



# SIGNALINE

## Applications: Conveyors

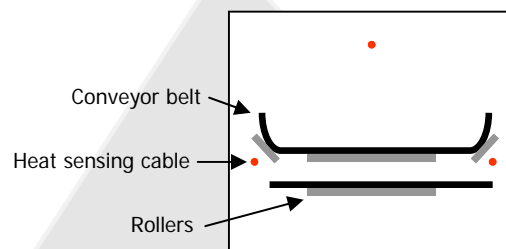
### Introduction

Conveyor belt systems often carry flammable materials such as coal. Dust and small pieces of material fall from the moving belt and accumulate at the sides of the conveyor. This settled dust provides a ready source of combustible material. The main source of ignition of the accumulated material is friction in the roller bearings caused by gritty particles of dust around a roller or the belt itself.



Signaline heat sensing cable provides early detection should overheating occur and can be easily installed in all conveyor systems with suitable fixing clips. When maintenance work is necessary the Signaline heat sensing cable is easily removed, replaced or repositioned. There are a considerable number of designs of conveyors, to select suitable fixing clips please refer to our web site.

Signaline heat sensing cable should be installed on each side of the rollers as shown. A third length of cable should be installed above the centre of the belt at a height of approximately 1.5 metres to detect a fire on a stationary loaded conveyor. If the conveyor housing has a pitched roof and contains more than one conveyor it may be desirable to have an additional length of cable close to but not directly in the apex.



### Which Signaline cable to use:

For use in high ambient temperatures in excess of 40°C use Signaline FT-88-R or Signaline FT-105-R nylon coated fixed temperature cables.

In lower ambient temperatures use Signaline FT-68-R fixed temperature cable or Signaline HD-S stainless steel braided analogue cable.

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