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Cydewhoale BM02 ICE FULLNESS SENSOR

Cydewhoale BM02 Ice Fullness Sensor Instruction Manual

Model: BM02 ICE FULLNESS SENSOR

1. Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your Cydewhoale BM02 Ice Fullness Sensor. This magnetic switch is designed to detect the ice level in commercial cube ice makers, preventing overfilling and ensuring efficient operation. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your sensor.

2. Safety Information

Always observe the following safety precautions:

- Ensure the ice machine is disconnected from the power supply before attempting any installation, maintenance, or inspection.
- Handle the sensor carefully to avoid damage to its components or wiring.
- Do not modify the sensor or its wiring. Unauthorized modifications can lead to malfunction or safety hazards.
- Keep the sensor away from excessive moisture or extreme temperatures beyond its operational limits.
- If you are unsure about any installation step, consult a qualified technician.

3. Package Contents

Verify that all items are present in the package:

- 1 x Cydewhoale BM02 Ice Fullness Sensor (Ice Bin Sensor Magnetic Switch)

4. Product Overview

The Cydewhoale BM02 Ice Fullness Sensor is a critical component for commercial cube ice makers. It functions as a magnetic switch, designed to accurately detect when the ice storage bin is full. This prevents overfilling, reduces ice machine wear, and ensures continuous, efficient operation. The sensor is compatible with various business-grade ice machines, including those from Vevor and Cotline.
Key features include:

- **Compatibility:** Designed for commercial cube ice makers, compatible with Vevor and Cotline brands.

- **Magnetic Switch:** Accurately detects ice bin fullness to prevent overfilling.
- **Easy Installation:** Features a plug-and-play design for quick integration.
- **Durable Construction:** Made with high-quality materials for reliable, long-lasting performance.
- **Dimensions:** Measures approximately 6 inches in length for proper positioning.



Figure 1: Cydewhoale BM02 Ice Fullness Sensor. This image shows the main sensor unit, its white cable, and the red connector.

5. Setup and Installation

The Cydewhoale BM02 Ice Fullness Sensor is designed for straightforward installation. Follow these steps to integrate it into your commercial ice machine:

1. **Power Disconnection:** Before beginning, ensure the ice machine is completely powered off and unplugged from its electrical outlet.
2. **Locate Sensor Slot:** Identify the designated slot or mounting area for the ice fullness sensor within your ice machine's ice bin. This is typically located near the top of the ice bin, where the ice level is to be monitored. Refer to your ice machine's specific manual if unsure.
3. **Mount the Sensor:** Carefully insert the sensor unit into the designated slot. The magnetic switch component should be

positioned to detect the presence of ice. Ensure it is securely seated and does not obstruct ice flow.

4. **Connect Wiring:** Route the sensor's cable to the control board or designated sensor port on your ice machine. Connect the red connector securely. The "plug-and-play" design means it should fit directly into the appropriate receptacle.



Figure 2: Side view of the sensor, illustrating its compact design for easy placement.

