

Freezer Warehouses

How Protectowire's CTI Series, developed for cold storage, can minimize costly false alarms.

Freezer warehouses, also known as cold storage warehouses or refrigerated warehouses, are an important type of storage that makes preserving and moving perishable items significantly easier. This kind of storage often includes food, cardboard boxes, wooden pallets, and other materials involved in packaging that can easily lead to a fire situation. In addition to numerous fire hazards, a major problem in refrigerated areas is the danger of a false alarm.

Protectowire Linear Heat Detectors can be used to protect the valuable contents of freezer warehouses. The Protectowire CTI Series is a fixed temperature continuous Linear Heat Detector and is the only digital linear heat detector that can distinguish between an actual fire condition and a short caused by mechanical damage. In a pre-action or double interlocked pre-action system, common in freezers and cold storage facilities, two actions are required to initiate the suppression system typically triggered by an alarm condition in the detection circuit and a low air condition in the sprinkler pipes. A false alarm within a linear heat detection system can create an opportunity for water to flow in the pipes, leading to a costly accidental discharge.

When used in areas protected by these double interlocked pre-action sprinkler systems, the Protectowire CTI Series detector should be installed adjacent to the sprinkler heads. The detector should also be installed on the back of racking load beams away from fork-lifts and pallets and comply with FM/UL spacing specifications. The CTI Series must also be supervised by a CTM-530 Module which must be connected to a listed or approved fire alarm control panel and can support up to 4000 ft (1220 m) of the CTI detector.

Protectowire's CTI Series Linear Heat Detector coupled with the CTM-530 Module is the ideal solution to protect freezer warehouses and minimize the cost of damage caused by false alarms and true fire conditions.

Questions?

If you have further questions please visit protectowire.com or call **781-826-3878**.