



## SD-32-H Series

### Multi-functional Smoke and Heat 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
- Reliable heat detection with timely alerts at 54–65 °C

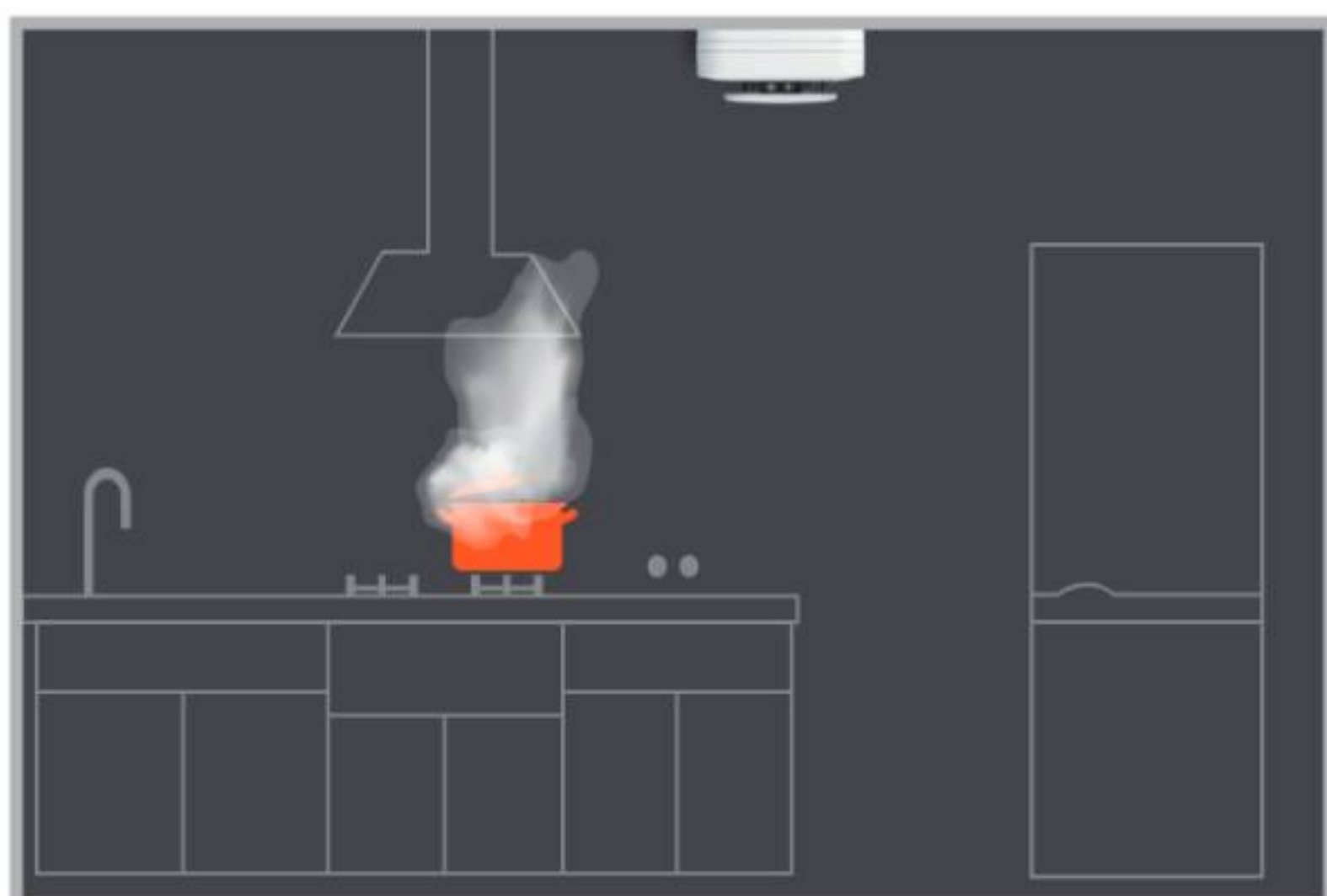
## SD-32-H Series

Multi-functional Smoke and Heat Detector



The SD-32-H 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 detector's patented technology enables it to operate reliably even in environments with substantial dust accumulation, avoiding false alarms. It also sends out pre-warning when maintenance and cleaning are required.

