

Analogue

Linear Heat Detection Cable LHDC



The Patol analogue linear heat detection cable (LHDC) is designed to provide early detection of fire and overheating in circumstances where other forms of detection would not be viable, either due to inability to sustain the environment requirements or through prohibitive costs.

Extensive single zonal lengths of the LHDC may be installed with the ability to trigger alarms for hot spots occurring on very small sections of the overall cable.

LHDC Analogue is a coaxial cable constructed with a copper coated steel central conductor, an inner insulation (dielectric), a tinned copper braid layer and an overall protective sheath.

The primary mechanism of heat (fire) detection is that the resistance of the dielectric, monitored between the central conductor and braid layer, has a negative temperature coefficient (NTC).

Analogue cable is employed in conjunction with an end of line terminating device and a zone monitoring unit or control panel with an appropriate LHDC interface channel.

LHDC may be installed in Hazardous areas by means of Intrinsically safe zener barriers. Similarly when the protected area is remote from the monitoring equipment interposing cables may be employed.

Features

- Adjustable Alarm set point
- Recoverable and resettable operation
- Can detect hot spots
- Zones of up to 500m in length
- Mechanical & Chemical protection available
- Easy to install
- Compatible with a full range of monitoring devices
- RoHS compliant — Lead Free

Applications

- Cable Tunnels, Ducts & Mezzanines
- Escalators & Moving Walkways
- Petro-Chemical Storage Tanks / Rim Seal Protection
- Paint Shops & Spray Booths
- Conveyors - Coal, Wood Sulphur.. etc
- Ceiling Voids & Attic Spaces
- Road & Rail Tunnel Carriageways
- Nuclear Reactor Plant Areas
- Refrigerated Stores & Cold Rooms
- Electrical Control & Switchgear Cabinets
- Warehouse High Rise Pallet Racking
- Oil Rigs & Off Shore Platforms
- Fume Cupboards & Glove Boxes
- Grain Silos & Agricultural Storage
- Road / Rail Vehicle Engine Compartments
- Steam pipe Leaks & Trace Heating Faults
- Product Lines - Flanges, Valves & Pumps
- Computer Room under Floor Cable Voids

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Hazards Include

- Safe Entry and Exit • Toxic Atmosphere • Oxygen Deficiency • Oxygen Enrichment •Flamable or Explosive Atmospheres • Visibility • Flowing Liquids or Free Flowing Solids • Excessive Heat