Protecting the Cold Chain

Fire Detection in Cold Storage

ProReact

- Reliable Sub-Zero Fire Protection
- Designed to Perform, Proven to Deliver
- Fully EN54-28:2015+A1:2020 Approved
- UL 521 Listed Heat-Automatic Fire Detector
- Minimises False Alarms, Reducing Costly Disruptions
- Seamless System Integration

The Complete Solution, Designed to Perform, Proven to Deliver

Enhance Your Cold Storage Safety with ProReact Linear Heat Detection (LHD)

Cold storage facilities are critical for safeguarding food, pharmaceuticals, and other temperature-sensitive goods. But the very conditions that preserve these products: sub-zero environments, high-bay racking, and continuous automation, also create unique fire detection challenges.

Condensation, frost, and restricted airflow often make conventional fire safety technologies ineffective. Fires that go undetected at source not only damage infrastructure but can also result in spoiled inventory and major operational disruption.

Common Cold Storage Fire Safety Risks

- High-bay Racking: Dense storage aisles make it difficult for conventional detectors to sense ignition at source

- Plant Rooms: Refrigeration and electrical equipment carry a high risk of overheating, ignition, or explosion

- Conveyors and Automation: Continuous movement of goods introduces friction and overheating points

- Insulation Panels: Flammable sandwich panels can accelerate fire spread once ignited

Introducing ProReact Linear Heat Detection (LHD)

Thermocable's ProReact Temperature Sensing LHD systems are engineered to meet the unique fire detection challenges in cold storage by delivering continuous detection across high-risk zones. Unlike conventional systems that monitor only at fixed points, ProReact protects the entire lengths of a risk area, ensuring fires are detected at the source – whether that's in racking, plant rooms, or along conveyors.

Why Choose ProReact LHD?

- Reliable in Sub-Zero Conditions: Our LHD systems are purpose-built for the demanding environments of cold storage, maintaining consistent performance even in deep sub-zero temperatures (as low as -60°C)

- Minimises False Alarms: By integrating with existing fire alarm systems, it adds an extra layer of verification to ensure each activation represents a genuine event, reducing disruption and costly product losses.

- Comprehensive Coverage: Each detection zone can cover up to 3,000 metres, making it ideal for different types of cold storage facilities

- Seamless System Integration: Works with both conventional and addressable panels ensuring compatibility with existing fire safety infrastructure

- Certified Reliability: Our LHD systems meet a wide range of safety and performance standards including the EN54 series, VdS, CE marking, FM Approval, and UL 521 certification.

Protect Your Investment with ProReact LHD

Ensure the safety and efficiency of your cold storage operations with Thermocable's ProReact Linear Heat Detection. With proven performance in sub-zero conditions, continuous protection across high-risk zones, and seamless integration into your fire safety infrastructure, ProReact LHD is the smart choice for safeguarding your business-critical cold chain.

Find Out More

To understand how ProReact Linear Heat Detection can be applied to your cold storage facility, please contact our Sales team, at contact@thermocable.com

We are here to help you protect your temperature-sensitive facilities with the best fire detection solutions available.
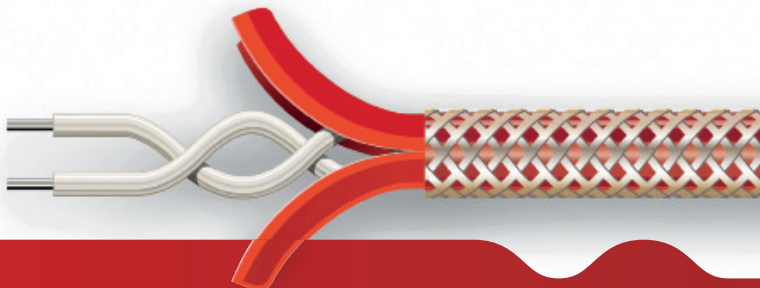
Need assistance?
Call: +44 1274 882359
Email: info@thermocable.com

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