

The right combination for the **ultimate in protection**

Integrated Fire Detection and Voice Evacuation by Bosch.



BOSCH
Invented for life



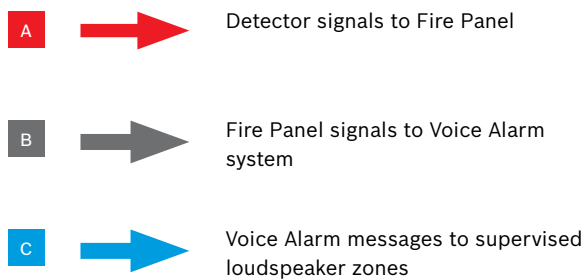
- ▶ Complete safety-protection of people and assets through integrated fire and voice evacuation solution
- ▶ Wide range of products from one supplier
- ▶ Supports projects of all types and sizes
- ▶ Modular architecture and future-proof installation
- ▶ Compliant to European and international standards
- ▶ Bosch operational reliability

Integrated Fire Detection and Voice Evacuation

Having the right building protection system gives everyone peace of mind – from property owners and security personnel to employees and visitors. When safety is at stake, the system has to respond immediately, with accurate, reliable performance, and with clear messages that keep everyone calm, no matter what.

Bosch takes an integrated approach to building protection, offering a combination of proven systems that delivers the ultimate in performance. Beginning with reliable fire detection and continuing through advanced voice evacuation, Bosch delivers a safe, future-proof investment for every kind of venue.

All-in-one protection

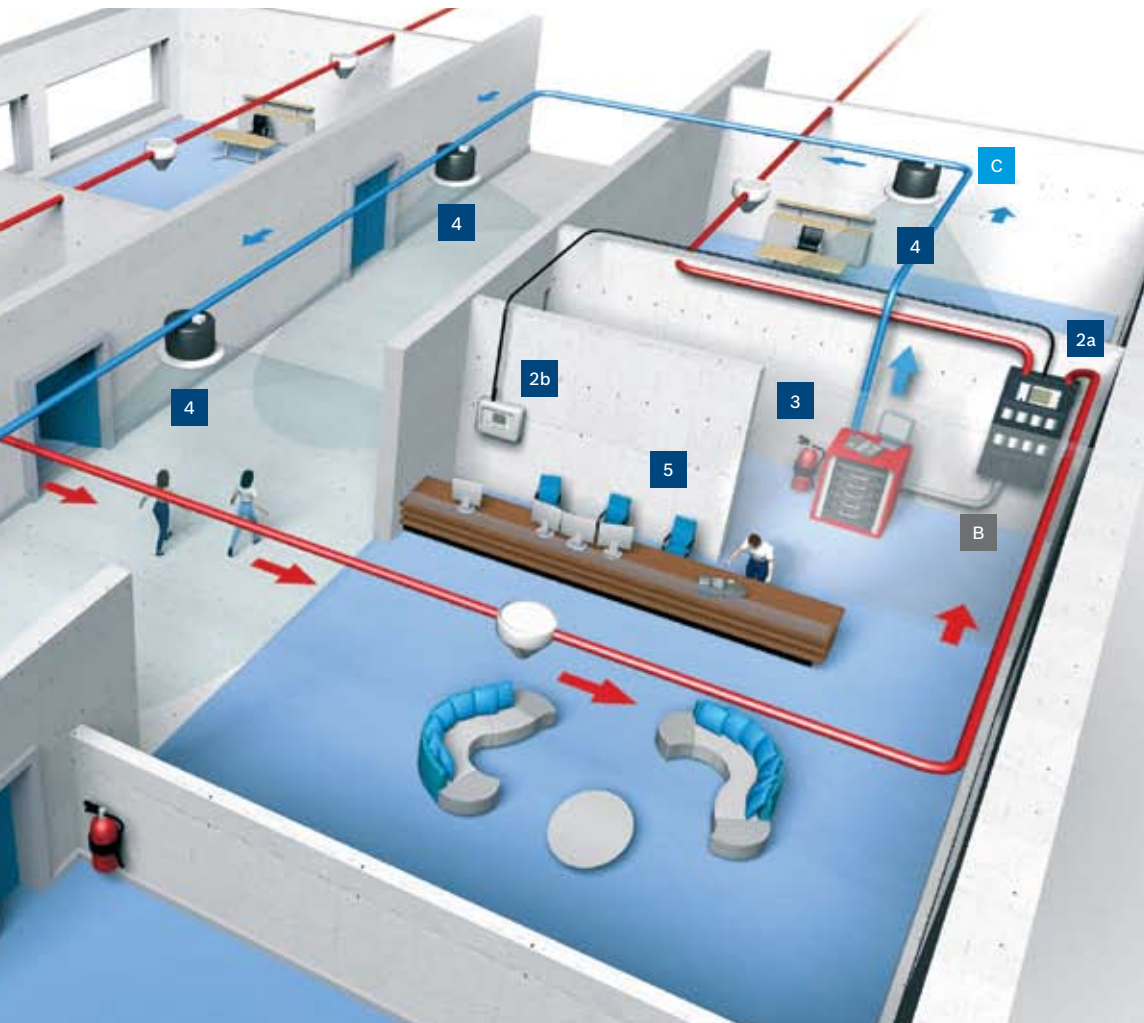


Bringing it all together

The integrated Bosch system provides a complete safety chain, from earliest detection to an orderly evacuation. Detectors by Bosch, known for their accurate detection, indicate exactly where hazards exist. Peripherals like sirens and flashing lights can be used to indicate different events, and the system can automatically alert the fire department or initiate pre-recorded voice messages. The voice evacuation system can address the problem area or the entire building with the correct message. Additional warning, with different messages, can be used to alert extra local security teams.

