

uxcell SFM-27

uxcell SFM-27 DC 3-24V 100dB Active Electronic Buzzer Instruction Manual

Model: SFM-27

[Introduction](#) [Product Overview](#) [Specifications](#) [Safety](#) [Setup](#) [Operation](#) [Maintenance](#)
[Troubleshooting](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides instructions for the proper installation, operation, and maintenance of the uxcell SFM-27 Active Electronic Buzzer. This device is designed to produce a continuous sound alarm when a DC voltage between 3V and 24V is applied. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. PRODUCT OVERVIEW

The uxcell SFM-27 is an active electronic buzzer featuring a plastic housing and two pre-attached wires for easy connection. It is designed for various industrial and electronic applications where an audible alert is required.

Key Features:

- **Wide Voltage Range:** Operates on DC 3V to 24V.
- **High Sound Output:** Produces a continuous sound at 100dB.
- **Easy Wiring:** Equipped with black and red wires for straightforward connection.
- **Durable Construction:** Housed in a plastic casing.
- **Compact Design:** Suitable for integration into various systems.

Components:

- Electronic Buzzer Unit (SFM-27)
- Red Wire (Positive Terminal)
- Black Wire (Negative Terminal)

- Mounting Holes (for secure installation)

DC 3V-24V 100dB



Figure 2.1: Front view of the uxcell SFM-27 Active Electronic Buzzer, showing the sound output grille and attached red and black power wires.

3. SPECIFICATIONS

Parameter	Value
Product Name	Electronic Buzzer
Model No.	SFM-27
Sound-making Type	Continuous Sound
Rated Voltage	DC 3-24V
Rated Current	15mA
Sound Pressure	100dB
Operating Temperature	-20°C to +45°C
Overall Size (L*W*H)	47 x 30 x 14mm / 1.85 x 1.14 x 0.55 inch
Mounting Holes (L*W)	3.5 x 4mm / 0.14 x 0.16 inch
Mounting Hole Distance	39mm / 1.5 inch
Wire Length	11cm / 4.3 inch
Resonant Frequency	2.5 ± 0.5 KHz
External Material	Plastic
Color	White
Weight (per unit)	34g



Figure 3.1: Dimensions of the uxcell SFM-27 Active Electronic Buzzer, indicating mounting hole spacing and overall size.

4. SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the product:

- **Voltage Compatibility:** Ensure the power supply voltage is within the specified DC 3V-24V range. Applying incorrect voltage can damage the buzzer.
- **Polarity:** Connect the red wire to the positive (+) terminal and the black wire to the negative (-) terminal of the DC power source. Incorrect polarity will prevent the buzzer from functioning.
- **Wiring:** All wiring should be performed by a qualified individual or with proper knowledge of electrical connections. Ensure connections are secure to prevent short circuits.
- **Environment:** Do not expose the buzzer to extreme temperatures, moisture, or corrosive environments beyond its operating specifications.
- **Sound Level:** The buzzer produces a loud sound (100dB). Avoid prolonged exposure to the sound at close range to prevent hearing discomfort.
- **Children:** Keep the device out of reach of children.

5. SETUP AND INSTALLATION

Follow these steps to set up and install your electronic buzzer:

1. **Prepare Mounting Location:** Choose a suitable location for the buzzer. The buzzer features two

mounting holes with a distance of 39mm (1.5 inches) between them.

2. **Secure the Buzzer:** Use appropriate screws (not included) to securely fasten the buzzer to your chosen surface through the mounting holes.
3. **Connect Power:**
 - Identify the red wire and the black wire extending from the buzzer.
 - Connect the **red wire** to the **positive (+) terminal** of your DC power supply (3V-24V).
 - Connect the **black wire** to the **negative (-) terminal** of your DC power supply.
 - Ensure all connections are firm and insulated to prevent short circuits.
4. **Test Functionality:** Once wired, apply power to the circuit. The buzzer should emit a continuous sound. If it does not, refer to the Troubleshooting section.

6. OPERATION

The uxcell SFM-27 Active Electronic Buzzer is designed for simple operation. It functions as a direct alarm device:

- When a DC voltage within the 3V-24V range is applied to its terminals with correct polarity, the buzzer will immediately emit a continuous sound at approximately 100dB.
- The sound will cease when the power supply is disconnected or interrupted.
- This buzzer produces a continuous tone and does not have adjustable volume or tone patterns.

7. MAINTENANCE

The uxcell SFM-27 Active Electronic Buzzer requires minimal maintenance:

- **Cleaning:** Periodically wipe the exterior of the buzzer with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check the wiring for any signs of damage, fraying, or loose connections. Ensure the mounting remains secure.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges to prolong the life of the device.

8. TROUBLESHOOTING

If the buzzer does not function as expected, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound from buzzer	<ul style="list-style-type: none"> o No power supply o Incorrect voltage (outside 3V-24V) o Incorrect wiring polarity o Loose or faulty connections o Damaged buzzer unit 	<ul style="list-style-type: none"> o Verify power supply is active. o Check power supply voltage is within 3V-24V. o Ensure red wire is connected to (+) and black to (-). o Inspect all wire connections for security. o If all above are correct, the buzzer may be faulty and require replacement.
Weak or intermittent sound	<ul style="list-style-type: none"> o Voltage too low (below 3V) o Loose connection o Partial damage to buzzer 	<ul style="list-style-type: none"> o Ensure voltage is within the optimal range (e.g., closer to 12V-24V for full loudness). o Check and secure all wiring connections. o Consider replacing the buzzer if the issue persists.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact your retailer. You may also visit the official uxcell brand store for additional product information and support resources.

uxcell Brand Store: <https://www.amazon.com/stores/uxcell/page/9C5CFA37-6CB6-400F-AA4A-658A763458C5>