

# How to keep guests safe in your restaurant

## Safety – Fire Detection



**BOSCH**

Invented for life



Should a fire break out in your restaurant you would like to ensure that you, your guests, and your staff are alarmed in time and can make your way to safety. Let's take a look at how to improve safety within your restaurant:

### **Foster accurate detection**

Every second counts during a real fire. Precision and reliability are essential in the world of fire detection, because no two fires are exactly alike. For example, smoldering paper in a waste basket generates smoke but very little heat, while a fire in the kitchen might generate a strong heat flow. Early, accurate detection leads to faster response and minimized damage and downtime.

### **Present a safe environment**

Every restaurant strives to help its guests feel as comfortable and safe as possible. Compromising guest comfort has never been an option. For example, a false fire alarm and unnecessary evacuation procedure can lead to your restaurant's economic downturn. Installing a reliable and proven Bosch fire alarm system will help eliminate false alarms, so your guests can sit back and relax.

### **Acquire quick, intuitive operation**

New staff members need to be trained on how to operate the fire panel. Bosch fire panels are easy to learn and use. Operation is intuitive, supported by a language-independent quick reference guide right on the panel with explanations of the most important functions. The status of every zone is conveniently indicated on a single LCD screen. The user interface is color-coded, and LEDs light up to indicate active zones, any problems, and status information.

Bosch Security Systems has the answer

# Example of a restaurant with fire detection



The above schematic gives an example of how to increase safety within your restaurant\*:

- 1 A fire panel is installed behind the reception desk, allowing the host/hostess to check the status of the panel and all zones (Fire/Fault).
- 2 Manual call points are placed throughout the restaurant in a way that allows people to find them quickly and trigger an alarm in case of fire.
- 3 Optical thermal detectors are placed in critical areas, where disturbances (steam, dust, cigarette smoke) are expected. This reduces false alarms.
- 4 Thermal detectors are installed in the kitchen.
- 5 Optical smoke detectors are used at all non-demanding areas.
- 6 Our unique Bosch series of flush-mounted (“invisible”) fire detectors are installed in all guest areas, to keep the aesthetics pleasing.
- 7 Remote indicators are connected to every automatic detector, as shown in the dining room, to enable personnel and fire fighters to locate the heart of the fire quickly.
- 8 Signaling devices like sounders, beacons, or a combination of both are placed throughout the restaurant, in a way that provides enough sound level to evacuate all guests in case of a fire.

\* Please observe the local and international regulations.

Installers information



**The fire panel**

Installation of our fire panel is as easy as “ABC”

- A.** Mount the panel with the help of the integrated bubble level.
- B.** Connect the panel following the integrated wiring diagram. The PCB is protected completely by the user interface, eliminating accidental damage to the components.
- C.** Once connected, important information is displayed immediately. For example, the panel will inform you if the battery is defective, if there is a ground fault, or if a sounder is broken.

**Operating levels**

The fire panel has three different operating levels. Although level 1 doesn’t need an access code, levels 2 and 3 require four-digit codes (level 2 is also accessible with an optional key switch). Access codes for levels 2 and 3 can be changed. Different test functions are available. You can run LED, buzzer, and LCD tests on level 1. And you can perform additional tests for zones, outputs, and Notification Appliance Circuits on levels 2 and 3.

