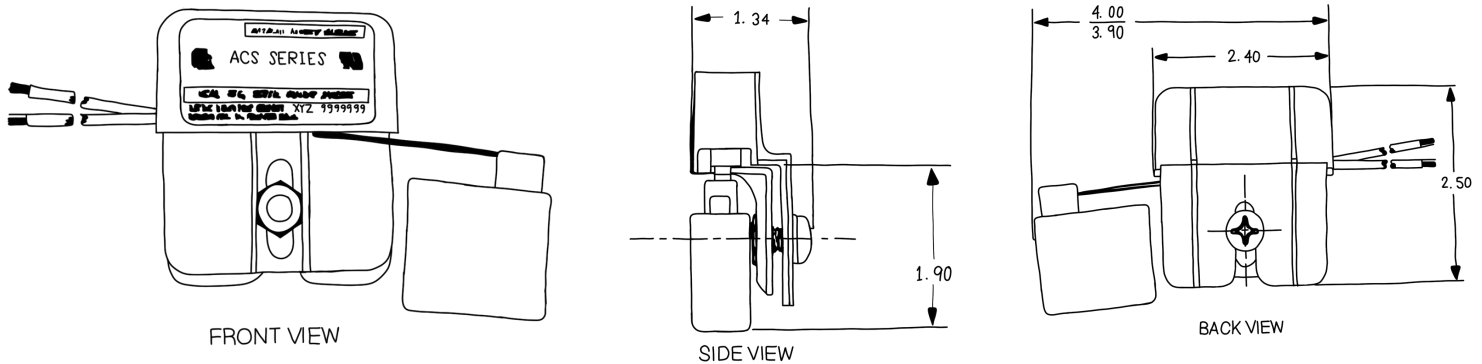




SUPPLYING DEMAND®

AUXILIARY CONDENSATE SWITCH SD599122

IMPORTANT: Unplug your appliance and turn off power at the breaker before servicing. If you have doubts or are unfamiliar with this type of installation work, seek the services of a qualified Service Technician. Supplying Demand assumes no responsibility for the improper installation of this product.



INTRODUCTION

This Auxiliary Condensate Switch is designed to be installed in the condensate drip pan of an air conditioning or refrigeration unit. The ACS when properly installed will turn off the air conditioning or refrigeration unit if the condensate level in the condensate drain pan approaches overflow. The ACS is an SPDT switch in an ABS housing and is supplied with 18 AWG leads, a mounting screw, a sealing washer, and a nut. The ACS may be wired in a "normally open" or "normally closed" position.

The switches are carefully packaged, inspected, and tested to ensure safe operation and delivery. When you receive your switch, examine it carefully to determine that there are no parts missing or damaged during shipping.

Read all instructions carefully and thoroughly before attempting to install, operate, or service this Auxiliary Condensate Switch. Know the switch applications, limitations, and potential hazards. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage. Retain instructions for future reference.

SAFETY GUIDELINES

1. Do not use with flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in explosive atmospheres. Switch should only be used with water. (Note: This is not a submersible switch)
2. Do not handle switch with wet hands or when standing on a wet or damp surface, or in water.
3. Disconnect all electrical service to the switch before working on or handling the unit.
4. Do not connect to voltage and/or amperage above that indicated on nameplate.
5. Do not operate unless completely assembled.
6. In any installation where property damage and/or personal injury might result from an inoperative switch due to power outages, or any other reason, a backup system and/or alarm should be used.

INSTALLATION

STEP 1: Refer to the air conditioning or refrigeration unit's Operating Manual during installation of the ACS switch.

STEP 2: Disconnect power to the air conditioning or refrigeration unit - both the main power and the low voltage thermostat circuit.

STEP 3: All the switches are factory wired "normally closed". This configuration will open (break) an electrical circuit when the switch is activated by a high water level.

STEP 4: If the "normally open" configuration is required, remove the switch cover by sliding it up and off of the switch housing. Carefully remove the switch and change the lower lead wire from terminal marked "NC" to terminal marked "NO". Carefully replace the switch and reinstall the switch cover. Test the operation of the switch to confirm "normally open" operation.

STEP 5: Plug the drain hole of the condensate drain pan. Temporarily position the ACS in the desired location without the screw, nut, or sealing washer so that the switch housing and switch cover are against the drain pan wall (refer to Fig. 2). Start filling the drain pan with water until the float lifts up and activates the switch. Make sure that the water level does not approach or overflow the drain pan. There will need to be a sufficient gap (usually 3/4") between the highest water level required to activate the switch and the top of the drain pan (see Fig. 4). Confirm the float can travel its full range with no obstructions.

STEP 6: Before removing the pre-assembled ACS, mark a position for the mounting hardware. Unplug the drain hole of the condensate drain pan and allow the water to drain out completely. Drill a 9/32" diameter hole for the mounting hardware to pass through the drain pan.



