

Conventional Optical Smoke Detectors



Reliable Fire Detection. Anytime.



Heat Detector



Combined Sounder
Strobe



Beam Detector

SafetyVision



SelectFire Plus

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Conventional Smoke Detector

SFP-CSD-001



Device Overview

The SFP-CSD-001 is a 4-wire base-connected non-addressable photoelectric smoke detector with a dual-emitter setup of 2 wave lengths. This provides enhances sensitivity to a wider range of smoke conditions and improve the overall detection performance by using multiple light paths for detecting scattered light.

Functionality

Plug-and-Play

The plug-and-play design reduces complexity in installation, requiring no address coding and convenient debugging.

Enhanced Detection Accuracy

The dual-emitter, single-receiver system improves the overall accuracy of smoke detection by using multiple light paths to capture scattered light from different directions.

Reduced False Alarms

The labyrinth structure helps filter out ambient light and reduces the impact of environmental factors like dust, making the detector more reliable.

Labyrinth Contamination Compensation

The labyrinth contamination compensation function helps the detector adjust for the impact from dust, dirt or other contamination over time.

Technical Specifications

<i>Surveillance Area</i>	<ul style="list-style-type: none">Below 4 m installation height: 150 m²Between 4 m and 12 m: 80 m²
<i>Working Principle</i>	Smoke detection
<i>Alarm Mode</i>	Indicator light alarm
<i>Operating Voltage</i>	DC 24V
<i>Operating Current</i>	<ul style="list-style-type: none">Static current: $\leq 750\mu\text{A}$Alarm current: $\leq 25\text{mA}$
<i>Operating Temperature</i>	-10°C to +50°C
<i>Operating Humidity</i>	$\leq 95\% \text{ RH}$

Product Image



Ordering Information

<i>Family</i>	Conventional Detector
<i>Type</i>	Smoke Detector
<i>Ordering #</i>	SFP-CSD-001



Conventional Smoke Detector

SFP-CSD-001



Device Overview

The SFP-CSD-001 is a 4-wire base-connected non-addressable photoelectric smoke detector with a dual-emitter setup of 2 wave lengths. This provides enhances sensitivity to a wider range of smoke conditions and improve the overall detection performance by using multiple light paths for detecting scattered light.

Functionality

Plug-and-Play

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Reduced False Alarms

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Labyrinth Contamination Compensation

The labyrinth contamination compensation function helps the detector adjust for the impact from dust, dirt or other contamination over time.

Technical Specifications

<i>Surveillance Area</i>	<ul style="list-style-type: none">Below 4 m installation height: 150 m²Between 4 m and 12 m: 80 m²
<i>Working Principle</i>	Smoke detection
<i>Alarm Mode</i>	Indicator light alarm
<i>Operating Voltage</i>	DC 24V
<i>Operating Current</i>	<ul style="list-style-type: none">Static current: $\leq 750\mu\text{A}$Alarm current: $\leq 25\text{mA}$
<i>Operating Temperature</i>	-10°C to +50°C
<i>Operating Humidity</i>	$\leq 95\% \text{ RH}$

Product Image



Ordering Information

<i>Family</i>	Conventional Detector
<i>Type</i>	Smoke Detector
<i>Ordering #</i>	SFP-CSD-001



Conventional Heat Detector

SFP-CHD-002



Device Overview

The SFP-CHD-002 is a 4-wire base-connected non-addressable heat detector. It uses a thermal sensing element to detect fires by monitoring absolute environmental temperature, rapid rate of change in temperature, and large thermal differentials.

Functionality

Plug-and-Play

The plug-and-play design reduces complexity in installation, requiring no address coding and convenient debugging

Environmental Resistance

Constructed from highly acid-resistant and rust-resistant materials for longevity

Sensitive heat detection

The detector utilizes a sensitive thermal element to trigger an alarm in response to high environmental temperature, rapid rate of change in temperature, and large thermal differentials.

