BOSCH

Reliable and fast fire detection for industrial manufacturing plants

Industrial sites are hazardous environments, with numerous risks of fires and explosions which could damage people, premises or expensive machinery. Resulting forced downtime, and repair or replacement of ruined assets, generates high unplanned costs.

Bosch provides compatible solutions and smart systems with constant monitoring and safety coverage to protect workers and assets and ensure business continuity.
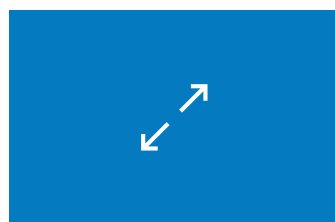
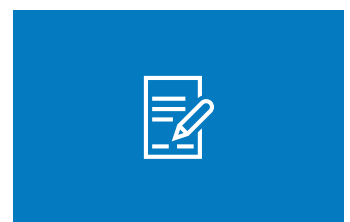## Four key goals for safety managers in industrial plants

Ensure safety

Guarantee business continuity

Minimize risks

Comply to policies

> This is a robust, durable fire detection system

End-user, Lupin Limited pharmaceutical plant, India

Read the whole story

Reliable fire solutions from Bosch to ensure safety and business continuity in industrial applications

Dusty production processes

Challenge

Dust from production can accumulate on the detectors and trigger false alarms

Solution

AVENAR 4000 detectors feature a dust-repellent labyrinth and cap construction to prevent dust buildup and other physical contamination

Electromagnetic disturbance

Challenge

Electrical machinery and electronic devices create electromagnetic disturbance values that can lead to false alarms

Solution

The unique eSmog feature of the AVENAR 4000 detectors informs operators about EMC values to avoid false alarms

Sterile requirements

Challenge

Clean rooms need to be kept sterile, but required fire detectors are often magnets for dust and difficult to clean

Solution

Our invisible fire detectors are ultra-slim, therefore gathering hardly any dust or dirt. Any unavoidable dust can be cleaned easily thanks to their slender surfaces

Confined spaces

Challenge

Tight spaces can easily ignite due to electrical sources and trapped dust

Solution

Our aspirating smoke detectors don't require clearing spaces around them and even maintain LSN loop functions in the event of wire interruption or short-circuit

High ceilings

Challenge

Storage rooms typically have high ceilings, making it difficult for classic smoke detectors to alert quickly

Solution

Video-based fire detection AVIOTEC can be installed at different heights to monitor large areas, detecting a fire at its source within seconds

Explosion risk

Challenge

Some areas have a high risk of explosions due to the materials used and processes performed

Solution

Our explosion-proof smoke, heat and flame detectors, plus call points work effectively in these challenging conditions, thus providing a reliable safety solution

More information on fire detection for industrial applications ›