



SD-32 Series

Multi-functional Smoke Detector

- Compliant with UL 217 8th Edition standards
- Prevention against nuisance and false alarms caused by cooking and steam
- Polyurethane foam detection in fast moving fire and slow smoldering burn
- Patented technology ensures high tolerance against dust accumulation to prevent false alarms

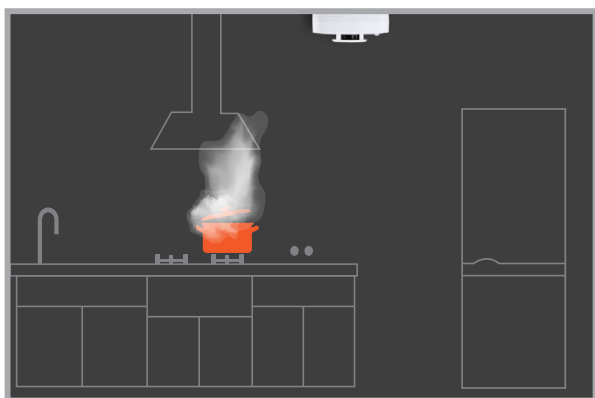
SD-32 Series

Multi-functional Smoke Detector



The SD-32 series, a next-generation multi-functional optical smoke detector compliant with UL 217 8th Edition standards, can distinguish actual fire and smoke from daily cooking smoke and steam, minimizing inaccurate alerts. It can also detect Polyurethane foam in fast-moving fires and slow smoldering burns. Moreover, the SD-32's patented technology enables it to operate reliably even in environments with substantial dust accumulation, avoiding false alarms. It also sends event codes to notify installers when maintenance is required.

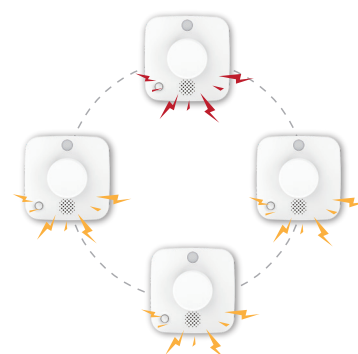
Additionally, the SD-32 delivers optimal performance in detecting fire and rate-of-rise heat detection. The optional built-in PIR motion sensor enhances functionality by detecting movements for custom scenes, such as lighting up hallways at night or saving energy. Some models also come with emergency light, which will turn on to alert users that the system is alarming. As a result, the series can help build a safe, comfortable lifestyle and give you a peace of mind.



Recognize fire and smoke without setting off nuisance alarms from cooking



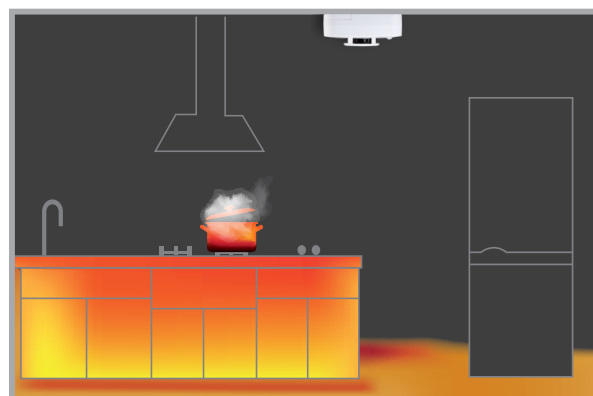
Differentiate between fast moving fire and slow smoldering burn, including flaming polyurethane foam



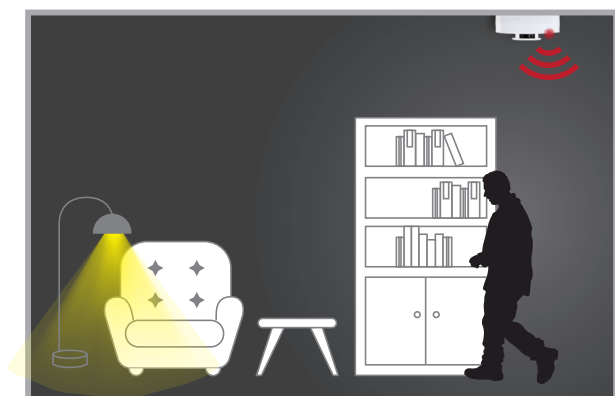
Serial connection enables all connected smoke alarms to sound together when one of them is triggered



Patented technology enables high tolerance against dust accumulation to prevent false alarms, while sends event codes to notify installers when maintenance is required.



