

Walrusled ZL-NSBLP36-4FT-CE

Walrusled ZL-NSBLP36-4FT-CE 4FT LED Wraparound Emergency Stairwell Light User Manual

Model: ZL-NSBLP36-4FT-CE | Brand: Walrusled

1. INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of your Walrusled 4FT LED Wraparound Emergency Stairwell Light (Model: ZL-NSBLP36-4FT-CE). Please read this manual thoroughly before installation and retain it for future reference. Proper installation and adherence to these instructions are crucial for optimal performance and safety.

Safety Information

- Always turn off power at the circuit breaker before installation, maintenance, or servicing.
- Installation should be performed by a qualified electrician in accordance with national and local electrical codes.
- Do not attempt to modify or disassemble the fixture. There are no user-serviceable parts inside.
- Ensure the fixture is securely mounted to prevent falling.
- This product is designed for indoor and outdoor use (IP20 rated, meaning protected against solid objects over 12.5mm, but not against water).

2. PRODUCT FEATURES

- **Power Selectable:** Choose between 20W (2500lm) or 40W (5000lm) to suit different lighting needs.
- **Built-in Battery Backup:** Provides over 200 minutes of emergency lighting (5W output) during power outages. Features a LiFePO4 battery (6.4V/3000mAh) with a lifespan of over 3 years.
- **Emergency Test Switch:** Includes a touch test switch and indicator lights for easy monitoring of battery status.
- **High Performance:** Constructed with a premium metal base for excellent heat dissipation and a milky PC cover for uniform, comfortable light.
- **Wide Beam Angle:** 120-degree beam angle ensures optimal light distribution.
- **Energy Efficient:** Up to 125lm/w high lumen efficiency, saving up to 75% energy.
- **Long Lifespan:** Over 54,000 hours of maintenance-free operation.
- **Multiple Mounting Options:** Supports surface mount, flush mount, and hanging mount.
- **Certifications:** CE, FCC, SAA & UKCA certified for safety and reliability.

Image: Overview of the Walrusled 4FT LED Wraparound Emergency Stairwell Light, highlighting its key features such as selectable wattage, battery backup, and certifications.

3. WHAT'S IN THE BOX

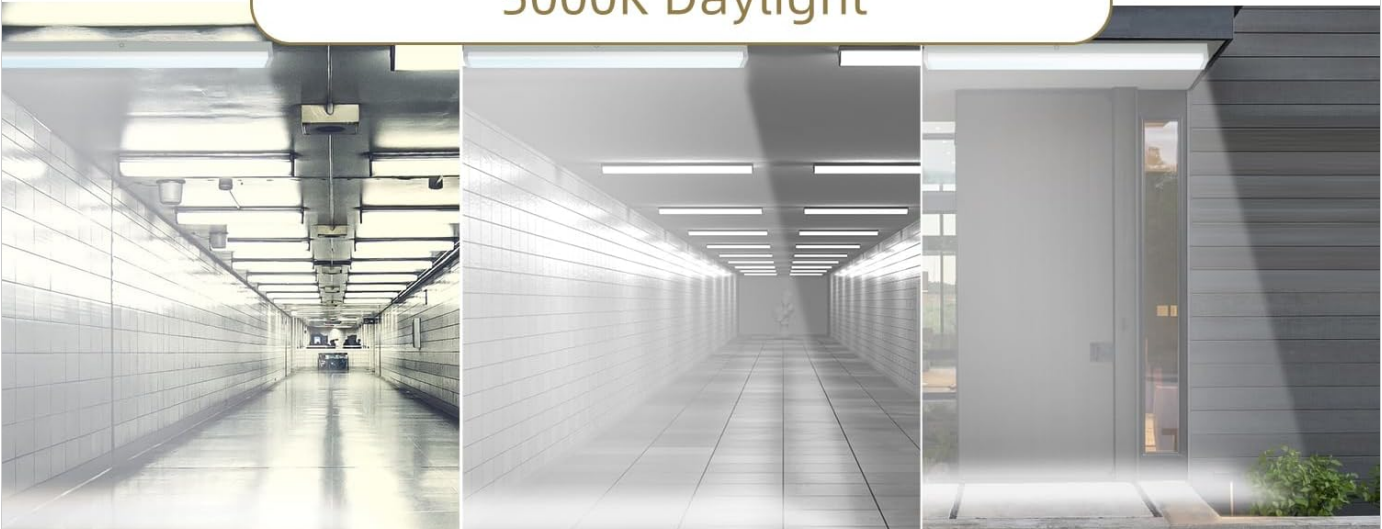
Carefully unpack the box and ensure all components are present and undamaged. If any items are missing or damaged, please contact customer support.

