

## Briidea 743815173193

# Briidea Hi-Lo Sump Pump Controller Instruction Manual

MODEL: 743815173193

## 1. PRODUCT OVERVIEW

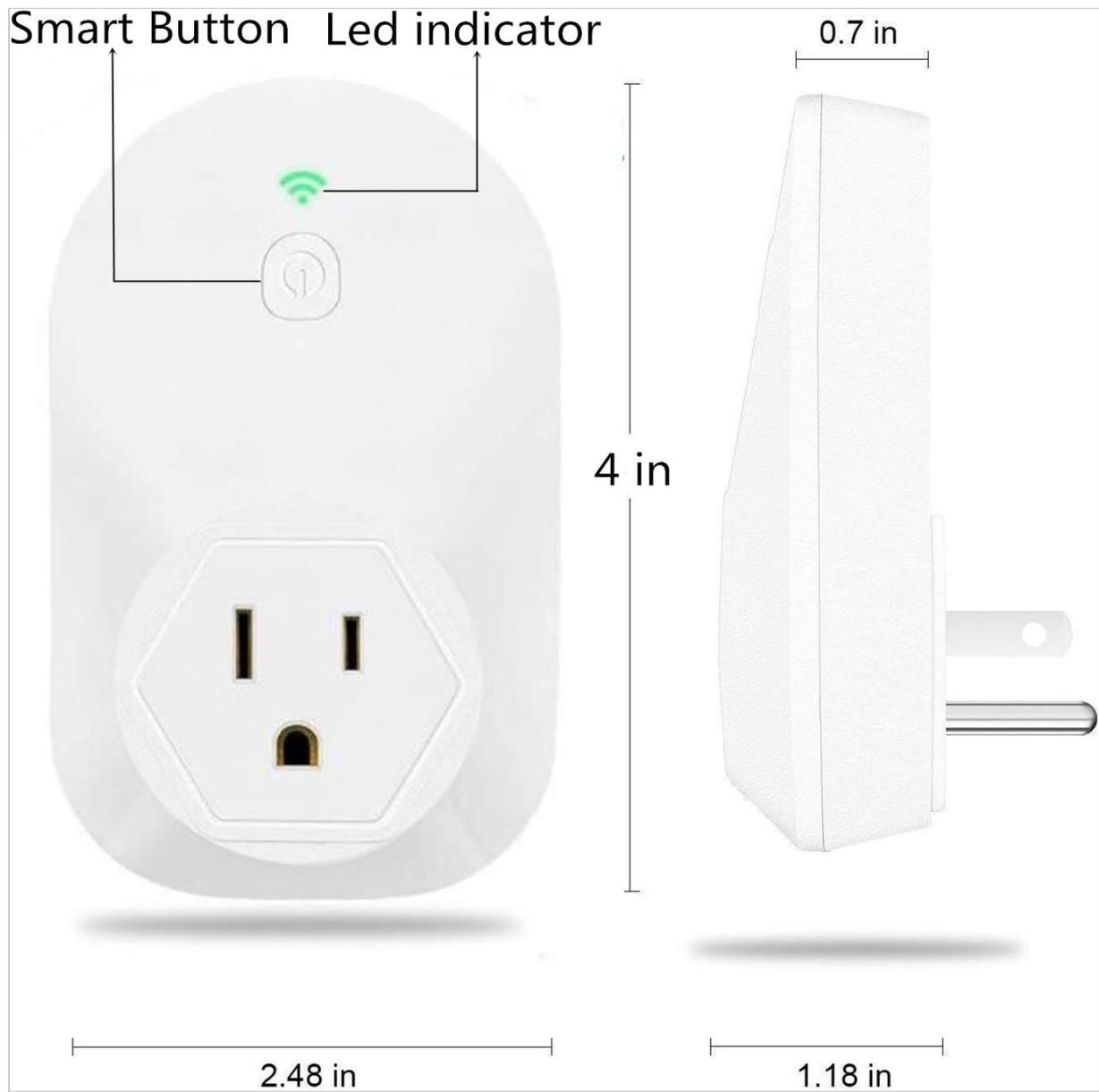
The Briidea Hi-Lo Sump Pump Controller is an electronic dual-float switch designed for use with various sump pumps and utility pumps. It offers precise control over pump activation and deactivation levels, ranging from 1/2 inch to 12 feet. This adjustability helps optimize pump run-time, saving energy and extending the pump's service life. The controller features durable stainless steel sensors and a smart button for manual operation and alarm functions.

