

FIRETRACE[®] LTD

AUTOMATIC FIRE SUPPRESSION SYSTEMS

STOPS FIRES WHERE THEY START

Rail Applications

Safety is paramount in the rail industry and protecting against the risk of fire is essential for the safety of both passengers and equipment.

Even a small incident can jeopardize the safety of passengers or create costly delays and downtime. In addition to the human element the industry depends upon expensive rolling stock and infrastructure support equipment which is often bespoke and impossible to replace at short notice.

Fires in anything from signalling equipment to plant and vehicles can be very costly for operators and traditional protection systems can be complex and very expensive.

The Firetrace[®] Solution

Firetrace[®] has developed a range of Automatic Fire Suppression Systems ideal for protecting all types of rail applications.

The systems use our unique Firetrace[®] linear detection tubing which is installed throughout the risk areas. This tubing can not only quickly and accurately detect a fire but also extinguish it before it can damage adjacent equipment or components.

The systems do not need complex electronic detectors or panels and operate simply using pneumatics. This alleviates the need for separate power supplies or battery backups and also makes the entire system fail safe with minimal moving parts.

The systems can operate autonomously or as part of a multiple system. They are ideal for remote or unmanned areas and equipment such as generators, mobile plant and rail vehicles.

Firetrace[®] is suitable for protecting both electric and diesel powered equipment as well as generation and control equipment.

They can also be used as fail safe pneumatic heat detectors in areas where fully automatic suppression is not suitable.





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So how does it work?

Firetrace[®] systems use unique pneumatic detection tubing which is installed throughout the risk area and connected to the patented cylinder valve. The tubing is then charged with nitrogen and this pressure is utilised to hold the valve in the closed position.

Should a fire (or temperature above 120 degrees centigrade) occur the pressurised tubing will burst and the cylinder will activate deploying the extinguishant immediately onto the fire.

A switch is also added to the system and is held closed by the pressure. Should the tubing burst or the pressure be lost for any reason then the switch will open and this signal can be used to isolate the equipment and raise an alarm.



Why Choose Firetrace[®]?

Firetrace[®] offers affordable suppression systems to protect critical vehicles, plant and equipment. The systems react quickly minimising expensive damage and downtime by not only detecting the fire but extinguishing it at source.

The systems can be easily retrofitted to existing equipment, avoiding the need for complicated detectors and electronics.

All Firetrace[®] systems are CE marked and manufactured under our ISO 9001:2008 quality system.

Firetrace systems are compliant with the Railway Group standards and have previously been accepted for use on a number of rail projects:

- Side tipping ballast wagons
- Auto ballasters
- Sandite modules & Rail head treatment trains (RHTT)
- Infrastructure monitoring vehicles
- Long welded rail vehicles
- EMU Translater vehicles

Firetrace[®] has been manufacturing suppression systems for over 20 years and has a vast experience in the Fire industry. We have a number of documented success stories where the systems have both detected and extinguished fires with little or no damage to the equipment.

Firetrace[®] offers a full design, installation and after sales service and is recognised by most major insurers.



Firetrace[®] systems are also suitable for protecting signalling equipment, tunnelling equipment and all types of plant associated with the construction & maintenance industry.

