehicles and marine leisure craft where similar fire hazards have been confirmed by insurers.

ALARMLINE PRODUCT RANGE

Alarmline Analogue

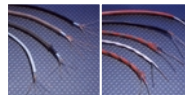
Alarmline Analogue is a four-conductor flexible cable with negative temperature coefficient insulation, surrounded by an outer layer of PVC. Optional extrusions and metal braiding provide additional chemical and mechanical protection where required. A range of associated electronic interface modules allows continuous monitoring for fire and open/short circuit faults. For hazardous area installation or where limited access prevents local mounting of the interface module, Alarmline may be remotely connected via short term fireproof cabling. Alarmline Analogue cable is recoverable in that it will revert to the standby state once the heat source has been removed, provided the cable is not totally destroyed.

Alarmline Digital

Employing a twin conductor "switching" cable, the Alarmline Digital system operates by melting of internal insulation between the conductors at a predetermined temperature. This allows a short circuit which is detected by a simple electrical device, to provide a fire alarm signal. Fault conditions are detected by continuous monitoring for an open circuit state.

Sensor cable supports

A comprehensive range of support hardware and clips are available to suit any installation.



Approvals

International approvals include:

- UK power generation companies
- Factory Mutual
- Chinese power generation authorities
- BASEEFA
- Vds

THE COMPANY

Backed by the technical and financial strength of Kidde International, Kidde Fire Protection has over sixty years experience in designing, manufacturing and commissioning industrial and commercial fire protection systems throughout the world.

FURTHER INFORMATION

Contact your local Kidde distributor or

Kidde Fire Protection on +44 (0)1844 265003

for further information.

Kidde Fire Protection UK Sales Office – Head Office

Thame Park Road, Thame,
Oxfordshire OX9 3RT, UK
Tel: +44 (0)1844 265003
Fax: +44 (0)1844 256156
E-mail: info@kfp.co.uk
Web: www.kfp.co.uk

UK Sales Office

Unit 12, Atley Way, North Nelson
Industrial Estate, Cramlington,
Northumberland
NE23 1WA UK.

Tel: +44 (0)1670 713455
Fax: +44 (0)1670 735553

International Offices

Dubai:
Tel: +971 4 337 2498
Fax: +971 4 337 5088

Hong Kong:
Tel: +852 2195 3688
Fax: +852 2743 7477

Singapore:
Tel: +65 424 7979
Fax: +65 424 7978

Australia:
Tel: +61 3 9765 3850
Fax: +61 3 9765 3800