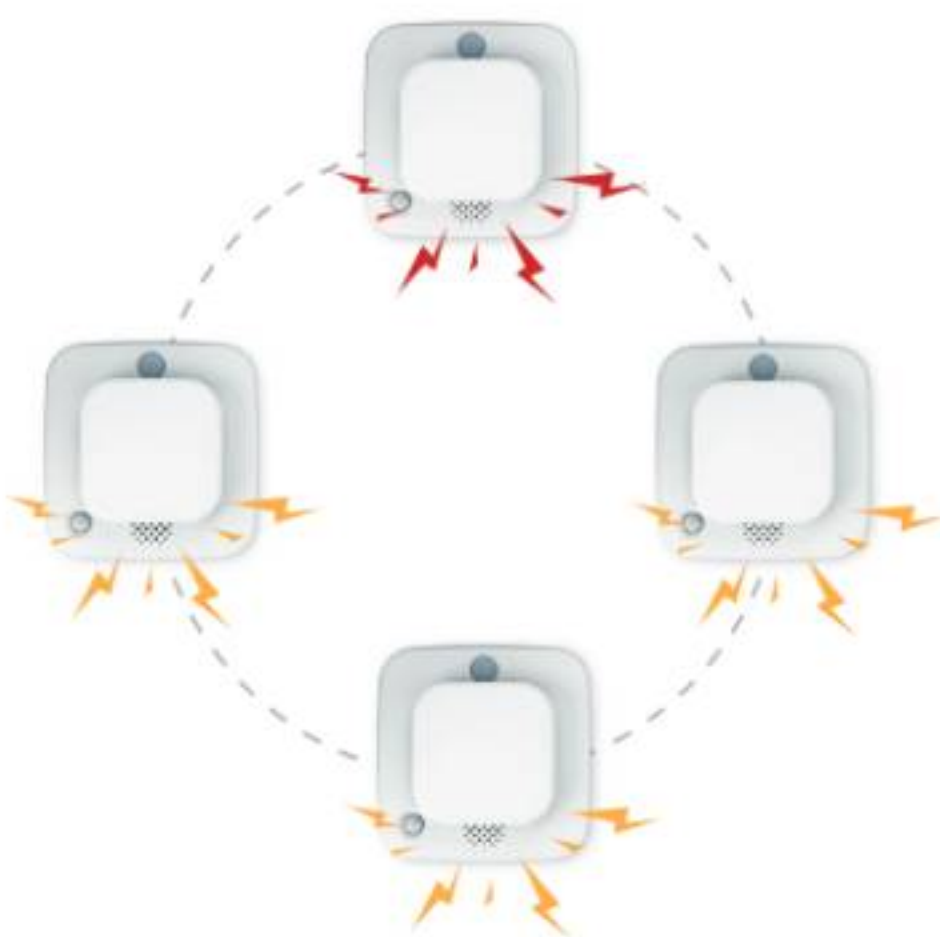
Additionally, the SD-32-H provides highly precise and stable thermal sensing, activating alerts when ambient temperature reaches 54–65 °C. The optional built-in PIR motion sensor enhances functionality by detecting movements for custom scenes, such as lighting up hallways at night or saving energy. Some 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