- LED Wraparound Emergency Stairwell Light Fixture
- Mounting Hardware (screws, wall plugs, hanging ropes/discs for hanging mount)
- Instruction Manual



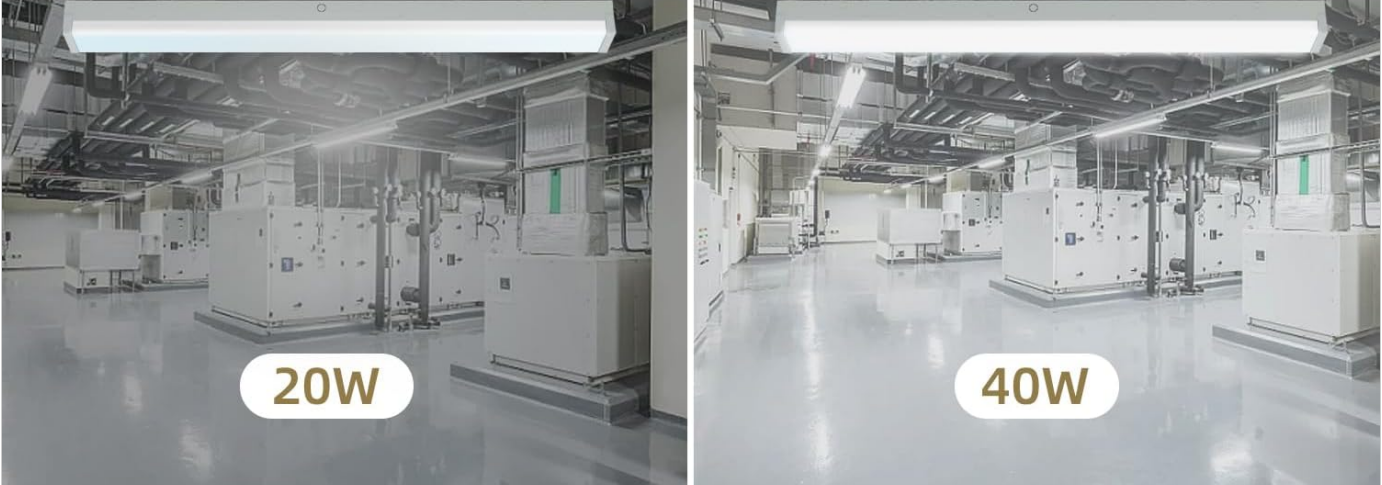
2 IN 1 LED WRAPAROUND LIGHT

5000K Daylight



5000K

2 Wattage Changeable



20W

40W

Image: Diagram illustrating the product dimensions and the included mounting accessories for quick and easy installation.

4. SPECIFICATIONS

Feature	Specification
Model Name	ZL-NSBLP36-4FT-CE
Brand	Walrusled
Size	4FT (49.21"L x 4.33"W x 3.45"H)
Wattage	20W / 40W Selectable
Brightness	2500lm (20W) / 5000lm (40W)
Color Temperature	5000K (Noon White)
Voltage	100-277V (AC)
Emergency Output	5W
Emergency Duration	Over 200 minutes
Battery Type	LiFePO4 6.4V/3000mAh
Charging Time	16 to 24 hours
Material	Metal, Polycarbonate
IP Rating	IP20
Lifespan	Up to 54,000 hours
Certifications	CE, FCC, SAA, UKCA

5. SETUP AND INSTALLATION

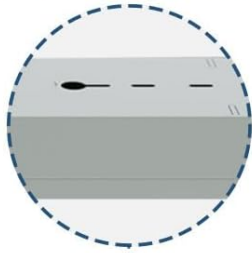
Important: Ensure power is OFF at the circuit breaker before beginning installation.

