

Bosch Fire Alarm and Paging Systems

Minimize panic and improve fire alarm response times

- ▶ Enable a quick and smooth evacuation
- ▶ Faster fire alarm counteract process
- ▶ Comprehensive monitoring of the system
- ▶ Self-checks and automated diagnostics
- ▶ Immediate emergency reporting
- ▶ Extensive system coverage of all areas on-site



BOSCH
Invented for life



Better safe than sorry

The most vital aspect of a fire alarm system is to prevent panic, allowing the required intervention to take place in an orderly fashion. Practically speaking, designated staff members are discretely informed via a silent alarm about the possible fire emergency and its location. This first warning allows them to confirm the situation. Following confirmation, staff members are in a position to calmly and concisely manage the evacuation, minimizing the panic factor. This enables a quick and smooth evacuation preventing unnecessary injuries and potentially devastating mistakes.

Even faster response times

Time, as well, is an essential element in emergency situations. Shortening the time between emergency detection and reporting can make the difference between an emergency and a disaster. Besides obtaining a faster fire alarm counteract process, alarm system technical monitoring and immediate reporting to designated technical staff will undoubtedly increase system reliability and consequently overall safety and security.



Safety and security

Interfacing the radio paging system with the fire alarm system significantly effects the staff and building occupant safety. Paging receivers instantly and discretely vibrate or emit a soft bleeping pattern to inform security staff of a possible fire. In the unlikely case of a detector failure, the exact detector, its location, and type of failure is immediately directed to the maintenance staff's paging receivers so they can rectify the situation.

Linking both systems enables even faster fire alarm response times and prevents general panic by discretely notifying selected qualified personnel of the emergency – no matter where they are in the building or on the grounds.

Bosch's solution

Bosch's solution includes the Modular Fire Panel 5000 Series and a Radio Paging System as well as a supervised interface between both systems.

Fire Alarm System

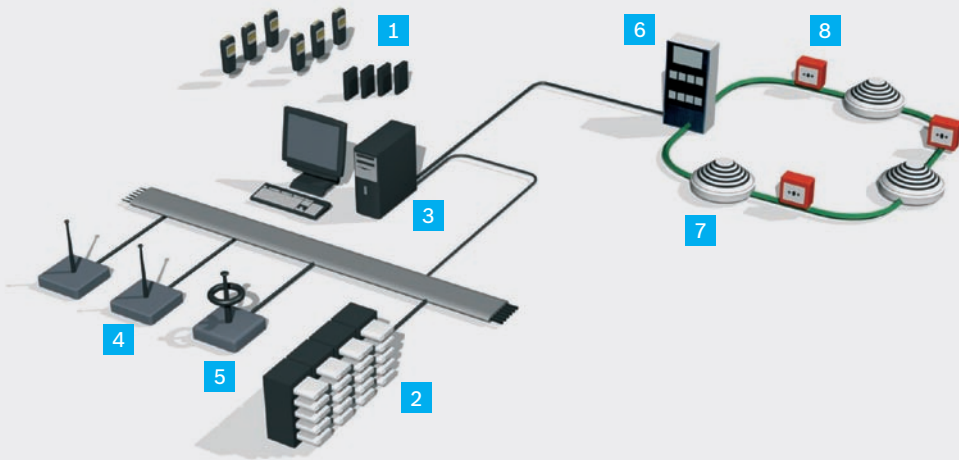
The heart of the system is the Modular Fire Panel 5000 Series. This central control unit can be connected to any product in Bosch's technologically advanced fire and smoke detector range including optical, thermal, and chemical (gas) sensors and intelligent evaluation electronics. The system is known for its false alarm prevention as well as detection speed and accuracy. Detectors feature self-monitoring sensor technology with panel fault indication in case of failure.

Highly reliable fail-safe operation

The system continues to operate even with a short or open circuit thanks to redundant loop configurations, controller redundancy, and continuous self-checks. Ground faults are automatically detected and automatic diagnostics further increase fail-safe operation.

Radio Paging System

Bosch's Radio Paging System is a fast and reliable communication and information system. Speed and reliability are vital criteria when considering safety and security hazards. A central paging server efficiently and reliably manages the paging system and logs all paged messages. This server is connected to various paging transmitters and aerials to provide full coverage of the site.



- 1 PS-Pagers & Pagers
- 2 Pager chargers
- 3 Central Computer
- 4 Paging Transmitters
- 5 Central Receiver
- 6 Modular Fire Panel 5000 Series
- 7 Fire detectors
- 8 Manual Call Points

Using wireless technology, the system is connected to individual paging receivers, which instantly allow important messages to be transmitted to responsible staff members throughout the building complex. The server continuously monitors the system communication line while the paging receivers continuously check available system coverage and report irregularities without delay.

Interfacing of both systems

Both the Modular Fire Panel 5000 Series and Radio Paging System are mutually connected using a supervised RS232 interface. Fire and technical alarms from the Fire Panel are swiftly transferred to the Central Paging Server. The Paging Server immediately initiates paging transmission.

Responsible staff members receive a discrete message containing all the necessary information. Interface failure is reported without delay and optionally the Radio Paging System can be triggered to send paging messages to the maintenance staff.

Bosch's PS-Pager

Bosch's aesthetic and compact PS-Pagers offer high performance and solid construction. They come with an overload-protected carrying clip, which can withstand heavy use without damaging the clip or casing. A 10- deep message stack stores 10 messages of up to 48 characters.

If two or more identical messages are broadcast, only the last message remains in the stack. The stack operates on a First-In-First-Out (FIFO) basis, but allows on demand message deletion.

Bosch Paging receivers

Alternatively for message receipt only the High Performance paging receivers can be used. These receivers as well comprise extensive paging receiver functionality.



- ▶ Personal Security mobile and Pager in one
- ▶ Reversible 12 character alphanumeric top display
- ▶ 3x12 character alphanumeric graphical backlit front display
- ▶ Soft key icon menu navigation
- ▶ Many address possibilities
- ▶ Post message LED indication for 8 seconds
- ▶ Bleep until reset
- ▶ 14 bleep patterns
 - 7 normal tones
 - 7 cricketed tones
- ▶ 7 vibration patterns
- ▶ 3 bleep loudness levels
 - Loud
 - Soft
 - Silent
- ▶ Optional one-way speech
- ▶ Fast charge and long standby times
- ▶ Absence detection and message forwarding
- ▶ Out-of-range indication (icon indication in display)

Bosch Security Systems

For more information please visit
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