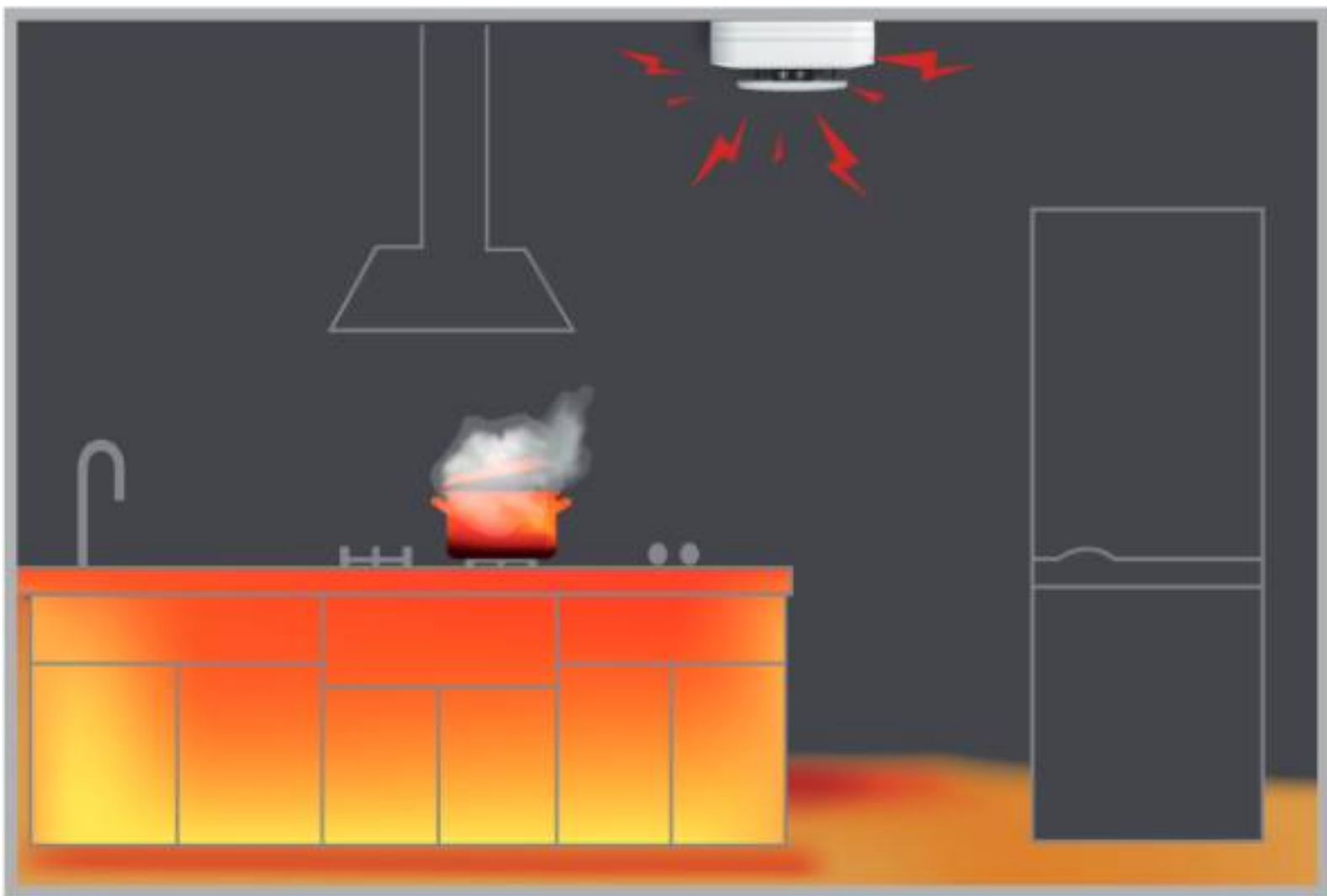
Serial connection enables all connected smoke alarms to sound together when one of them is triggered



Patented technology enables high tolerance against dust accumulation to prevent false alarms, while sends pre-warning when maintenance and cleaning are required