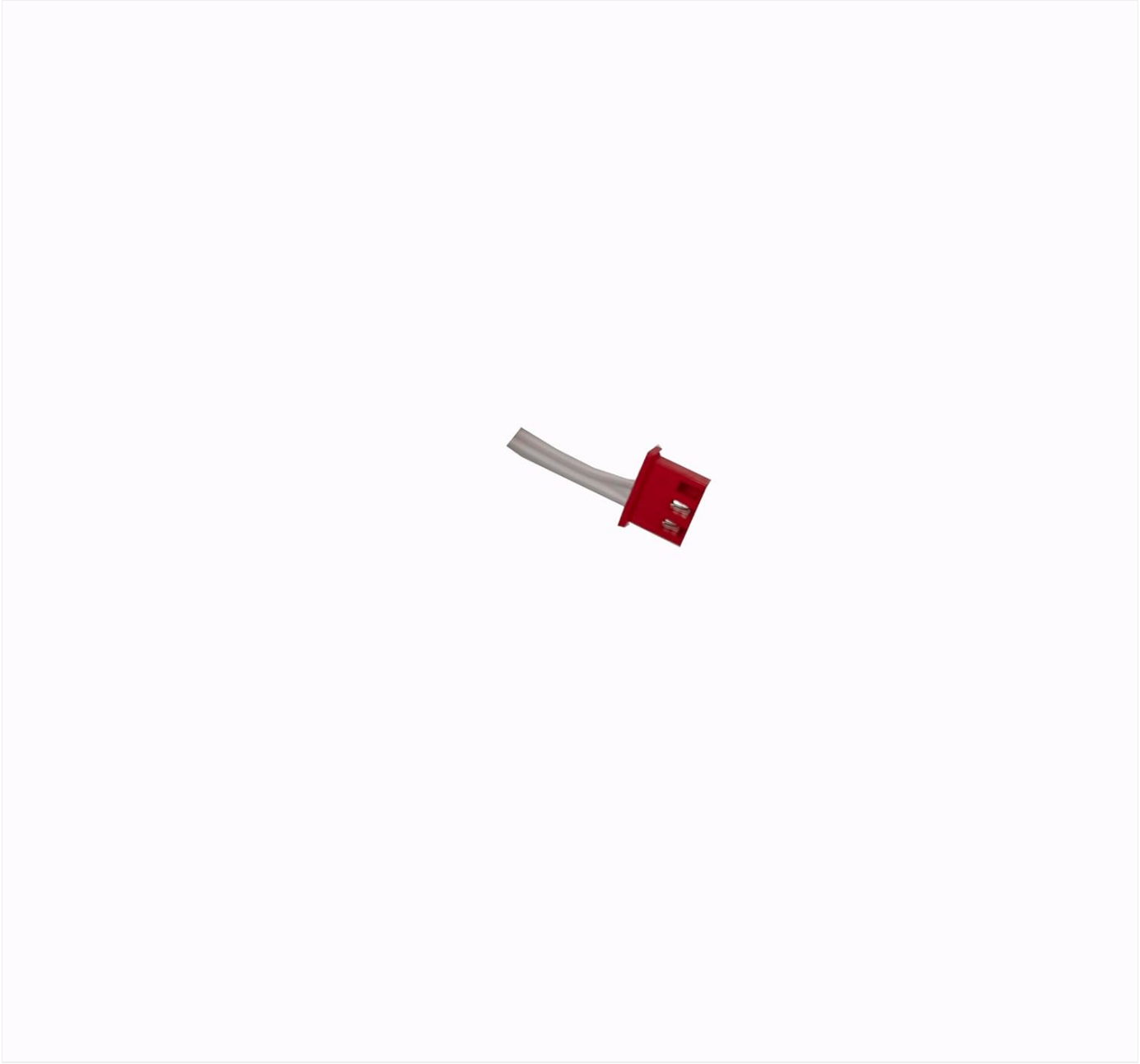


Figure 3: Detail of the sensor's red connector, designed for secure electrical connection.

5. **Secure Cabling:** Ensure the cable is routed safely, away from moving parts, heat sources, or areas where it could be pinched or damaged.
6. **Power On and Test:** Once the sensor is securely installed and connected, plug the ice machine back into the power outlet and turn it on. Monitor the ice production cycle to confirm the sensor correctly detects ice levels and signals the machine to stop production when the bin is full.

6. Operation

The Cydewhoale BM02 Ice Fullness Sensor operates automatically once installed. When ice accumulates in the bin and reaches the sensor's detection point, the magnetic switch activates. This signal is sent to the ice machine's control system, which then pauses ice production. Once the ice level drops below the sensor's detection point (due to ice being dispensed), the sensor deactivates, signaling the machine to resume ice production. This cycle ensures a consistent supply of ice without overfilling the bin.

7. Maintenance

Regular maintenance helps ensure the optimal performance and longevity of your ice fullness sensor:

- **Cleaning:** Periodically inspect the sensor for any ice buildup, mineral deposits, or debris. Gently clean the sensor surface with a soft, damp cloth. Avoid abrasive cleaners or harsh chemicals. Ensure the ice machine is unplugged before cleaning.
- **Inspection:** Check the sensor's wiring and connections for any signs of wear, fraying, or looseness. Ensure the sensor remains securely mounted in its position.
- **Functionality Check:** During normal operation, observe if the ice machine correctly pauses and resumes ice production based on the ice level in the bin.

8. Troubleshooting

If you encounter issues with your Cydewhoale BM02 Ice Fullness Sensor, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Ice machine overfills bin	Sensor not detecting ice; sensor faulty; wiring issue.	• Check sensor position and ensure it's not obstructed. • Inspect wiring for secure connection and damage. • Clean sensor surface. • If issues persist, the sensor may need replacement.
Ice machine stops prematurely or doesn't make ice	Sensor falsely detecting full bin; wiring issue.	• Ensure no debris is falsely triggering the sensor. • Inspect wiring for secure connection and damage. • Verify the sensor is correctly mounted and not bent. • If issues persist, the sensor may need replacement.
Sensor appears loose or damaged	Improper installation; physical impact.	• Re-secure the sensor in its mounting slot. • If physically damaged, replace the sensor.

For problems not listed here or if solutions do not resolve the issue, please contact customer support.

9. Specifications

Feature	Detail
Model Name	BM02 ICE FULLNESS SENSOR
Brand	Cydewhoale
Product Dimensions	6"D x 5"W x 2"H (Sensor unit and cable length approx. 6 inches)
Compatibility	Commercial cube ice makers (e.g., Vevor, Cotline, Coolski)

Feature	Detail
Sensor Type	Magnetic Switch
Manufacturer	Xinrui

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your original ice machine or contact the seller directly. Keep your purchase receipt as proof of purchase.
For further assistance, you may contact Cydewhoale customer service through the retailer where the product was purchased.

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