

FIRE SAFETY IN CAR PARKS

A Complete Fire Detection Solution.

Increasingly Linear Heat Detection Cable is being recognized as the fire protection of choice for car parks. Its unique factors mean it is ideally suited for the harsh environmental conditions that are present

Modern car parks face an ever-increasing fire risk. Developments in the car industry mean that the material used in vehicle manufacturing can be often highly combustible, which can generate intense fires that generate very high temperatures. Once a fire has started they often rapidly spread between vehicles, and adjacent floors and buildings.

Fire detection systems need to be able to detect quickly and reliably, with minimum long term maintenance and crucially without causing unwanted alarms. Fire detection systems not only have to protect life, but also the building and infrastructure.

Fast, reliable detection can reduce damage and the high cost of repair or replacement, minimize down time and consequential loss and lessen the impact for potential pollution and the possible inhalation of toxic fumes.

FirePlus-LHD is a global leader in the design and manufacture of specialist fire detection products for Industrial applications.

Risk

Car parks are often prone to high air flows, this coupled with exhaust fumes that are generated can cause severe problems for conventional smoke detectors. Linear heat detection cable is not affected by these conditions. Similarly, it is also unaffected by environments that are prone to damp and high humidity.

The suitability of FirePlus-LHD is to work effectively in this environment means that it is not prone to generating false alarms, which is an issue caused by traditional smoke detectors.



FIRE SAFETY IN CAR PARKS

Application

FirePlus-LHD is installed on the ceiling of the car park using specialist clips and fixings. The small bend radius means that it is capable of providing total area coverage, even for the most difficult layouts.

Its discreet nature means that it is less likely to suffer from vandalism, which is common for other point type detectors. It is also possible for Context Plus to supply braided FirePlus-LHD, to offer additional mechanical strength.

System

Context Plus offer two FirePlus-LHD systems for this type of application. A resettable (Analogue) system or a non-restorable (Digital) system. Both systems are made up of a control device (optional for Digital cable) and small diameter linear cable.

FirePlus-LHD Linear Heat Detection Cable

The FirePlus-LHD cable is designed to provide early detection of Fire conditions and overheating in circumstances where other forms of detection would not be viable, due to the inability to sustain the environment requirements.

Digital – Non Resettable

Extensive single zonal lengths of the FirePlus-LHD Digital may be installed with the ability to trigger alarms for hot spots occurring on very small sections of the overall cable. The FirePlus-LHD may be employed in a wide variety of applications but is particularly suited where there are harsh environmental conditions.

The FirePlus Controller is used in conjunction with Digital cable where a distance locator is required for the fire condition. It has a 4 digit display which is activated on fire condition and displays the distance into the zone the alarm has occurred. Digital FirePlus-LHD may be employed in lengths up to 2Km (1999m). The unit has an adjustment to accommodate interposing cables.

Analogue – Resettable

Zonal lengths of up to 300m of Analogue cable can be installed. With the ability to trigger for hot spot detection on small sections of the cable and additionally for an ambient temperature increase across the entire zone.

Analogue cable is used in conjunction with a FirePlus-LHD controller. This is a loop powered controller which can be fully integrated on either a conventional fire panel or an analogue addressable system.

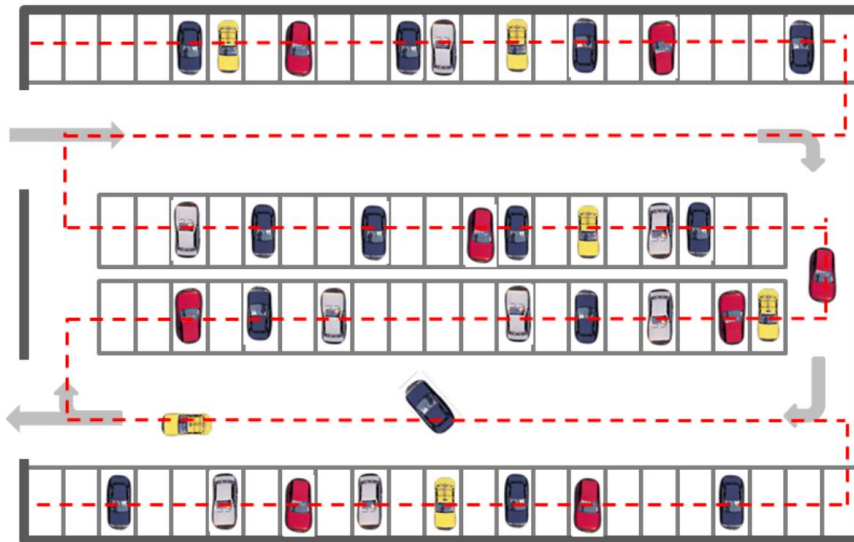
FIRE SAFETY IN CAR PARKS

JOCOYA online
ventas@jocoya.cl

Installation

Linear Heat Detection Cable is installed either on the ceiling of the car park or a dedicated cable tray; using specialist clips and fixings. It is installed so that there is an air gap between the ceiling or cable tray ensuring that they do not act as a heat sink towards the heat sensitive cable.

The FirePlus-LHD is typically installed in parallel runs; the maximum spacing between each run is in accordance with BS5389-PT1, 10.6m (5.3m either side of the cable center) however it is typically installed above the cars and road ways, as shown below.



Zoning

A single detection zone of FirePlus-LHD can cover between 1600sqm in accordance with BS5839-PT1 and various European standards. Each zone sends an alarm signal back to a control device, which can be connected to a conventional fire alarm panel or fully integrated with an Analogue addressable system.

CONTEXT PLUS LIMITED

175 Mauldeth Road, Manchester M14 6SG, England

Tel: +44 161 257 2541. Fax: +44 161 225 8817.

E-mail: charbel@xportsales.com Website: www.xportsales.com