Openable cover allows quick and convenient dust removal



Fixed point heat sensing activates when ambient temperature reaches 54–65 °C



PIR motion sensor for home automation lighting control



Emergency light provides illumination in environment of darkness or dim light

Other Features

- Dual-LED spectrum 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 (optional models 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 (optional models only)
- Randomized supervision signals to check system integrity
- Fixed point heat sensing activates when ambient temperature reaches 54–65 °C
- 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             | 433 MHz / 868MHz                                                                                                                                                                       |
| Power Source               | 3V , CR123 Lithium battery x 3<br>1.5V , Alkaline battery x 2                                                                                                                          |
| Battery Life               | <b>Lithium battery models:</b> SD-32-H: 10 yrs / SD-32-H(M)(E): 8 yrs / SD-32-H(M)(E)-SC: 4 yrs* (TBA)<br><b>Alkaline battery models:</b> SD-32-H: 4 yrs / SD-32-H(M)(E): 3 yrs* (TBA) |
| Audible Output             | 85dBA at 3m                                                                                                                                                                            |
| Temperature Sensitivity    | ±1°C                                                                                                                                                                                   |
| PIR Motion Detection Range | Up to a diameter of 6 meters at 3 meter mounting height** (PIR model only)                                                                                                             |
| Operating Temperature      | -10°C to 45°C (14°F to 113°F)                                                                                                                                                          |
| Operating Humidity         | Up to 85% non-condensing                                                                                                                                                               |
| Dimensions                 | 106mm x 106mm x 45mm                                                                                                                                                                   |

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

|                            |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| RF Frequencies             | 433 MHz / 868 MHz                                                        |
| Power Source               | 100-240AC, 50/60Hz                                                       |
| Backup Battery             | 3.6V, 200mAh NiMh battery pack                                           |
| Battery Battery Life       | 1 month* (TBA)                                                           |
| Audible Output             | 85dBA at 3m                                                              |
| Temperature Sensitivity    | ±1°C                                                                     |
| PIR Motion Detection Range | Up to a diameter of 6 meters at 3 meter mounting height (PIR model only) |
| Operating Temperature      | -10°C to 45°C (14°F to 113°F)                                            |
| Operating Humidity         | Up to 85% non-condensing                                                 |
| Dimensions                 | 106mm x 106mm x 45mm                                                     |

*\*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-H         | Battery-powered smoke and heat detector                                                                            |
| SD-32-HM        | Battery-powered smoke and heat detector with PIR motion sensor                                                     |
| SD-32-HE        | Battery-powered smoke and heat detector with emergency light                                                       |
| SD-32-HME       | Battery-powered smoke and heat detector, with PIR motion sensor, and emergency light                               |
| SD-32-H-SC      | Battery-powered smoke and heat detector, with interconnection function                                             |
| SD-32-HM-SC     | Battery-powered smoke and heat detector, with PIR motion sensor, and interconnection function                      |
| SD-32-HE-SC     | Battery-powered smoke and heat detector, with emergency light, and interconnection function                        |
| SD-32-HME-SC    | Battery-powered smoke and heat detector, with PIR motion sensor, emergency light, and interconnection function     |
| SD-32-H-AC      | AC-powered smoke detector and heat detector                                                                        |
| SD-32-HM-AC     | AC-powered smoke detector and heat detector with PIR motion sensor                                                 |
| SD-32-HE-AC     | AC-powered smoke detector and heat detector with emergency light                                                   |
| SD-32-HME-AC    | AC-powered smoke detector and heat detector, with PIR motion sensor, and emergency light                           |
| SD-32-H-SC-AC   | AC-powered smoke detector and heat detector with interconnection function                                          |
| SD-32-HM-SC-AC  | AC-powered smoke detector and heat detector, with PIR motion sensor, and interconnection function                  |
| SD-32-HE-SC-AC  | AC-powered smoke detector and heat detector, with emergency light, and interconnection function                    |
| SD-32-HME-SC-AC | AC-powered smoke detector and heat detector, with PIR motion sensor, emergency light, and interconnection function |