Rate-of-rise heat detection



PIR motion sensor for home automation lighting control



Emergency light provides illumination in environment of darkness or dim light

Other Features

- Multiple optical sensor capable of preventing false alarms caused by cooking nuisance
- Polyurethane foam detection in fast moving fire and slow smoldering burn
- Patented technology ensures high tolerance against dust accumulation to prevent false alarms.
- The emergency light turns on to alert users that the system is alarming (SD-32-HME/-HME-SC only)
- High-voltage current surges Immunity
- Auto-calibration every month to re-adjust detection threshold value
- Self-diagnostics function to ensure optimal performance
- Loud 85dB Siren for audio alert
- Interconnection function allows all connected smoke alarms to sound together when one of them is triggered
- Randomized supervision signals to check system integrity
- Rate-of-rise heat detection when temperature exceeds 57.25°C or rises by 8.5°C per minute (optional)
- Built-in PIR motion detects movements and supports scene creation (optional)
- EN14604 certified
- Approved by UL 217 8th Edition testing standards

Specifications

SD-32-(H)(M)(E)-(SC)

RF Frequencies	429.82~433.92 MHz
Power Source	3V , CR123 Lithium battery x 3 3V , Alkaline battery x 2
Battery Life	Lithium battery models: SD-32-(H): 10 yrs / SD-32-M: 9 yrs / SD-32-HM: 9 yrs / SD-32-(H)(M)-SC: 4.5 yrs* Alkaline battery models: SD-32-(H): 4 yrs* / SD-32-(H)(M)(E): 3 yrs*
Audible Output	85dBA at 3m
Temperature Sensitivity	±1°C
PIR Motion Detection Range	Up to a radius of (6 meters) (at 3 meter mounting height**) (SD-32-M / SD-32-HM only)
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Operating Humidity	Up to 85% non-condensing
Dimensions	105mm x 105mm x 41mm

SD-32-(H)(M)(E)-SC-AC

RF Frequencies	429.82~433.92 MHz
Power Source	100-240AC, 50/60Hz
Backup Battery	3.6V, 200mAh NiMh battery pack
Battery Battery Life	1 months
Audible Output	85dBA at 3m
Temperature Sensitivity	±1°C
PIR Motion Detection Range	Up to a radius of 6 meters (at 3 meter mounting height**) (SD-32-M-SC-AC / SD-32-HM-SC-AC only)
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Operating Humidity	Up to 85% non-condensing
Dimensions	105mm x 105mm x 41mm

*Note: Actual battery life may vary with product settings, operating environment, and usage. Emergency light does not affect the battery life.

**Note: Mounting above 3 meters may affect detection performance.

Ordering Information

SD-32	Battery-powered Smoke Detector
SD-32-H	Battery-powered Smoke Detector with Heat Detector
SD-32-M	Battery-powered Smoke Detector with PIR Motion Sensor
SD-32-HM	Battery-powered Smoke Detector with Heat Detector and PIR Motion Sensor
SD-32-HME	Battery-powered Smoke Detector with Heat Detector, PIR Motion Sensor, and emergency light
SD-32-H-SC	Battery-powered Smoke Detector with Heat Detector and Interconnection function
SD-32-M-SC	Battery-powered Smoke Detector with PIR Motion Sensor and Interconnection function
SD-32-HM-SC	Battery-powered Smoke Detector with Heat Detector, PIR Motion Sensor, and Interconnection function
SD-32-HME-SC	Battery-powered Smoke Detector with Heat Detector, PIR Motion Sensor, emergency light and Interconnection function
SD-32-SC-AC	AC-powered Smoke Detector with interconnection function
SD-32-H-SC-AC	AC-powered Smoke Detector with Heat Detector and interconnection function
SD-32-M-SC-AC	AC-powered Smoke Detector with PIR Motion Sensor and Interconnection function
SD-32-HM-SC-AC	AC-powered Smoke Detector with Heat Detector, PIR Motion Sensor and Interconnection function
SD-32-HME-SC-AC	AC-powered Smoke Detector with Heat Detector, PIR Motion Sensor, emergency light and Interconnection function

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.