General Overview



Focus On The Lighting Industry For 20 Years

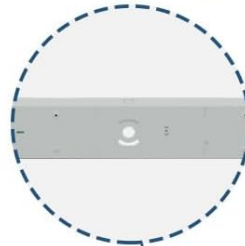
Keyholes for Fixing Housing



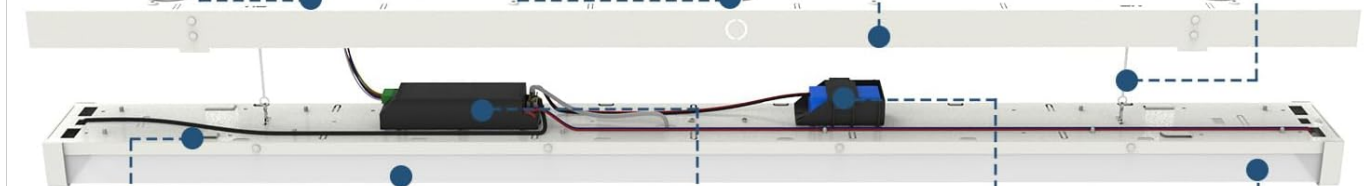
Compatible with
Standard 4" Junction Box



Steel Construction Housing
with Coating



Safety Sling to
Prevent Falling



Easy to Install
Bracket Design



Long-life LEDS High Luminous
Efficiency 125 LM/W



Plug-in Connector &
Wide Voltage LED Driver
with Lumen Switch



3000mAh Backup Battery
(Emergency Only)



Anti-UV & Heat-
resistant PC Cover

Image: Exploded view of the fixture, detailing components such as the LED strips, battery, microwave sensor, and driver.

Wiring Methods

There are two primary wiring methods: Emergency Wiring (controlled by external wall switch or always ON) and Non-Emergency Wiring. Refer to the diagram below for correct connections.



TEST BUTTON BATTERY BACKUP WIRING METHOD

By pressing the test button, you can enable simulated emergency testing function, forced self-test, restore to default setting, switched off luminaire when under emergency mode and other test functions.

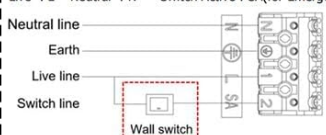
A built-in backup battery provides over 5-hours of reserve power for outages. The adjustable LED linear strip batten light fixture immediately go on when the power goes off, and the battery charges/discharges automatically while power is on or off.

There are two wiring methods. The first method is to divide the L (UA) wiring into two wires, and connect one wire to the SA terminal through the switch. Light fixture will be control by external wall switch. The second method is to short-circuit L and SA with a short wire. Light fixture will be 7 x 24h ON.

Wiring instruction

Live : L Neutral : N Switch Active : SA(for Emergency only) Earth : 

Installation accessories : Short Wire



Emergency Luminaire wiring ①
(Light will be control by external wall switch)



(Short-circuit L and SA with provided short wire)
Emergency Luminaire wiring ②
(Light will be 7 x 24h ON)



3000mAh

Lithium Phosphate Battery

Mounting Options

The fixture supports surface mount, flush mount, and hanging mount installations. Mounting accessories are included.

1.Surface Mount

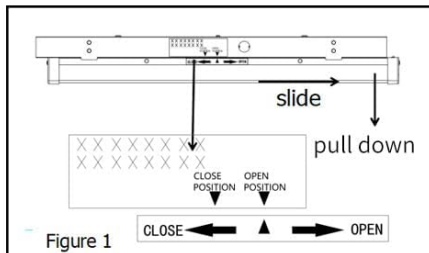


Figure 1

Step 1:
Check the OPEN-CLOSE mark on the side of the luminaire after taking out and pull down the OPEN direction mark (→OPEN) end of the luminaire body at meanwhile slide luminaire body along the OPEN arrow direction (→OPEN) to move the position mark (Δ) to the OPEN Position which marked on the luminaire bracket, the luminaire bracket will separate from the luminaire (Figure 1).

