

How to keep customers safe in your shop

Safety – Fire Detection



BOSCH
Invented for life



If a fire breaks out in your shop you would like to ensure that your customers, your staff, and you are alerted in time, allowing you all to make your way to safety. Let's take a look at how you can limit damages and create a safer environment:

Avoid damage with fast, accurate detection

Time is essential during a fire, but early and accurate fire detection can minimize damage and injury. Preventative measures can start upon detection; for example, by using the fire extinguisher or calling for help. Minimized damage means that you can reopen your shop sooner after the fire, helping you get your business back on track.

Create a safer environment

Fire incidents need to be handled with speed, accuracy, and a cool head. If a fire occurs and you are able to evacuate customers, staff, and yourself in time and without injury, customers will remember this and will feel safe during future visits. It's a given that untimely evacuation and resulting injuries will affect the continuity of your business.

Prevent losses caused by false alarms

False alarms have major consequences for your shop: an unnecessary evacuation will reduce your revenue, and could even result in customers not returning to your store. That's where we come in... Bosch technology will keep false alarms to a minimum.

Instill confidence through ease of use

When new staff members are hired, they need to learn how to operate the fire panel. The easier it is for them to learn, the quicker they can start being productive. Our standard fire alarm panel provides a straightforward solution. A user-friendly system that requires minimum instruction to learn how to operate.

Please note: local regulations should be taken into account when planning a fire detection system.

Bosch Security Systems has the answer.

Example of a shop with fire detection



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

- 1 A fire panel, behind the counter, displays the status of all the zones (Fire/Fault).
- 2 Manual call points are placed throughout the shop in a way that allows people to find them quickly and trigger an alarm when needed.
- 3 Intelligent, multi-sensor detectors are placed in critical areas where disturbances – steam, dust, and cigarette smoke – are expected. These areas typically include the warehouse, and technical room. Bosch fire detectors will significantly reduce the number of false alarms.
- 4 Intelligent fire detectors with thermal sensors differentiate between smoke and steam in the kitchen area, so that smoke alone will not trigger a false alarm.
- 5 Intelligent fire detectors with optical smoke sensors are used in the sales area. Largely because smoldering fires are expected in these areas.
- 6 The unique Bosch series of flush-mounted fire detectors (“invisible detectors”) are installed in areas where you want to keep the interior design appealing.
- 7 Remote indicators are connected to every intelligent detector, enabling personnel and fire fighters to locate the heart of the fire quickly.
- 8 Sound alarms are positioned in the shop and warehouse, providing enough volume to evacuate everyone when a fire is detected.

* 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.

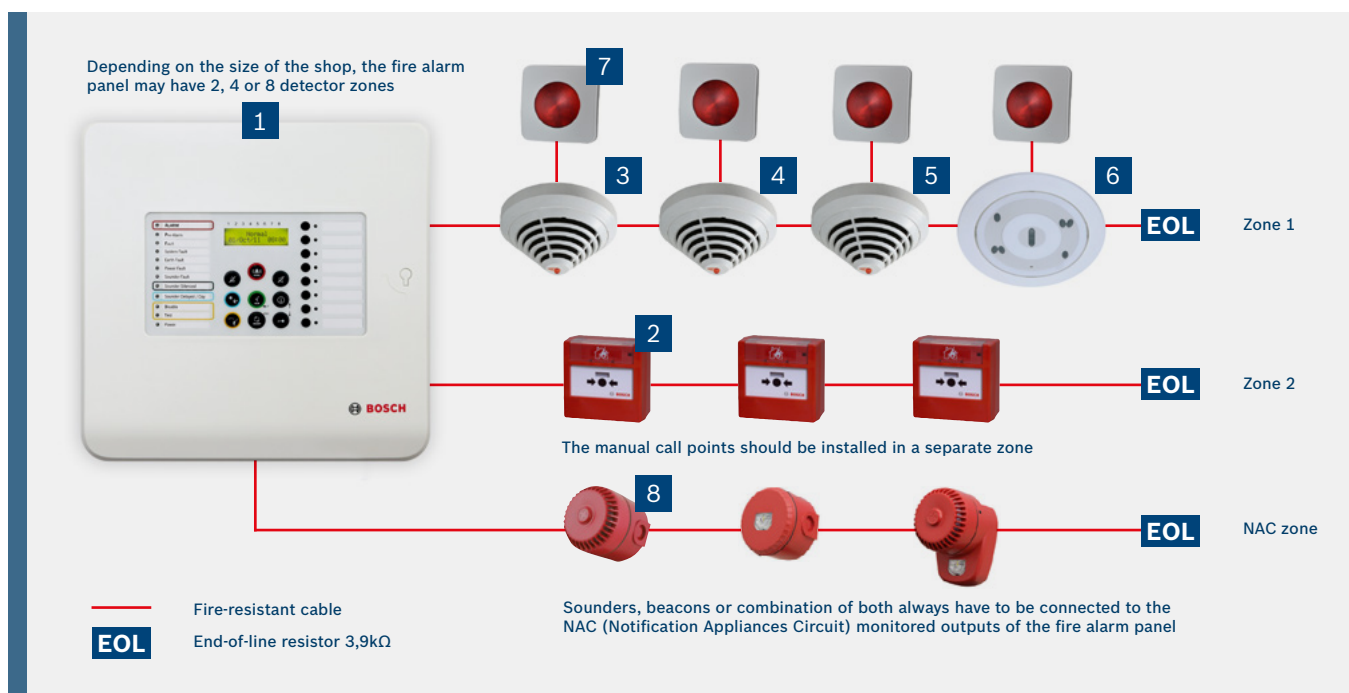
Programming

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, 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
	Intelligent fire detector	FCP-O320	5	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
	Intelligent multisensor detector	FCP-OT320	3	All features of the FCP-O320 All sensor signals are analyzed continually Combination of optical and thermal sensor
	Intelligent thermal detector	FCH-T320	4	All features of the FCP-O320 Using combined thermal differential/thermal maximum principle
	Detector base	MS 400 B	3 4 5	Detector base with Bosch logo Suitable for surface-mounted
	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
Optional				
	Flush mount fire detector	FCP-500	6	Modern, ultra-flat design Equipped with two optical sensors and a pollution sensor Smooth, easily-cleaned detector surface

Disclaimer

This application note depicts non-binding information. All assessments, analysis, recommendations or conclusions contained herein are non-binding examples and are strictly limited to the products manufactured by Bosch Security Systems. The reading of this application note does not replace in any case the individual consultancy through an authorized installer. Literal mistakes are not excluded. Bosch Security Systems cannot be held liable as a result of any installation work made by you or any third party based on this non-binding application note. Further, Bosch Security Systems is not responsible for testing and establishing the suitability of their system for your intended purpose and you are solely responsible for the overall system installed. Please observe the local regulations.

Bosch Security Systems

To learn more about our solutions, please visit emea.boschsecurity.com

© Bosch Security Systems, 2015
Modifications reserved
Printed in the Netherlands

BOSCH SECURITY SYSTEMS ASSUMES NO RESPONSIBILITY FOR INACCURACIES OR OMISSIONS AND SPECIFICALLY DISCLAIMS ANY LIABILITIES, LOSSES, OR RISKS, PERSONAL OR OTHERWISE, INCURRED AS A CONSEQUENCE, DIRECTLY OR INDIRECTLY, OF THE USE OR APPLICATION OF ANY OF THE CONTENTS OF THIS DOCUMENT.