### Key Features:

- Compatible with all sump pumps and utility pumps (up to 1HP).
- Adjustable dual float switch for precise on/off levels (1/2" to 20').
- 304 stainless steel sensors, resistant to corrosion and unaffected by mineral content or debris, requiring no cleaning.
- Reliable design with no moving parts in the pit, overcoming common mechanical float switch failures.
- Smart button for manual pump control (on/off) and an integrated alarm for pump malfunctions.

## 2. PRODUCT COMPONENTS

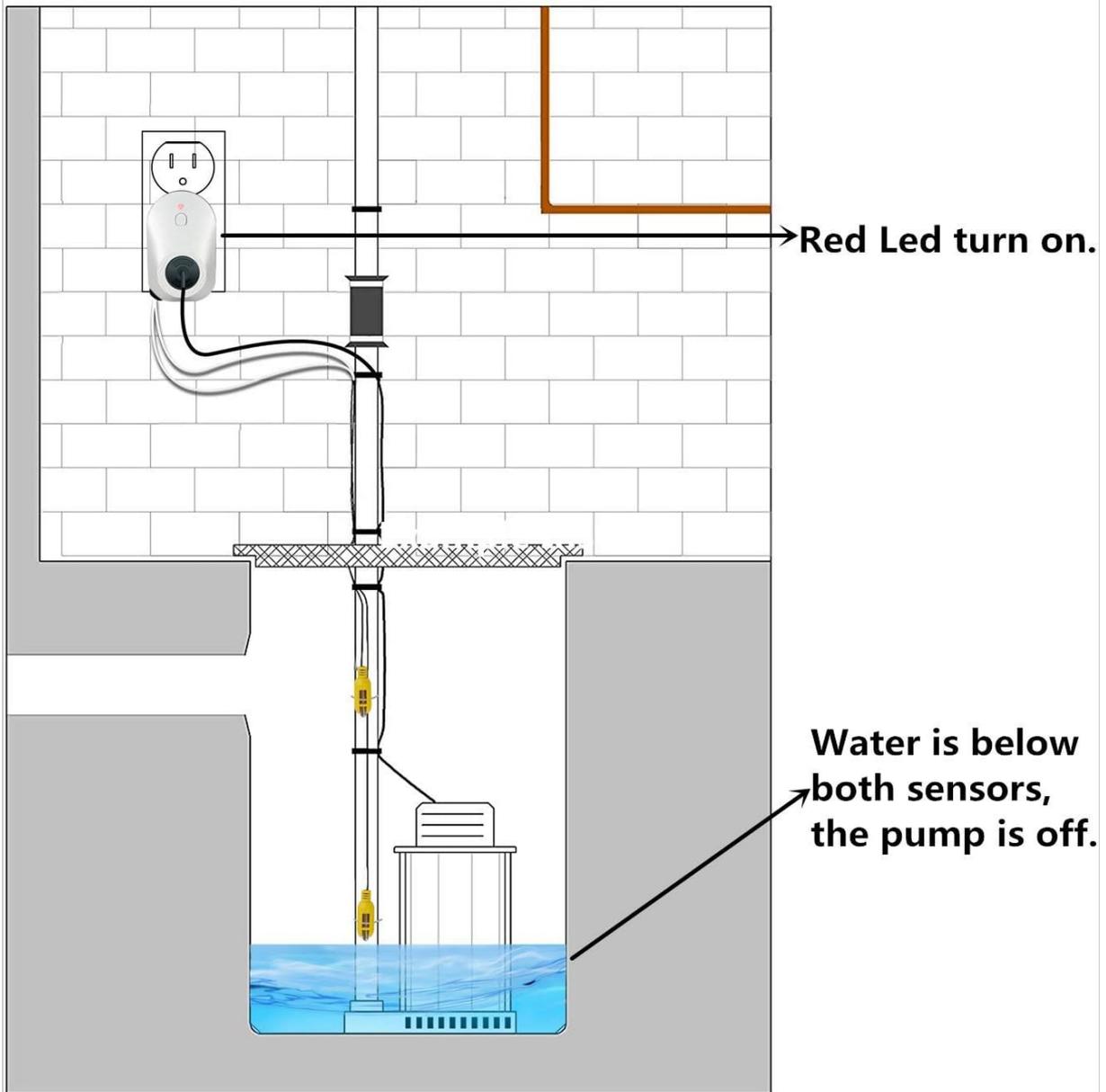
The Briidea Hi-Lo Sump Pump Controller system consists of a main control unit and a dual float switch with two sensors.



