

# Patol Limited

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## APPLICATION NOTE - LINEAR HEAT DETECTION CABLES

### Conveyors

Fires on conveyor systems can in some circumstances propagate quickly although the cause of the initial outbreak may have been developing for some time.

Three types of fire initiation should be considered, all of which are dealt with in our "Conveyor System Fire Protection – Overview" \*.

#### a) Static Fires - using Linear Heat Detection Cable

By suspending the Linear Heat Detection Cable on a catenary support central to the conveyor and about 1 – 1.5 metres above the conveyor.

#### b) Roller Bearings - using Linear Heat Detection Cable

With conveyors employing idler rollers, it is very often an overheating bearing combined with a deposit of combustible material which is the initial cause of fires.

Linear Heat Detection Cable Systems provide an economic answer as a single length of cable can be arranged to monitor a large number of bearing housings.

For each "zone" of Linear Heat Detection the System employs a length of Linear Heat Detection Cable with a zone monitor mounted adjacent to or at one end of the Zone.

The Zone Monitors provide actuation signals for the operation of sprinklers or other extinguishants and repeat contacts for shutdown and signalling to a control area.

#### c) Hopper Head / Transfer Point - using Series 5000 Infra-red Fire & Heat Detectors

\* This subject dealt with under "Conveyor System Fire System – Overview"

Also see separate data sheet 5000 – 03.

### Applicable Data Sheets

Linear Heat Detection Cable  
Patol Zone Control Module LDM-519 / SEN  
Patol Zone Control Module LDM-519 / ACT  
Patol Zone Control Module LDM-519 / LP (line powered)  
Patol LDM- 519 Eurocard Module  
Fixings (various)  
Patol Series 5000 Infra-red, Fire & Heat Detectors