

MSS-AK-SD1 smoke detector

User manual



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1. Product overview



Fig.1. MSS-AK-SD1 smoke detector

The Myers MSS-AK-SD1 is a wireless smoke detector designed to protect your home against the risk of fire. Using a high-sensitivity optical (photoelectric) sensor, it continuously monitors the air for smoke particles and triggers an immediate loud audible alarm as soon as smoke is detected, giving you an early warning to react.

As a radio (RF) sensor, it does not connect to Wi-Fi or the app directly — it must be paired with a compatible alarm host, which in turn connects to the app and forwards the detector's alerts to you. Its compact, ceiling-mountable design makes it easy to install in bedrooms, living rooms, hallways, and other indoor spaces, while low power consumption ensures extended battery life between replacements.

The MSS-AK-SD1 can be used as a standalone smoke alarm or integrated into a broader smart home and security system, providing real-time notifications and helping to prevent the serious risks associated with a fire.

2. First use

1. Open the bottom case, fit the battery, then match bottom case slot to bracket buckle and fit the bracket to bottom case clockwise.

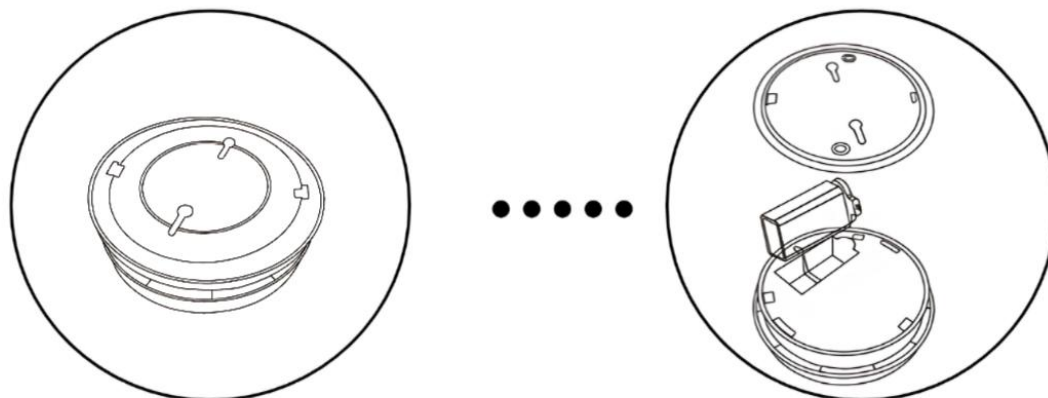


Fig.2. Removing the mounting bracket and inserting the batteries

3. Installation

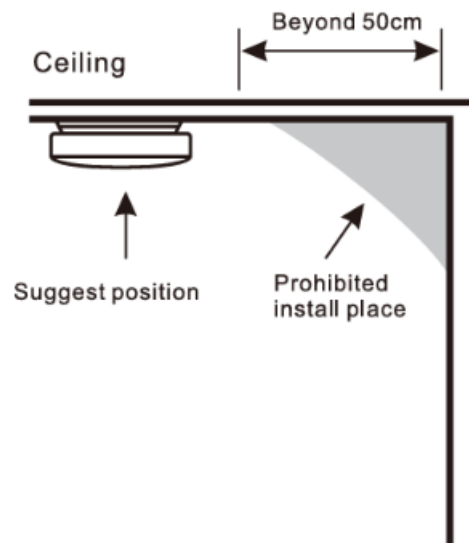


Fig.3. Installation method

1. Choose a suitable position to install.
2. Ensure the positions of two fix screws for the detector, and drill two holes in diameter 7 mm.
3. Put the expansion pipes into holes.
4. Fix the hanging plate with the 7 mm screws, and install the detector in the right position and direction as shown in the picture below, making sure it's stable. Put the detector on the hanger, and revolve to the end.