**Figure 2.1:** The main control unit, a white rectangular plug-in device, showing its smart button, LED indicator, and approximate dimensions (4 inches high, 2.48 inches wide, 1.18 inches deep).

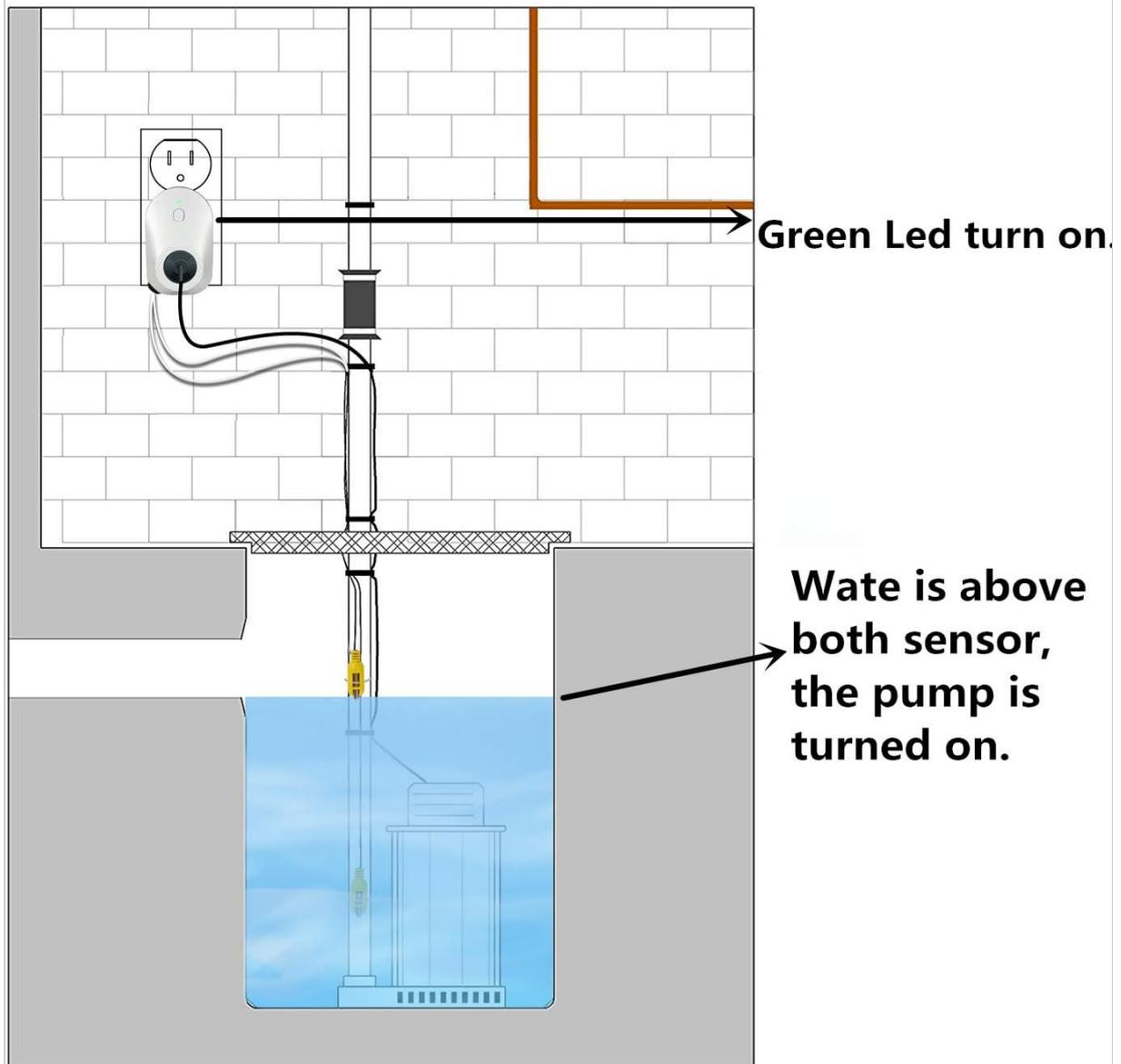


### Example Installation



**Figure 3.1:** Diagram illustrating the installation of the Briidea sump pump controller. The control unit is plugged into a wall outlet, and the dual float sensors are positioned in a sump pit. The water level is shown below both sensors, indicating the pump is off (red LED on control unit).

## Example Installation



**Figure 3.2:** Diagram illustrating the operation of the Briidea sump pump controller. The water level has risen above both sensors in the sump pit, activating the pump (green LED on control unit) to remove water.

## 4. OPERATION INSTRUCTIONS

The Briidea Hi-Lo Sump Pump Controller operates based on the water levels detected by its two sensors:

1. When the water level is below both sensors, the pump remains off.
2. As the water rises and reaches the high sensor, the pump is automatically turned on.
3. The pump continues to run while the water level is between the high and low sensors.
4. The pump turns off once the water level drops below the low sensor.

### Smart Button Functionality:

The control unit features a smart button for manual control and status indication:

- **Manual On/Off:** Press the smart button to manually turn the pump on or off as needed.
- **LED Indicator:** The LED on the control unit indicates the pump's status (e.g., red for off, green for on).
- **Alarm Function:** The controller is equipped with an alarm that sounds if the pump is not operating correctly, helping to prevent potential water damage.

## 5. MAINTENANCE

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The Briidea Hi-Lo Sump Pump Controller is designed for minimal maintenance:

- The 304 stainless steel sensors are resistant to corrosion and are not affected by mineral deposits or debris in the water. Therefore, they do not require regular cleaning under normal operating conditions.
- Periodically inspect the sensor cables and connections for any signs of wear or damage.