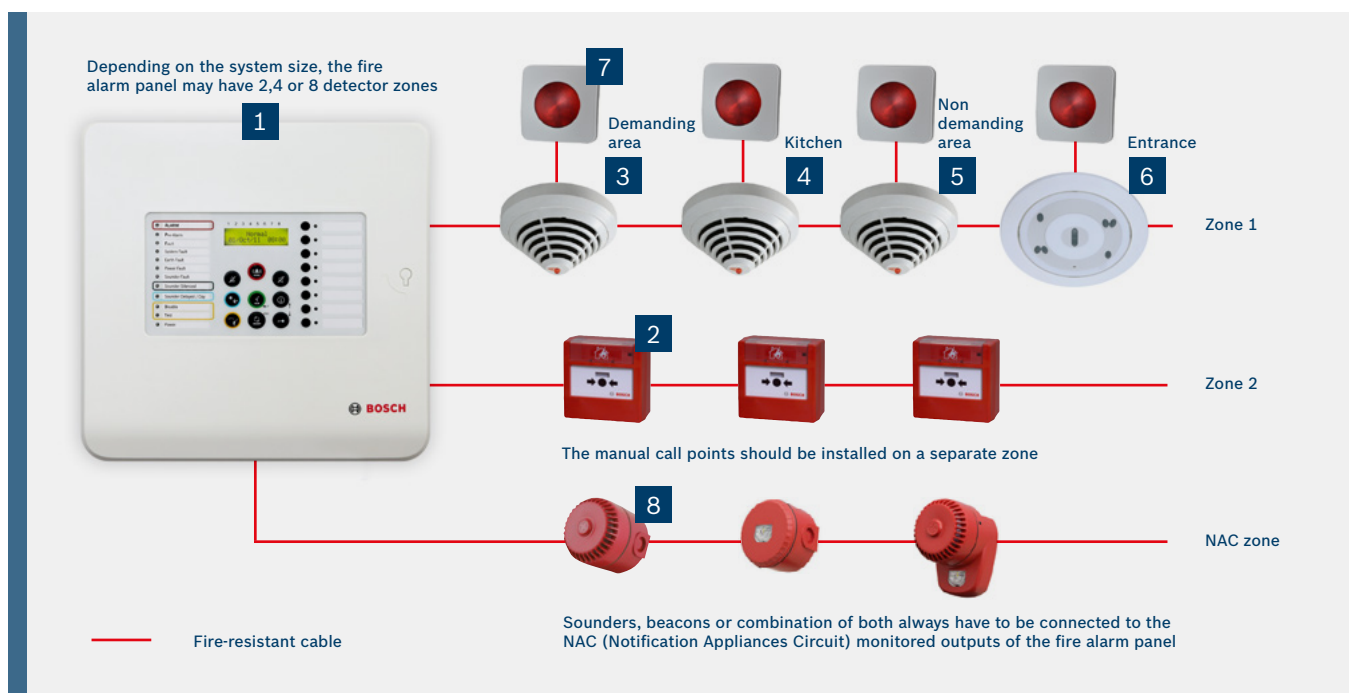
**Programming**

You can program the panel easily via the keypad and LCD display. The zones can be configured independently, allowing for a custom tailored result. The default programming saves time by helping you to get familiar with the system easily and quickly.

**Fast and precise detectors**

In general: the more sensors a detector has, the earlier it can detect a fire and the fewer false alarms it generates. Therefore, we use multi-sensor technology in our fire detectors. This enhances the immunity of the fire detectors from ambient influences such as dust, humidity, and temperature variation and ensures best-in-class differentiation between real fires and mere disturbances.

# Example of a fire detection system



# Products used in this example

Image	Product name	Ordering code	Corresponds with number in drawing on page 2 and 3.	Description
	Fire alarm panel	FPC-500-2; FPC-500-4; FPC-500-8	1	Alarm verification Dual-detector dependency Dual-zone dependency Intermediate alarm storage Programmable delays
	Optical smoke detector	FCP-O320	3 6	High reliability of detection thanks to evaluation electronics Active adjustment of the threshold (drift compensation) if the optical sensor becomes dirty Activation of a remote external detector alarm display possible
	Optical thermal detector	FCP-OT320	4	All features of the FCP-O320 All sensor signals are analyzed continually Alarms are automatically triggered
	Thermal detector	FCH-T320	5	All features of the FCP-O320 Using combined thermal differential/thermal maximum principle
	Detector base	MS 400 B	3 4 5	required mounting base to mount the optical smoke detector (FCP-O320), optical thermal detector (FCP-OT320) or thermal detector (FCH-T320)".
	Smoke detector protective basket	SK 400	6	Protective Basket consists of 5 mm round steel, and is painted aluminum gray (RAL 9007)
	Conventional manual call point	FMC-300RW- GSRRD	2	Alarm triggering by pressing the black marking LED display for triggered alarm or inspection evaluation
	Sounder	FNM-320-SRD	8	Volume up to 112 dB(A) Can be used in adverse environmental conditions For 12 V DC and 24 V DC
	Beacon	SOLLX-W-RF-R-S	8	Complies with EN54-23 Up to 7.5 m coverage Low current consumption
	Combination sounder and beacon	ROLP-R-LX-W-RF	8	Complies with EN54-3 and EN54-23 Up to 7.5 m coverage / DIN tone 102 dB(A) Low current consumption
	Remote indicator	FAA-420-RI-ROW	7	360° view, for both wall mount and ceiling mount Easy cabling Long life and robust construction housing
	Battery	D126	1	12 VDC sealed lead-acid Fully rechargeable Maintenance-free
	Key for resetting manual call points	FMC-KEY-RW	2	Key for resetting the manual call point

**Disclaimer**

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