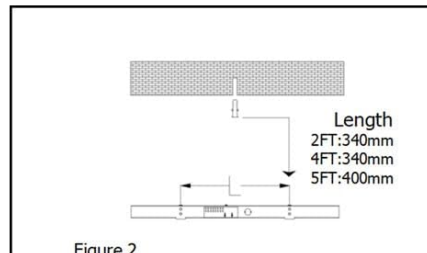


Figure 2

Step 2:
Drill 6mm holes on the ceiling in the corresponding positions according to different distance of luminaire bracket fix holes, insert M6 wall plugs into the holes (Figure 2).

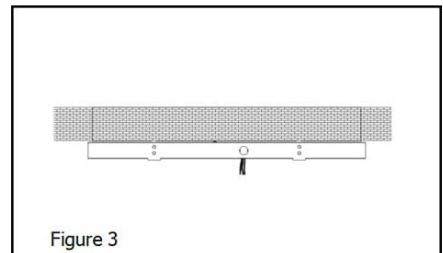


Figure 3

Step 3:
Pull the power cable into the luminaire bracket from cable entry hole and secure the luminaire bracket to the ceiling with the provided M4 screws (Figure 3).

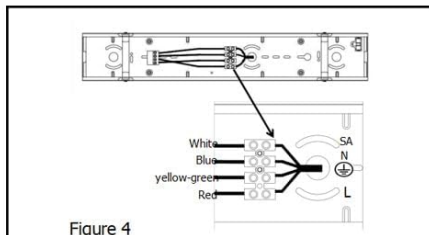


Figure 4

Step 4:
Connect the power cable which pulled into bracket according to right wires sequence to terminal block on luminaire bracket.

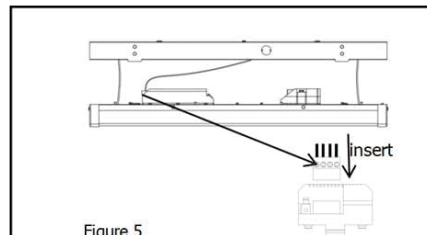


Figure 5

Step 5:
Secure the luminaire body to bracket with the slings which pre-fixed on the luminaire bracket and insert the female connector to male connector on driver (Figure 5).

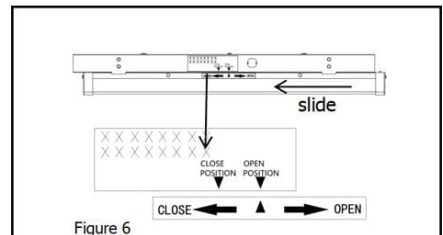


Figure 6

Step 6:
Push the luminaire body up and align the position mark (Δ) on the luminaire body with OPEN Position mark (▽ OPEN Position) on the luminaire bracket, meanwhile slide luminaire body along the CLOSE arrow direction (CLOSE←) to move the position mark (Δ) to CLOSE Position mark (▽ CLOSE Position) on the luminaire bracket, the luminaire body will lock with the luminaire bracket (Figure 6).

2.Suspension Mount

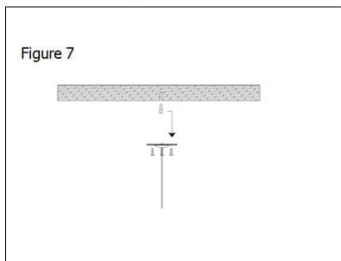


Figure 7

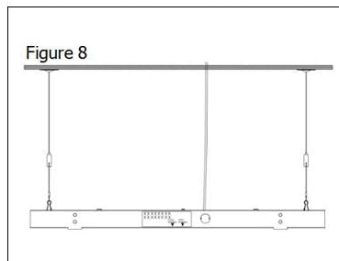


Figure 8

Step 1: Refer to the 1 step of Surface Mount.

Step 2: Drill 6mm holes on the ceiling in the corresponding positions according to disc holes position of hanging rope, insert M6 wall plugs into the holes, then fix hanging rope disc to ceiling with the provided M4 screws (Figure 7).

