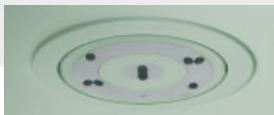
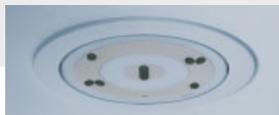


500 Series Smoke Detection

The art of invisible
fire detection



Security Systems



Security you can rely on.

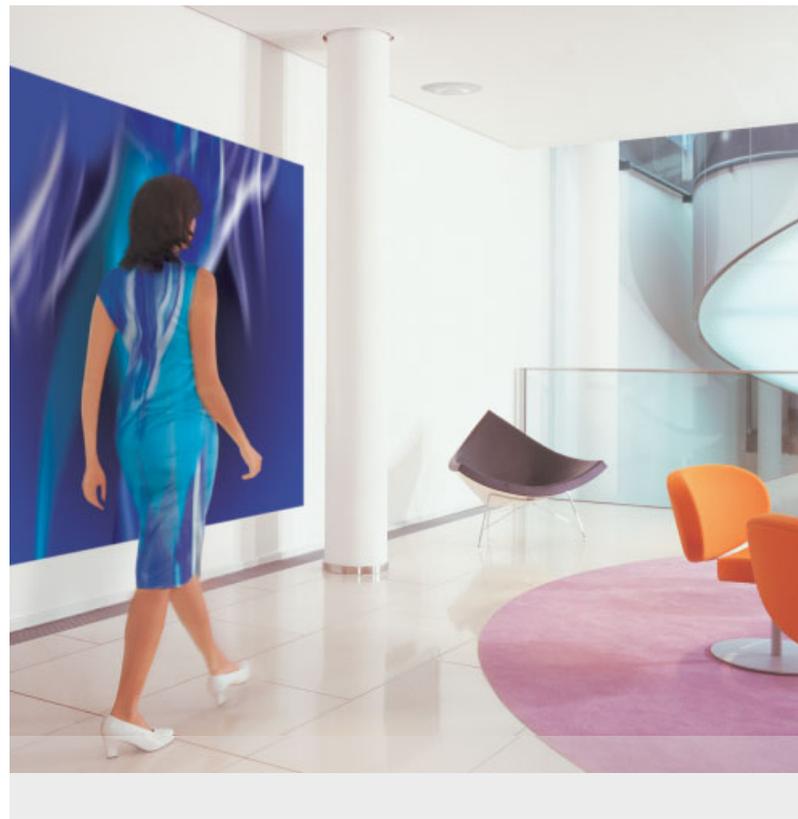
BOSCH

Tough on protection, invisible to the eye

Fire protection is essential in modern life. Hotels, public buildings and private companies need reliable fire alarm systems in case of an emergency. Fortunately most of the time fire protection remains unused. Conventional fire detectors tend to be quite conspicuous. Projecting down from the ceiling, they are very noticeable and not visually pleasing. This is especially for true in areas like lounges, galleries and museums. And as the detectors start to gather dirt and dust over time, they do little to help maintain a stylish, sophisticated ambience. That's where the 500 Series smoke detector comes in. If a fire detector is invisible, it can't spoil the interior design.

Discreet and unobtrusive

The 500 Series is a totally new concept. It is ultra-slim and lies flush with the ceiling –



a distinct advantage, which does not destroy the appearance of attractive rooms. Color rings that can be mounted in the detector also allow the units to be perfectly coordinated with the color of the surrounding ceiling.

Better esthetics, better detection, less costs

The fact that there is no optical chamber inside the 500 Series smoke detectors means it does not protrude from the ceiling. The smooth surface does not gather the usual visible dirt in rooms with high dust build-up.

So it's easy to clean and saves service time and costs. The level of dirt build-up is continuously measured. A trouble signal indicates when a unit needs to be cleaned. If service is needed with minimal effort the detector can be exchanged utilising the new push/remove system.