- Ensure the control unit is securely plugged into the wall outlet and that the pump's power cord is firmly connected to the controller.

## 6. TROUBLESHOOTING

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If you encounter issues with your Briidea Hi-Lo Sump Pump Controller, consider the following:

- **Pump Not Activating:**
  - Check if the control unit is powered and the LED indicator is on.
  - Verify that the water level has reached the high sensor.
  - Ensure the pump is properly plugged into the controller and is in working condition (test by plugging directly into an outlet if possible).
  - Inspect sensor cables for damage or dislodgement.
- **Pump Not Deactivating:**
  - Confirm that the water level has dropped below the low sensor.
  - Check for any obstructions around the low sensor that might prevent it from detecting the lower water level.
- **Alarm Sounds:**
  - An alarm indicates a potential pump malfunction. Check the pump for blockages, overheating, or electrical issues.
  - If the pump runs for an extended period (e.g., over 20 seconds) without significant water level change, the controller may interpret this as a fault and shut off the pump, triggering the alarm. Investigate the pump's discharge line for clogs or insufficient pumping capacity.
  - Try resetting the controller by unplugging it and plugging it back in.
- **Inconsistent Operation:**
  - Ensure a good ground reference is present for proper operation.
  - Re-evaluate the sensor placement and ensure they are securely mounted and not moving.

## 7. TECHNICAL SPECIFICATIONS

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<b>Brand</b>	Briidea
<b>Model Number</b>	743815173193
<b>Power Source</b>	120V/220VAC, 50/60Hz, 16A (<1Hp)

<b>Material</b>	Stainless Steel (Sensors)
<b>Product Dimensions</b>	1"L x 1"W x 1"H (Control Unit)
<b>Item Weight</b>	0.26 Kilograms
<b>Maximum Lifting Height</b>	20 Feet (Adjustable range)
<b>Cable Length</b>	16ft (Sensor cable)

## 8. WARRANTY AND SUPPORT

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Warranty information for the Briidea Hi-Lo Sump Pump Controller is not provided within this instruction manual. Please refer to the product packaging or contact Briidea customer support for details regarding warranty coverage and technical assistance.