Step 3: Suspend the luminaire bracket with hooks on the hanging ropes and pull the power cable into the luminaire bracket from cable entry hole (Figure 8).

Step 4: Refer to the 4, 5, 6 steps of Surface Mount.

⚠ Warning: Turn off the power before installation

Image: Step-by-step visual guide for surface and suspension mounting.

Surface Mount Installation

1. Drill 6mm holes on the ceiling at the corresponding positions for the luminaire bracket.
2. Insert M6 wall plugs into the drilled holes.
3. Pull the power cable into the luminaire bracket through the cable entry hole.
4. Secure the luminaire bracket to the ceiling using the provided M4 screws.
5. Connect the power cable to the terminal block on the luminaire bracket according to the correct wire sequence (N, L, Earth, SA).
6. Secure the luminaire body to the bracket using the slings reserved on the bracket.
7. Insert the female connector to the male connector on the control gear.
8. Push the luminaire body up and align the position mark (triangle) on the luminaire body with the OPEN position mark (inverted triangle) on the luminaire bracket.
9. Slide the luminaire body along the CLOSE arrow direction to move the position mark (triangle) to the CLOSE position mark (inverted triangle) on the luminaire bracket.
10. Rotate the iron plate to the vertical position and tighten the screw to secure the fixture.

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Video: Demonstration of the surface mount installation process for the Walrusled LED light fixture.

Hanging Mount Installation

1. Mark the positions for the hanging rope discs on the ceiling.
2. Drill 6mm holes at the marked positions.
3. Insert M6 wall plugs into the holes.
4. Fix the hanging rope discs to the ceiling with the provided M4 screws.
5. Suspend the luminaire bracket using the hooks on the hanging ropes.
6. Pull the power cable into the luminaire bracket through the cable entry hole.
7. Follow steps 5-11 of the Surface Mount Installation for wiring and securing the luminaire body.

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Video: Demonstration of the hanging mount installation process for the Walrusled LED light fixture.

6. OPERATING INSTRUCTIONS

Power and Lumen Selection

The fixture allows you to select between 20W (2500lm) and 40W (5000lm) output. This is typically done via a DIP switch located on the driver inside the fixture. Refer to the installation section for accessing the internal components.

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Video: Instructions on how to adjust the power mode (full or half power) using the internal DIP switch.

Emergency Function and Indicators

The fixture includes a built-in battery backup for emergency lighting. The status of the emergency function is indicated by LED lights on the fixture.

- **Red LED Indicator:** ON = Battery is charging; OFF = Battery fully charged, main supply off, or battery disconnected.
- **Green LED Indicator:** ON = Main supply is on; OFF = Main supply is off.
- **Yellow LED Indicator (Fault Indication):**
 - Continuously ON: Indicates normal operation.
 - Slow Flash (4s ON, 1s OFF): Indicates self-test passed within 6 days.
 - Fast Flash (0.5s ON, 0.5s OFF): Indicates latest self-test failed.
 - OFF: Main supply off.

Test Button Functions

The test button allows you to check the emergency functions:

1. **Simulated Emergency Test:** Press and hold the test button for more than 1.5 seconds. The luminaire will simulate a main power failure and enter emergency mode. Release the button to return to previous status.
2. **Force Self-Test:** Press and hold the test button for more than 10 seconds. The luminaire will perform a self-test. Release the button to return to previous status until the self-test is finished. The yellow LED indicator will show the self-test result.
3. **Reset to Pre-settings:** Press the test button 3 times within 3 seconds. All three LED indicators will flash 3 times synchronously, and the luminaire will enter default pre-settings mode.
4. **Switch Off Luminaire in Emergency Mode:** Within 30 minutes after main power failure, press the test button 3 times in 3 seconds to switch off the luminaire.

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Video: Detailed instructions on using the emergency test button and understanding the LED indicators.

Sensor Settings (For models with sensor)

If your model includes a sensor, settings can be adjusted via a remote controller or internal DIP switches. Refer to the specific instructions for your sensor type.

Remote Controller Settings

Parameters are successfully set when the luminaire flashes once after the corresponding button on the remote controller is pressed.

