

Installation Instructions





The SOS Switch is a solid-state device designed to detect a clogged condition in condensate drain lines. It works by sensing when the water is near the top of the pipe that it is clamped onto and responds by opening the circuit to the compressor contractor.

Since there are not moving parts in the SOS switch, slime and sludge buildup do not affect operation until a blockage occurs. The SOS switch is triggered by a near full condition of the drainpipe and is not affected by condensation or water droplets inside of the pipe. Unlike other types of level or safety switches, the SOS does not require cutting or penetration into the pipe and does not interfere with the normal fluid flow in any way.

The SOS switch is designed for use in a series connection between the thermostat cool (Y) terminal and the compressor contactor.

The yellow light on the SOS switch is triggered by water near the top of the pipe (center sensor plate). When the SOS has been triggered, the yellow light remains on and the compressor will remain off until the high-water condition is corrected, and the power or thermostat is cycled off then on.

*For use with 24 VAC control circuits. *Always test the system after installation of any new control to ensure compatibility.

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NOTE: Pipe must be 80% or more full at the SOS location for a tripped condition to occur.

SOS-1 SPECIFICATIONS

APPLICATION:

3/4 inch SCH 40 or PSI-200 PVC Drain Lines.

Test if applying to other types of plastic drainpipes. INDICATORS:

Yellow LED indicates moisture detected.

POWER REQUIREMENTS:

Operates in series with 24 VAC contactor load. CURRENT CAPACITY:

Can operate contactor coils requiring up to 1.25 Amps LATCHING OPERATION RESET:

Remove power

Remove pipe obstruction

Reapply power

INSTALLATION

Connect the SOS Switch in series with the compressor control contactor as shown. WIRE THE DEVICE INTO THE "Y" CIRCUIT ONLY (AS NOTED IN CONNECTION DIAGRAM). WIRING IT INTO THE RED CIRCUIT OR ANY OTHER CIRCUIT COULD RESULT IN PRODUCT OR SYSTEM MALFUNCTION.

- 1. Power system off.
- 2. Cut one wire going to the compressor contactor.
- 3. Connect SOS Switch wires to the cut ends and install wire nuts.
- 4. With SOS Switch wires away from tubing, turn system on.
- 5. Compressor should operate normally.
- 6. Test switch by pressing the Push To Test button. Compressor will shut off and yellow light on SOS Switch will illuminate.
- 7. Snap the SOS Switch on a convenient location on the PVC condensate drain line (or install the included pipe adapter into the secondary overflow drain hole) and snap the SOS Switch onto the adapter.
- 8. If desired, secure the position of the switch with a nylon wire tie around the pipe and switch. PVC cement may also be used by must be dry before test operation.
- 9. Cycle system power or thermostat off for 5 seconds to reset SOS Switch.



TYPICAL CONNECTION

CONDENSATE MANAGEMENT

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