



## Intelligent Fire Detection Sensor for Conveyor Belts

Belt fires are a major hazard in underground conveyors, and early detection is critical.

It has been well documented (a full report is available upon request from Austdac) that Co Sensors alone are not sufficient in the early warning of belt fires. The report indicated that a combination of Smoke and Co Sensor and the addition of temperature (optional) give the best detection for any such early warning of fires in underground situations.



*Combined Fire Detection Sensor (optional temperature sensing)*

There is now available a fire detector which senses "product of combustion" and gives an indication of when set levels are detected.

This device is non IS and runs off 24 volts. The Co section has a 4-20mA output, and the smoke has a warning and trip relay output with adjustable sensitivity settings to suit most applications. These devices are also available as stand alone units if required.

The Sensors are available as a combined fire detection system or separate Co and Smoke Sensors.

The Smoke Sensor has warning and trip relays with adjustable sensitivity settings to take into account ambient conditions.

The Co Sensors are available in a full range up to 1000 ppm with either a 1-5V or 4-20mA signal output.



*Smoke Detector*



*Co Detector*

### Specifications

#### Smoke Detector:

- 18-24 Volts DC
- Warning Relay
- Alarm Relay
- Variable Warning Period (Sensitivity Control)
- Fault warning indication
- Healthy indication

#### Co Detector:

- 18-28 Volts DC supply
- 1-5V or 0.4-2V output
- Range 0-50, 0-100, 0-200, 0-300, 0-500, 0-1000 ppm

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