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STEP 6 CONTINUED: The hole must be drilled above the highest water level obtained during testing in Step 5, and should line up with the slot on the switch cover. An appropriate sealant may be used in addition to the supplied sealing washer.

STEP 7: Mount the ACS with the sealing washer located between the drain pan wall and the switch cover as shown in (Fig. 2).

STEP 8: Connect the ACS leads in series with the low voltage thermostat circuit as specified in the unit's Operating Manual. Restore power to the air conditioning or refrigeration unit. Test the operation of the ACS by gently lifting the float until the switch is activated. The air conditioning or refrigeration unit should turn off.

STEP 9: Place the "NOTICE" label included with the ACS on the outside of the access panel in a visible location.

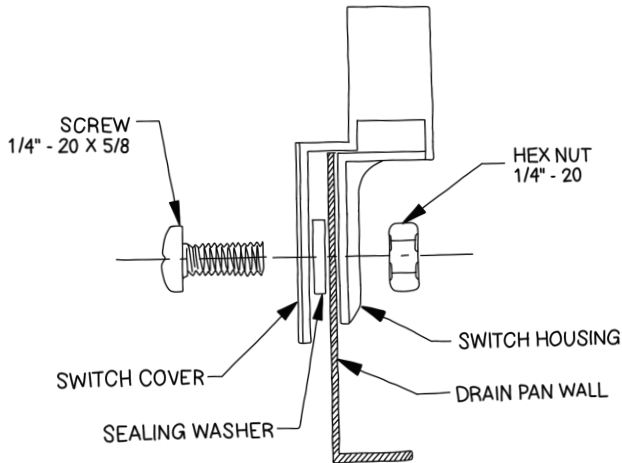


Figure 2

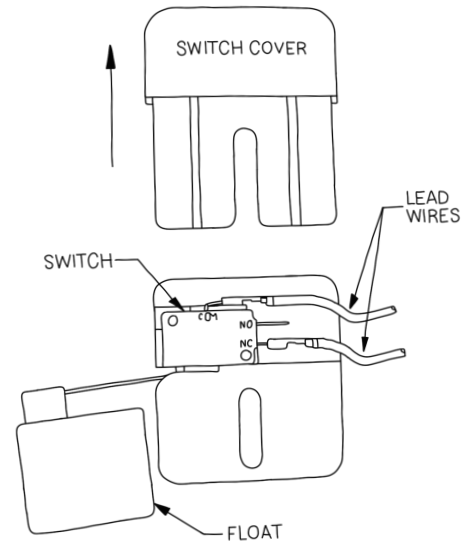


Figure 3

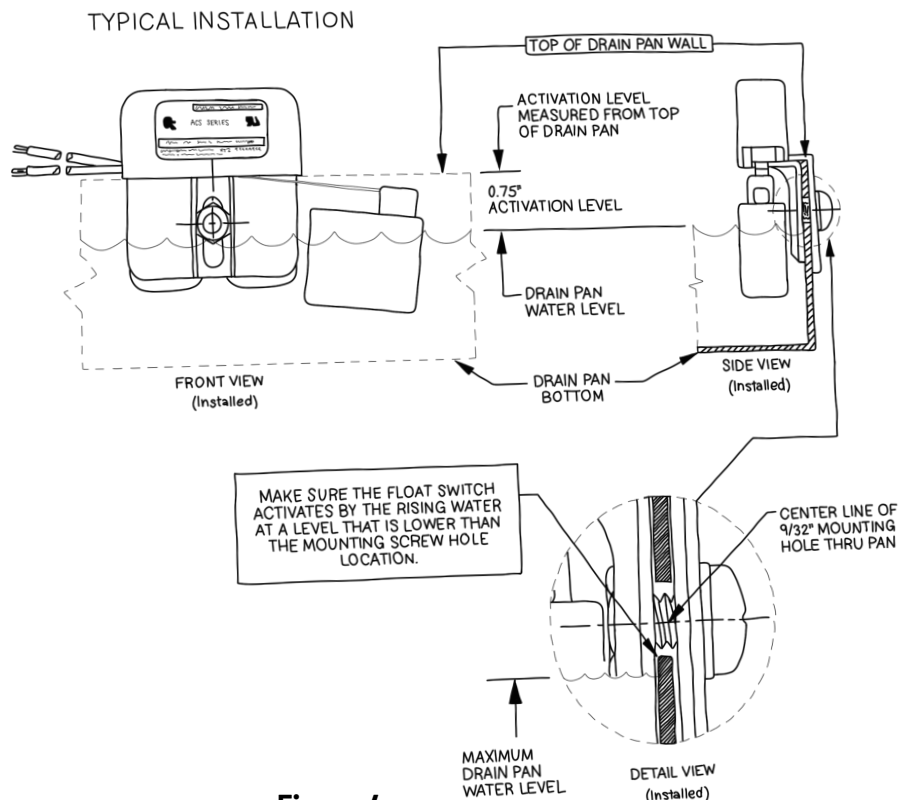


Figure 4