Effective fire safety

The addressable fire alarm system includes high-quality panels and peripherals, designed for earliest detection. Advanced detectors, interface modules, manual call points, sounders, and other peripherals add flexibility and support special applications. Maintenance is easy, with permanent supervision of all system functions and peripherals for added reliability. For smaller venues, the Fire Panel 1200 series supports up to 254 peripherals, and, in large facilities, a networked solution with Modular Fire Panel 5000 Series, can accommodate up to 32.000 peripherals.



Safety chain

- 1) Fire Detector detecting fire hazard
- 2) a) Fire Panel
b) Remote Keypad
- 3) Voice Alarm System
- 4) Loudspeaker zones with pre-recorded alarm messages
- 5) Security Room (example setup)
 - Remote Key Pad
 - Call station for live messages
 - Building Management System



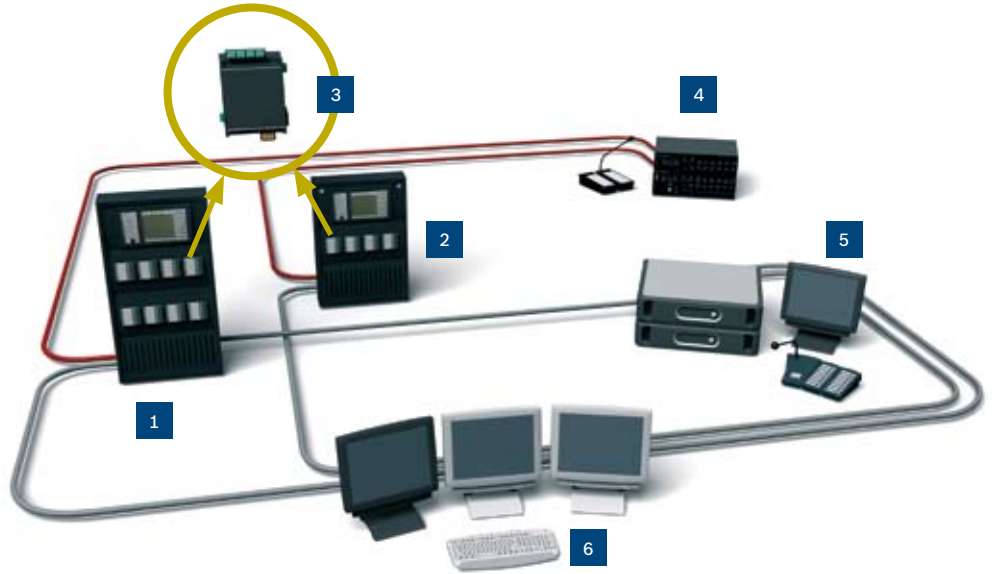
Advanced voice evacuation

Bosch includes everything required for an advanced voice evacuation system. Voice messages have excellent speech intelligibility and signals are clear and easy to understand. The system can route pre-recorded messages and signals, and can provide background music and commercial announcements during everyday operation. Permanent supervision of system functions and loudspeaker lines adds extra reliability. The Plena voice alarm system, with up to 60 zones, supports smaller applications, while the Praesideo, which can support more than 60 zones, is a leading choice for larger venues.

Each system uses a wide range, state-of-the-art peripherals to ensure maximum safety

Reliable performance that's easy to expand

- 1) Modular Fire Panel 5000 Series
- 2) Fire Panel 1200 Series
- 3) Serial Interface Module, built in panel
- 4) Plena Voice Evacuation System
- 5) Praesideo Public address and Voice Evacuation System
- 6) Building Management System



Flexible interfaces for every project

The system is designed for expandability, and all the devices and peripherals work seamlessly together. In smaller applications, a flexible RS-232 interface is used to integrate the components of the Fire Panel 1200 or the Modular Fire Panel 5000 Series and the Plena voice evacuation system. In larger applications, an open interface, based on standard protocols (OPC and Ethernet) integrates the Modular Fire Panel 5000 with the Praesideo, public address and emergency sound system, through a building management system for advanced control. A direct connection is also possible.

Reliability from a technology leader

The security chain is fully EN-certified (approved for EN54-2 and -4 for fire and for EN54-16, EN60849 and ISO 7240-16 for EVAC), and builds on Bosch's more than 80 years of experience as a technology leader. Each system meets the highest standards for quality, safety, and functionality, and offers exceptional flexibility and options for expandability. The result is a future-proof installation, supported by a world leader in fire detection and voice evacuation.

Solution overview by size of application, determining the maximum number of peripherals, channels and zones

Size of application	Typical integrated Fire/EVAC solution
Large site (e.g. airport, railway station, transportation terminal, public building, military facility, shopping mall, high-rise building)	Modular Fire Panel 5000 Series – 2,000+ detectors Praesideo System - multi channel and 60+ zones
Medium site (e.g. hotel, public building, large office, university, mid-rise building)	Modular Fire Panel 5000 Series - 254 to 2,000 detectors Praesideo System - multi channel and 60+ zones Plena VAS - 1 or 2 channels and up to 60 zones
Small site (e.g. low-rise building, manufacturing facility, large restaurant, small shopping center, distribution site)	Fire Panel 1200 series / Modular Fire Panel 5000 Series - 127 to 254 detectors Plena VAS - 1 or 2 channels and up to 60 zones
Very small site (e.g. church, school, shop, offices, small distribution site)	Fire Panel 1200 series - less than 127 detectors Plena VAS - 1 channel and up to 6 zones