

Innovative early fire detection with the Fire Multi Detector

Technical fire protection



We are STÖBICH.

Pioneer and world market leader in structural fire protection for more than 40 years.

STÖBICH Brandschutz develops, manufactures and installs individual and series solutions worldwide in the field of structural fire protection and is one of the most innovative and world-leading companies in the industry. Since 1980, the Goslar-based family business has been setting the tone in the field of fire and smoke protection systems. In addition to the division of fire protection closures for track-bound conveyor systems, STÖBICH is also a specialist and market leader in textile fire protection. The production site in Lower Saxony produces numerous fire protection solutions for the intralogistics sector as well as almost invisible textile fire and smoke protection solu-

tions for architecturally sophisticated and open room concepts. Customers are clients from numerous industrial sectors and the public sector who plan and realise new or existing building projects. In the field of technical fire protection, STÖBICH develops pioneering solutions for early fire detection (detection by camera) and for storage and transport safety (cabinets and boxes) for lithium-ion batteries.



150

Patents

11

World innovations

87

Countries

We offer solutions!

Early fire detection

The challenge

Only a fire that is detected early can be fought with little effort. In early fire detection, early detection of fires is crucial for quick and successful firefighting.

What causes large fires?

1

the **time** between the start of a fire and firefighting

2

the **high energy density** of the stored materials, such as lithium-ion batteries, waste, paper, wood, chemicals, etc.

3

the **ambient conditions** e.g. dust and weather





Special case recycling centre: Hazards and insurance cover



The recycling industry is experiencing a huge increase in fires. One of the causes is the increased number of electronic waste with built-in lithium-ion batteries. In addition to disrupting operations, smaller fires result in increased costs and risks for employees. The extent of the consequences increases with larger fires.

Due to the high environmental impact of fires involving plastics and toxic chemical substances, the official requirements are particularly strict here: premiums are drastically increased or the insurer even refuses to provide insurance cover.

Early fire detection

The solution

Fire Multi Detector: Innovative early fire detection 3-in-1

The earlier a fire is detected, the more efficiently it can be fought. The Fire Multi Detector uses optical sensors to recognise a fire at an early stage. This is achieved with specially adapted hardware and software without visualisation as standard. However, permanent visualisation is optionally possible via a PC.

The detector is a **smoke, flame and heat detector in one**, reacts as standard when at least two fire parameters occur and can also be **configured individually according to customer requirements**. The Fire Multi Detector **works in almost any environment**. The messages are **evaluated by a separate control system** and signalled on site with the aid of **warning devices**. In addition, the messages can also be forwarded via a

call, email and app alert. The system can be easily integrated into existing fire detection and extinguishing systems.

The Fire Multi Detector is currently available with **different detection area sizes**.

