Manuals+

Contents

Asurity CS-2 Condensate Safety Overflow Switch

Product Information

Specifications

- Product Name: Condensate Safety Overflow Switch CS-2
- Features: Proven Float Design, Removable Assembly, LED Light Indicator
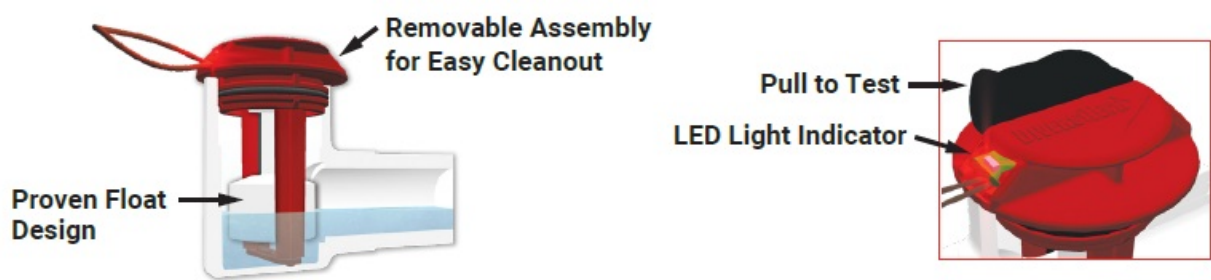- Max Control Voltage: 24VAC 1.5A

Product Usage Instructions

- Thread the threaded bushing into the drain pan outlet.
- Glue the threaded bushing into the pipe elbow.

- Press the sensor assembly into the pipe elbow.
- Ensure that the sensor tilt threshold is met for proper functioning.
- Refer to the provided diagram for guidance.
- Wire the sensor in series to break the control voltage.
- Test functionality using the Pull To Test lever.
- Confirm that the LED is on when the lever is up.
- To prevent issues, regularly clean the float and housing with a mild dish soap solution and a soft brush.
- Avoid harsh chemicals or abrasive materials when cleaning.

Condensate Safety Overflow Switch for Primary Drain Pans

- Cuts power to the air conditioning system when a clog or backup occurs, preventing water damage

Installation Instructions

STEP 1: On The Drain Pan

- Thread the threaded bushing (3) into the drain pan outlet. Glue the threaded bushing (3) into the pipe elbow (2). Firmly press the sensor assembly (1) into the pipe elbow. (Refer to FIG. A.)
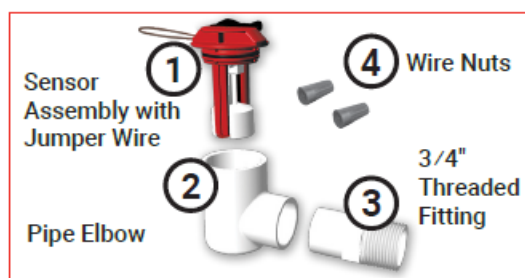

FIG. A: PRODUCT COMPONENTS

STEP 2: Ensure Sensor Tilt Threshold is Met

- Do not glue the sensor assembly onto the pipe. Ensure that the sensor is not tilted more than 30°. (Refer to FIG. B.)
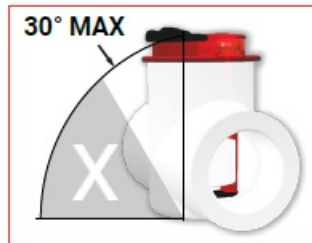
FIG. B: SENSOR TILT THRESHOLD

STEP 3: Verifying Correct Installation

- The sensor can be wired in series to break the control voltage (typically either the red or yellow wires. (Refer to FIG. C). Max current: 1.5 amp.
- Use the "Pull To Test" lever to test functionality and confirm that LED is on when the lever is up. Press down on the "Pull To Test" lever to ensure that it is flush with the housing. (Refer to FIG. D)
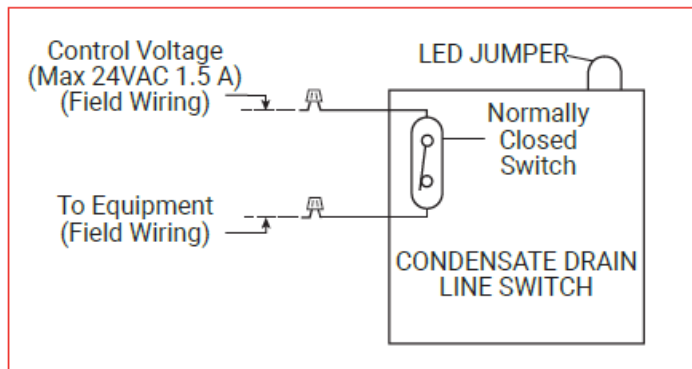

