



WET SWITCH

Model No. WS-1 U.S. Pat. # 4787212

The Wet Switch is a solid state device designed to detect the presence of condensate water overflow. Upon sensing moisture, the Wet Switch will turn the system off to help prevent damage to carpets, walls, woodwork, ceilings and other property. The covered area can be expanded by connecting one or more Wet Switches in series.

The Wet Switch also provides isolated relay contacts. This adds flexibility in installations with electronic control boards where breaking one lead from the transformer is not possible.

Installation

- Turn off power to the system.
- Place the wet switch with the padded side down on the surface to be monitored.
- Route the cable from the wet switch to cooling control voltage transformer as shown in the wiring diagram. Wire can be extended if necessary.
- Cut common wire of transformer.
- Connect black wire from wet switch to same wire on transformer where common was cut.
- Connect green wire from wet switch to common wire that was cut from transformer in step 4.
- Connect red wire from wet switch to 24VAC of transformer.
- Connect orange wire to the common wire that was cut going to the system.
- Do not connect to the white wire.
- Restore power to the system.

NOTE: Red light (LED) on wet switch will light if control is tripped by the presence of water, and remain lit even after water has dried up.

TO RESET

- Turn power off to system.
- Solve water leak problem.
- Wipe up any standing water around the wet switch.
- Dry the sensor pad on the wet switch thoroughly with a paper towel, uses of a blow drier (on low) can speed up drying.
- When wet switch is dry turn power on to system, the LED will be off and the system will run, if red light comes back on then pad is not dry.

CONTROLLING SELECTED COMPONENTS

To stop selected components of a system such as compressors, electric valves, condenser pumps, chill water pumps or other 24VAC controls, wire the wet switch to break the common to just that control.

Specifications:

Indicators:

Green LED - Power
Red LED - Moisture Detected

Power Requirements:

24 VAC 50/60 HZ
1.5 Watts Max (wet) < 0.5 Watts (dry)

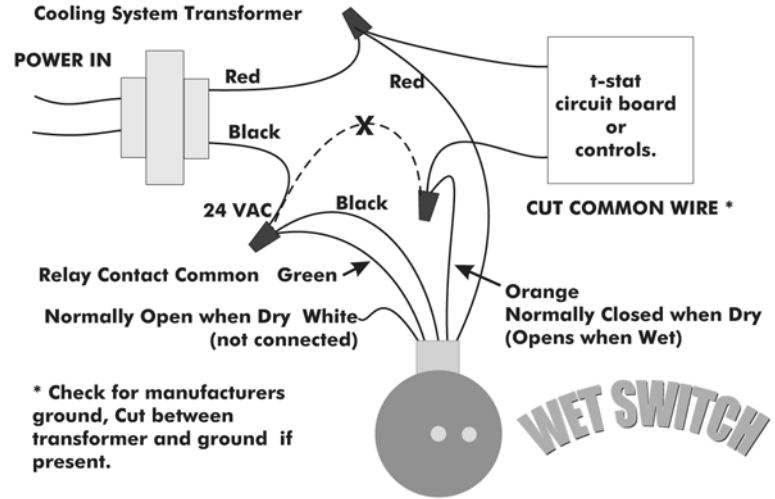
Relay:

Isolated Contacts
2 Amps - Normally Closed Contact
2 Amps - Normally Open Contact

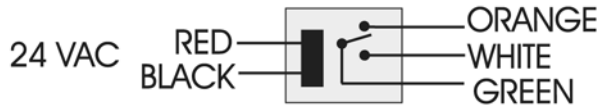
Latching Operation Reset:

Remove power
Dry sensor plates
Re-apply power

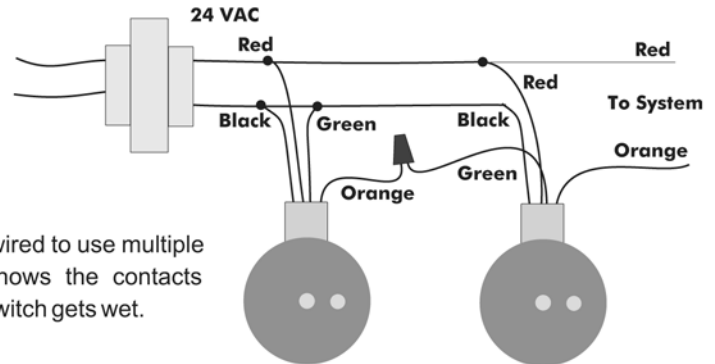
Typical Connection



Wet Switch Schematic



Connection showing two or more wet switches in series



The contacts of the Wet Switch's relay may be wired to use multiple Wet Switches. The Drawing to the right shows the contacts interrupting the 24 VAC signal when either wet switch gets wet.



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