Powerful protection

The 500 Series is a scattered-light fire detection system with dual detection area. Because the sensors monitor two independent light areas in open space, the detector is extremely reliable.

The invisible detector is also available as a multi-sensor detector with carbon monoxide (CO) gas sensor. This combination of scattered-light sensor and CO gas sensor allows alarms to be evaluated using state-of-the-art signal processing methods.

This greatly decreases the likelihood of false alarms and increases the number of possible applications since this detector even works well in environments that are unsuitable for standard photoelectric detectors.

Security network capability, installation options and accessories

The 500 Series smoke detector can be connected directly to the Local Security Network (LSN). Both flush mount and surface mount is available. All of these options are easy to install and feature the integrated strain-relief system for wiring. A range of accessories for cleaning, detector testing and detector insertion/removal is also available.

Modern styling outside, Bosch know-how inside

The 500 Series has style built in. Inside it's packed full of proven know-how from Bosch. And that's something you can rely on. Just as you can on Bosch's service package, which ensures your investment remains safe well into the future.





Device	FAP-OC 500 / FAP-OC 500-P	FAP-O 500 / FAP-O 500-P
Detection principle	Combined photoelectric and gas sensing principle	photoelectric principle
Special features	- dust recognition - drift compensation for photo and gas part - mode switch/disabling photo part	- dust recognition - drift compensation
Voltage range	20V DC ... 33 V DC	
Current consumption	3,5 mA	
Alarm indicator	dual LED: red (Alarm), green (test mode)	
Alarm output	per data word via two wire signal line	
Electrical indicator output	open collector, switches 0 V via 1,5 kΩ, max. 15 mA	
Sensitivity		
- photoelectric part	According to EN 54-7 adjustable	According to EN 54-7 adjustable
- gas part	ppm-domain	
Max. monitoring area	120 m ² (refer VdS-guideline)	
Max. mounting height	16 m (refer VdS guideline)	
Min. mounting height	3 m	
Max. thickness of the inserted ceiling (flush mount)	32 mm	
Required drill hole	Ø 130 mm (-1 mm ... +5 mm)	
Minimum space to lamps	0,5 m	
Valid air speed	20 m/s	
Operating temperature	- 10°C ... +50°C	- 20°C ... +65°C
Relative humidity	< 95 % (non condensing)	
EN 60524 protection category	IP 33	IP 53
Interference stability	According to UL 268, VdS 2110 and DIN EN 50130-4	
Dimensions		
- detector without trim ring	Ø 113 mm x 55 mm (without base) / Ø 113 mm x 70 mm (with base)	
- detector with trim ring	Ø 150 mm x 55 mm (without base) / Ø 150 mm x 70 mm (with base)	
Housing material	Polycarbonat	
Color	signal white, RAL 9003	
- cover ring	silver grey, RAL 7001	
- detector cover	signal white or transparent (with color inserts)	

The modern way to secure esthetics.

Reliable fire detection even in style:
Bosch introduces the invisible fire detector.
A complete new concept that combines great
appearance with up to date technology.

500 Series smoke detector – an overview

- New, ultra-slim design
- Range of different facing panels for customised installation
- Dust- and dirt-resistant
- High reliability
- Adjustable alarm threshold
- Continuous measurement of dirt build-up
- Also available in combination with combustion gas sensor
- Easy exchange and service of the detector
- LSN capability
- Cleaning and testing accessories

Prize for Innovation
in Architecture and Technical Systems

DESIGN PLUS
AWARD WINNER 2004



Bosch Security Systems

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www.boschsecuritysystems.com

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FS-OT-en-01_4998144196_02

Tradition of quality and innovation.

For over 100 years, the Bosch name has stood for quality and reliability. Bosch Security Systems proudly offers a wide range of fire, intrusion, CCTV, management and communication systems and components to help you find the solution for any application. We are the global supplier of choice for innovative technology backed by the highest level of service and support. When you need solutions you can rely on, choose Bosch.

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