Monitoring criteria



Flames



Temperature



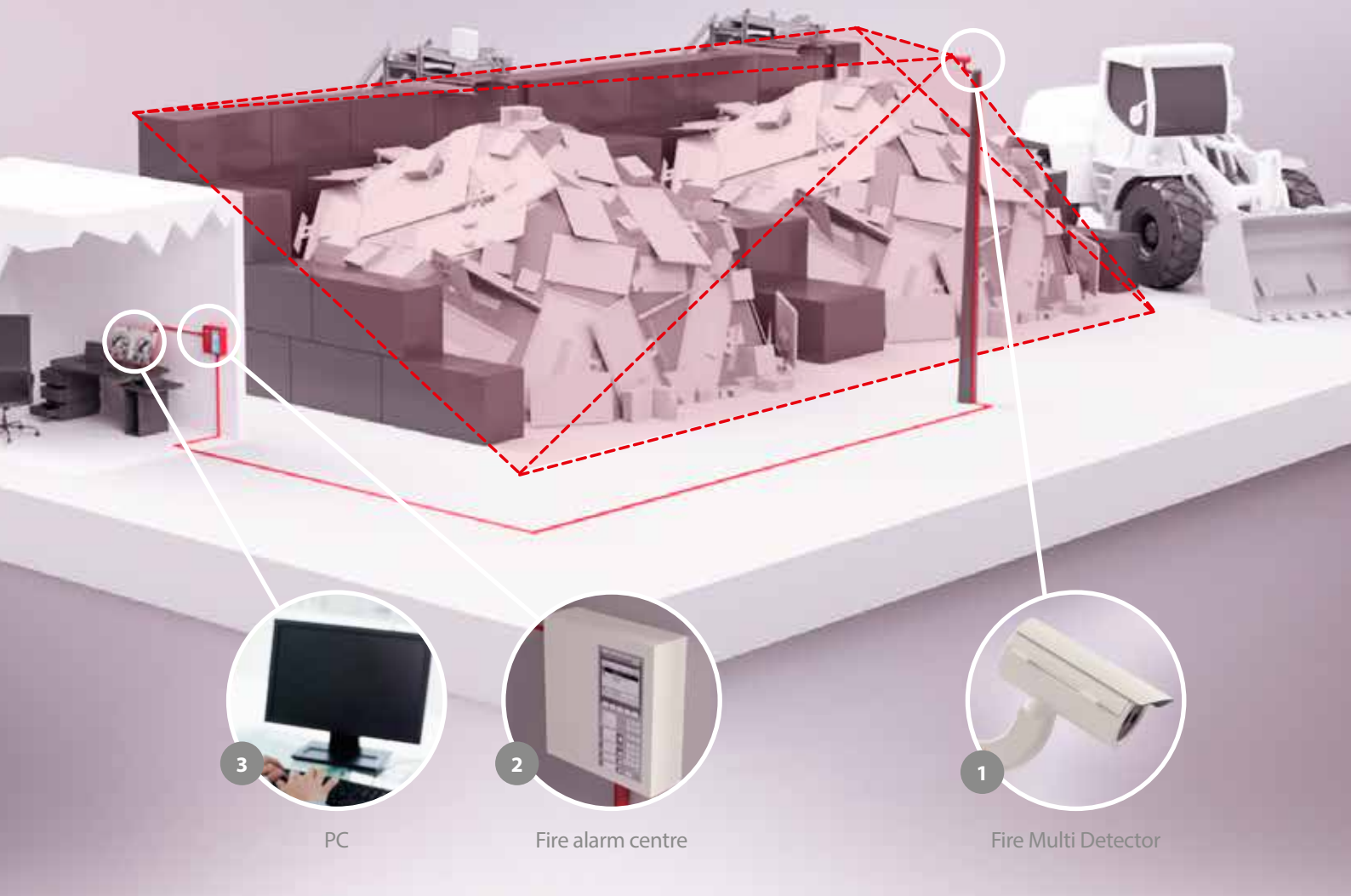
Smoke

Reliable and accurate

In contrast to comparable solutions, the Fire Multi Detector has **special optical and thermal sensors** that enable targeted early fire detection. The resolution of these sensors is optimised for the detection of smoke, flames and temperatures. The combination of these features **prevents false alarms**.

Patented early fire detection

- through the special combination of optical and thermal sensors
- even in complete darkness
- low susceptibility to false alarms, even in clouds, sun, fog, dust or heat-emitting vehicles
- round-the-clock monitoring (even without employees on site), with optional notification via a call, email and app alert



