Water Mist Fire Protection Systems for Rolling Stock
Fire detection within the risk enclosure is usually achieved using Protectowire linear heat detection cable. This form of detection is very stable and robust and has a high degree of false alarm immunity. Other fire detection devices such as flame or smoke detection are also available.

When fire is detected an alarm signal is transmitted to the train operator via the system control panel.

Upon manual activation of the system by the train operator, a variable time delay function is initiated to enable the train to come to a stop prior to discharge of the water mist system.

The system can also be manually activated at the storage cylinders via a manual override device.

A simple and effective Rail Industry approved fire control panel is used to monitor the fire detection system within the risk and the panel performs various output functions for interface to the train system logic.

The control panel also monitors the integrity of the system wiring to the main solenoid actuator on the water mist nitrogen cylinder and provides a system discharged signal via a pressure switch device installed on the system discharge line.

Key Performance Characteristics:
- Effective hydrocarbon fire extinguishment within a 2 minute period
- High level of heat absorption and cooling
- Localised oxygen inerting at the flame front
- Flexible system architecture adaptable to many size configurations
- No environmental impact when activated
- No chemical residue when discharged
- Inexpensive to recharge
- Inexpensive to maintain
PRODUCTS:

**Fire Detection**
- Linear Heat Detection - Digital
- Linear Heat Detection - Fibre Optic
- Linear Heat Detection - Micro Chip
- Flame Detection
- Video Imaging Detection
- Spark Detection
- Control & Indicating Equipment
- Thermal Imaging Detection

**Water Suppression**
- Water Mist - High Pressure
- Water Mist - Intermediate Pressure
- Water Mist - Low Pressure
- Hybrid Systems (Water / N₂)
- Monitors & Delivery Systems
- High Speed Deluge

**Foam Suppression**
- Foam Concentrates
- Foam Proportioning
- Foam Delivery Systems
- Foam Concentrate Testing

**Explosion Protection**
- Explosion Suppression
- Explosion Isolation
- Explosion Vents & Pressure Relief
- Spark Suppression
- Explosibility Testing

**Support Services**

**Design / Engineering:**
- Design Services
- Project Documentation
- Project Management
- Cost Analysis
- System Hydraulics

**Technical Support:**
- Design Verification
- Commissioning
- Hazard / Risk Analysis
- Product After Sales Service
- Field Support

**Services & Testing:**
- Hydrostatic Pressure Testing
- System Recharging / Reinstatement
- Enclosure Integrity Testing
- Integrity Testing Equipment Calibration
- Foam Concentrate Testing
- Explosibility Testing
- Maintenance Services
- Training
- De-Commissioning
- Pipe & Fittings

**Special Applications**
- Military Vehicles
- Naval Vessels

**Gaseous Suppression**
- ProInert™ (IG-01, IG-55, IG-100, IG-541)
- Novec 1230™ Fluid (Fk-5-1-12)
- FM-200® (HFC-227ea.)
- Carbon Dioxide (CO₂)
- Hybrid Systems (N₂ / Water)
- Pressure Relief Vents
- Enclosure Integrity Testing Equipment
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