- **Detection Sensitivity:** Set to 25%, 50%, 75%, or 100% (0.5-1m, 1-2m, 3-4m, 4-6m detection areas respectively).
- **Hold Time:** The duration the luminaire remains at 100% brightness after motion ceases (e.g., 5s, 30s, 90s, 180s, 5min, 10min, 20min, 30min).
- **Twilight Brightness Percentage:** Set the percentage of full brightness when the luminaire dims to twilight (e.g., 20%, 40%, 60%, 100%).
- **Twilight Stand-by Time:** The duration the luminaire remains at twilight before switching off (e.g., 0s for direct switch off, 30s, 90s, or infinity for always keeping twilight).
- **Light Sensor Threshold:** The ambient lumen value at which the luminaire switches off if no motion is detected (e.g., 15lux, 50lux, or infinity to disable light sensing).
- **Luminaire State:** ON/OFF for constant on/off mode; Auto for sensor dimming with default parameters (100% sensitivity, 30s hold time, 20% twilight brightness, infinity twilight stand-by time).

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Video: Guide to setting sensor parameters using the remote controller, including sensitivity, hold time, and twilight settings.

Alternative Sensor Settings (DIP Switch)

For some models, sensor data can be precisely set using DIP switches located on the sensor module. Refer to the diagram for specific combinations.

- **Detection Area (Sensitive):** Adjustable from 20% to 100% using DIP switches 1 and 2.
- **Hold Time (Delay Time):** Adjustable from 5s to 10min using DIP switches 3 and 4.
- **Twilight Ratio:** Adjustable from 20% to 100% using DIP switches 5 and 6.
- **Twilight Time (Hold Time for 2-step dimming sensor):** Adjustable from 0s to infinity using DIP switches 7 and 8.

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Video: Explanation of alternative sensor settings using DIP switches for detection area, hold time, twilight ratio, and twilight time.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your LED fixture.

- **Cleaning:** Clean the fixture regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the finish or electrical components.
- **Inspection:** Periodically inspect the fixture for any signs of damage, loose connections, or wear. If any issues are found, disconnect power and contact a qualified electrician or customer support.
- **Emergency Battery Check:** Perform the simulated emergency test function monthly to ensure the battery backup is operational. The yellow LED indicator will provide feedback on self-test results.
- **Battery Replacement:** The LiFePO₄ battery has a lifespan of over 3 years. If the emergency function duration significantly decreases or the yellow LED indicates a fault after a self-test, the battery may need replacement by a qualified technician.

8. TROUBLESHOOTING

If you encounter issues with your fixture, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Light does not turn on	No power supply, loose wiring, faulty switch, incorrect wiring.	Check circuit breaker. Verify all wiring connections are secure. Test the switch. Review wiring diagrams in Section 5.
Emergency function not working	Battery not charged, battery disconnected, faulty battery, emergency wiring issue.	Ensure main power is on for 16-24 hours to charge the battery. Check red LED indicator. Perform a force self-test (Section 6). Verify emergency wiring.
Light flickers	Unstable power supply, loose connection, incompatible dimmer (if applicable).	Check power source stability. Tighten all wiring connections. Ensure any dimmer used is LED compatible.
Sensor not detecting motion	Incorrect sensitivity setting, obstruction, faulty sensor.	Adjust sensor sensitivity (Section 6). Ensure no physical obstructions. Contact support if issue persists.
Light stays on/off unexpectedly	Incorrect hold time or twilight settings, light sensor threshold.	Review and adjust sensor settings (hold time, twilight brightness, twilight stand-by time, light sensor threshold) as per Section 6.

If the problem persists after attempting these solutions, please contact Walrusled customer support.

9. WARRANTY AND SUPPORT

Walrusled provides a one-year warranty for this product and 5-year technical support to ensure your satisfaction. If you experience any defects or require assistance, please contact our customer service team.

Contact Information: Please refer to the product packaging or the official Walrusled website for the most up-to-date contact details.

When contacting support, please have your model number (ZL-NSBLP36-4FT-CE) and purchase date readily available.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question