Technical Specifications

<i>Surveillance Area</i>	• Below 4 m installation height: 150 m ²
	• Between 4 m and 12 m: 80 m ²
<i>Alarm Mode</i>	Indicator light alarm
<i>Operating Voltage</i>	DC 24V
<i>Operating Current</i>	• Static current: ≤ 500μA
	• Alarm current: ≤ 25mA
<i>Operating Temperature</i>	-10°C to +50°C
<i>Operating Humidity</i>	≤ 95% RH
<i>Dimensions (with base)</i>	100 mm × 46.3 mm

Product Image



Ordering Information

<i>Family</i>	Conventional Detector
<i>Type</i>	Heat Detector
<i>Ordering #</i>	SFP-CHD-002



Conventional Beam Detector

SFP-CBM-100M



Device Overview

The SFP-CBM-100M infrared beam smoke detector uses a reflective linear infrared beam technology to detect smoke in the air. When smoke is detected along the optical path of the beam, an alarm signal is triggered and sent to the conventional fire alarm panel.

Functionality

Simple Wiring Configuration

The simple two-wire power supply requires 24V Direct Current to power the detector.

Simple Debugging

Our cutting-edge laser assisted positioning installation with stepper motor technology automatically calibrates the beam angle, removing manual error during installation as well as structural or mounting changes during use.

Low-Interference Design

We reduce false alarms from interference from other light sources with a neural network smoke recognition algorithm within the device.

Adjustable Sensitivity

Depending on location and application we allow installer to choose 1 of 3 levels of sensitivity at time of installation.

Simplified Maintenance

Our drift compensation algorithm accounts for dust accumulation, simplifying device upkeep.

Technical Specifications

Working Voltage DC 24V

Monitoring Current $\leq 0.5\text{mA}$

Operating Current $\leq 0.9\text{mA}$

*Max. Optical Path
Direction Deviation* $\pm 0.5^\circ$

Optical Path Length 10 m - 100 m

Storage Temperature -10°C to $+55^\circ\text{C}$

Operating Humidity $\leq 95\% \text{ RH}$

Color White

Dimensions (mm) $117 \times 152 \times 85.5$

Protection IP65

Product Image



Ordering Information

Family Conventional Detector

Type Beam Detector

Ordering # SFP-CBM-100M



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Conventional Sounder Strobe

SFP-CSS-004



Device Overview

The SFP-CSS-004 combines an audible sounder and a visual strobe light to provide a visual and audial alert to a fire situation. The sounder produces a loud noise, while the strobe flashes a bright light for clear alerts. This dual signaling ensures visibility in noisy environments and for those with hearing impairments.

Functionality

Dual Signaling

Dual signaling (combining an audible sounder and a visual strobe light) ensures emergency alerts are effective for everyone, including those with hearing impairments or in noisy environments. This approach enhances overall safety by providing clear, attention-grabbing signals in various conditions, ensuring people can respond to emergencies.

Plug-and-Play

The plug-and-play design reduces complexity in installation, requiring no address coding and convenient debugging.

Additional Features

- Meets all requirements of latest EN54 standards
- 2-wire, polarity-free design for easy wiring.
- EMC test approved, with strong resistance to electromagnetic interference
- Ultra-low power consumption
- Extra-loud sound output of over 75 dB(A) at 3 meters, along with a bright alarm signal
- Easy installation design
- Materials are highly resistant to acid and rust.

Technical Specifications

Working Voltage DC 16V - DC 28V

Rated Power 132.6 mW

- Current*
- Standby current: $\leq 400\mu\text{A}$
 - Alarm current: $\leq 8\text{mA}$

Alarm Mode Visual and audible alarm

- Alarm Volume*
- Modified Tone: 4s-5s
 - Sound Pressure Level: 75dB-115dB (A) at 3 m

Operating Temperature -10°C to $+55^{\circ}\text{C}$

Operating Humidity $\leq 95\% \text{ RH}$

Product Image



Ordering Information

Family Conventional Sounder

Type Sounder Strobe

Ordering # SFP-CSS-004



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