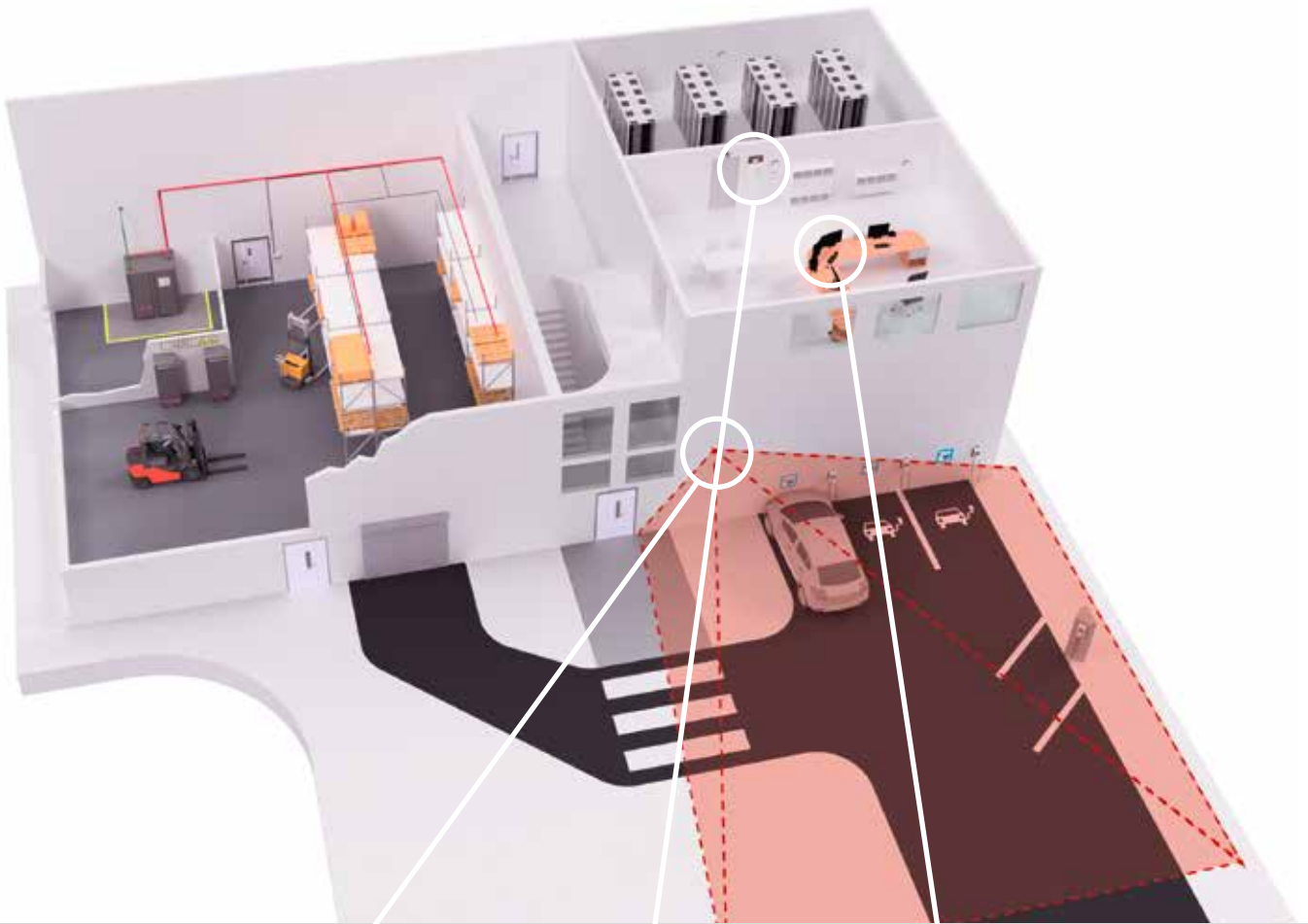
The Fire Multi Detector ① sends a signal to the fire alarm centre ②. Further firefighting measures are triggered immediately (e.g. alerting the fire brigade) and, depending on the option, a message is sent to a user-definable group of people via a call, e-mail and app alert. The situation can be checked immediately on site via a live image on a PC ③.

Our tip: optimise your insurance cover and save costs



Thanks to its **versatility in terms of functions and areas of application**, the Fire Multi Detector also impresses insurance companies that do not normally insure operators with an increased fire risk, or do so at very high cost. The Fire Multi Detector can be used to detect the source of a

fire at an early stage so that a major fire with corresponding negative effects cannot even start. This also **minimises the insurance risk**.



Fire Multi Detector



Fire alarm centre



PC

Versatile areas of application

The Fire Multi Detector can be used indoors and outdoors. As an all-rounder, it is highly valued in areas where a **rapid response time** is particularly important in the event of a fire or when a fire has already started, e.g. in the manufacturing industry, in energy production and in recycling centres, etc. In all cases, the surroundings (environment, technology, employees and assets) deserve special protection from the effects of a fire. There may be an **increased risk of fire**, which requires appropriate insurance or special conditions as prerequisites for the operating licence.

Our detectors are used for the timely detection of fires on **outdoor premises** with weather influences and dust as disturbance variables: by detecting smoke, temperatures and flames with just one detector.

By combining different technologies, we guarantee early, reliable and safe fire detection **indoors and outdoors**.



Possible areas of application for the Fire Multi Detector:



Recycling centres of all kinds, especially when processing large quantities of combustible material

Bus depots with poorly monitored areas

Outdoor areas with difficult ambient conditions (wind, fog, sun or poor visibility)

climatic chambers of battery test stands in which lithium-ion batteries are exposed to extreme conditions

Cold storage with temperatures down to -20 °C

Automated small parts warehouse

Hazardous materials storage, e.g. for lithium-ion batteries

E-charging stations Advantage: Monitoring of the vehicle to detect smoke and heat at an early stage in the event of battery damage

Retail, e.g. bicycle shops, DIY stores, etc.

Agricultural businesses, e.g. monitoring of hay/straw stores and stables



Analysis, evaluation and alerting via system app

The Fire Multi Detector saves detected events. These can be retrieved via a secure internet connection both on site and remotely using the system's own app. Users can also be alerted via the app.

This works completely remotely with smart devices: The app can be used to check the system status and view archived event notifications at any time.

Fire Multi Detector: All advantages at a glance

- ✓ Fast response time in the event of a fire
- ✓ No annoying deceptive alarms
- ✓ Versatile for indoor and outdoor use
- ✓ As a stand-alone system or in combination with existing fire detection and fire protection systems
- ✓ Less risk for insurance companies
- ✓ Analysis, evaluation and alarm signalling with smart software or by means of an optionally available system app



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