FIG. C: WIRING DIAGRAM

FIG. D: USING "PULL TO TEST" LEVER

SHUTDOWN TESTING MUST BE PERFORMED FOR EACH INSTALLATION TO ENSURE PROPER SWITCH OPERATION

IMPORTANT INFORMATION REGARDING THE JUMPER WIRE

- The CS-2 uses a very small current to light the LED
- Some HVAC systems will not shut down when the CS-2 LED is illuminated
- In the event the HVAC system does not shut down when verifying installation (Step 3), cut the jumper wire and insulate both ends with either wire nuts or electrical tape (Refer to Fig. E)
- Cutting the LED jumper will disable the LED
- Once the jumper wire is cut and insulated, repeat Step 3 by pulling the "Pull to Test" lever again to verify proper shutdown
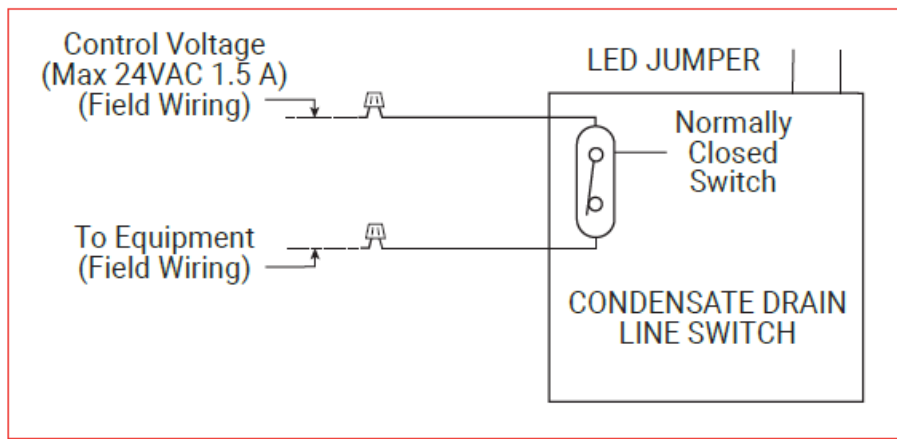
FIG. E: WIRING DIAGRAM WITH CUT JUMPER WIRE

Maintenance & Troubleshooting

- Algae and mold growing inside the condensate drain line can restrict the movement of the float inside the housing.
- It is recommended to clean the float and housing with a mild dish soap solution and a soft or medium brush.
- Do not use vinegar, bleach, acetone, gasoline, or any other harsh or corrosive chemicals to clean the float or housing.
- Do not use wire brushes, steel wool, or any other abrasive materials to clean the float or housing.

If the LED light indicator is illuminated and the HVAC system will not turn on, try the following

- Check and confirm that water is flowing freely through the drain line. Clear any clogs.
- Remove the switch assembly and confirm that the float moves freely inside the housing.
- If algae growth has blocked the movement of the float, clean it with a brush using a mild solution of water and dish soap.
- Press down on the "Pull To Test" lever to ensure that it is flush with the housing.

The CS-2 has an industry-leading 3-year warranty. Visit our website for full warranty information:
asurityhvacr.com
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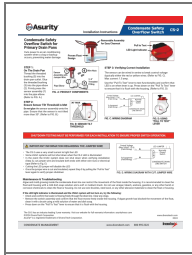
CONTACT

- CONDENSATE MANAGEMENT
- **www.diversitech.com** 800.995.2222

FAQ

- **Q: What should I do if the LED light does not turn on during testing?**
  - **A:** Ensure correct wiring according to the provided diagram. Check for any obstructions in the sensor assembly.
- **Q: Can I use corrosive chemicals to clean the float and housing?**
  - **A:** No, avoid using vinegar, bleach, acetone, gasoline, or any harsh chemicals. Stick to a mild dish soap

solution for cleaning.

Documents / Resources

 Asurity CS-2 Condensate Safety Overflow Switch [**pdf**] Instruction Manual
CS-2, CS-2 Condensate Safety Overflow Switch, Condensate Safety Overflow Switch, Safety Overflow Switch, Overflow Switch, Switch

References

- ➚ **Home**
- **User Manual**