To test:

1. Connect the power. The detector enters normal working status after the indicator LED flashes once, then the indicator LED will flash 1 time per 60 seconds.
2. Press the test button, then the indicator LED flashes 1 time per second and the detector will sound "di-di-di". You can also blow smoke into the detector to test if it works normally. The detector will be reset automatically when the smoke density is lower than the alarm level and comes into normal detecting state.

4. App control

As a wireless RF sensor, the MSS-AK-SD1 does not connect to Wi-Fi or the app directly. It must first be paired with a compatible alarm host; the host connects to the app over Wi-Fi and forwards the sensor's alerts to you.

To pair the sensor, put the alarm host into detector-adding mode (refer to the alarm host's manual for how to do this), then insert the battery to power on the detector. The indicator LED will flash once, and the detector will transmit its wireless signal to the host. The host will beep or give a voice prompt such as "Adding completed" once it receives the signal, confirming the sensor has been paired successfully.

Low battery alert: If the LED flashes during normal operation, the battery is running low and should be replaced.

4.1. Working status

1. Normal working: Indicator LED flashes 1 time per 60 seconds.
2. Fault status with low voltage: Indicator LED flashes 1 time per 60 seconds and the buzzer sounds once.
3. Alarm status: Indicator LED flashes 1 time per second and the buzzer sounds 3 times.

4.2. Test function

When the detector is in normal working status, press the key, and the indicator LED will flash once while the buzzer sounds 3 times at the same time.

5. Maintenance and safety notes

Power supply: Use only batteries of the type specified for this device and replace both batteries at the same time. Insert them with the correct polarity as shown inside the battery compartment. Do not mix old and new batteries or batteries of different types.

Battery safety: Do not disassemble, puncture, crush, short-circuit, or expose batteries to fire, heat, or direct sunlight. Remove the batteries if the sensor will not be used for an extended period. Dispose of used batteries in accordance with local regulations; do not dispose of them with general household waste.

Installation: Mount the detector on a flat ceiling using the supplied hanger plate and screws, ideally in the centre of the room or hallway and at least 50 cm from walls and corners, as shown in the Installation section. Install a detector on every level of the home and outside each sleeping area. Avoid kitchens, garages, and bathrooms where cooking fumes, steam, or exhaust can trigger false alarms, and keep the detector away from air vents, fans, and open windows, as strong airflow can prevent smoke from reaching the sensor and delay detection.

Operating environment: The device is designed for indoor use only. Do not expose it to rain, condensation, high humidity, dust, or temperatures outside the range stated in the product datasheet. Keep the sensor away from direct sunlight and heat sources.

Cleaning: Wipe the device with a soft, dry cloth only. Do not use solvents, abrasive cleaners, or aerosol sprays, and never immerse the device in water.

Wireless connection: Keep the detector within the alarm host's rated RF range, and away from thick walls, metal surfaces, or major sources of interference, to ensure alarm signals reach the host without delay. Replace the battery promptly if the LED indicates a low-battery warning.

Servicing: The device contains no user-serviceable parts. Do not attempt to open or repair the sensor yourself, as this may damage it and will void the warranty. If the device is faulty, contact Partizan support using the details below. The optical smoke sensor has a limited service life, typically around 8-10 years; replace the whole device when the app indicates the sensor has expired or after the period stated in the product datasheet, even if it still appears to work. Gently vacuum the vents on the outside of the case every few months to remove dust that could reduce sensitivity or cause false alarms.

Testing: Test the detector at least once a month using the test button to confirm that the sensor, alarm, and RF connection to the host are working correctly. Never test the sensor with an open flame or real smoke.

Limitations: This sensor is a supplementary monitoring device and is not a substitute for a certified life-safety smoke alarm where one is required by local building codes or regulations. It should not be relied upon as the sole means of fire protection in situations where failure to detect smoke could result in injury, loss of life, or serious property damage. If the alarm sounds, evacuate immediately and do not re-enter the building until it is confirmed safe.

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