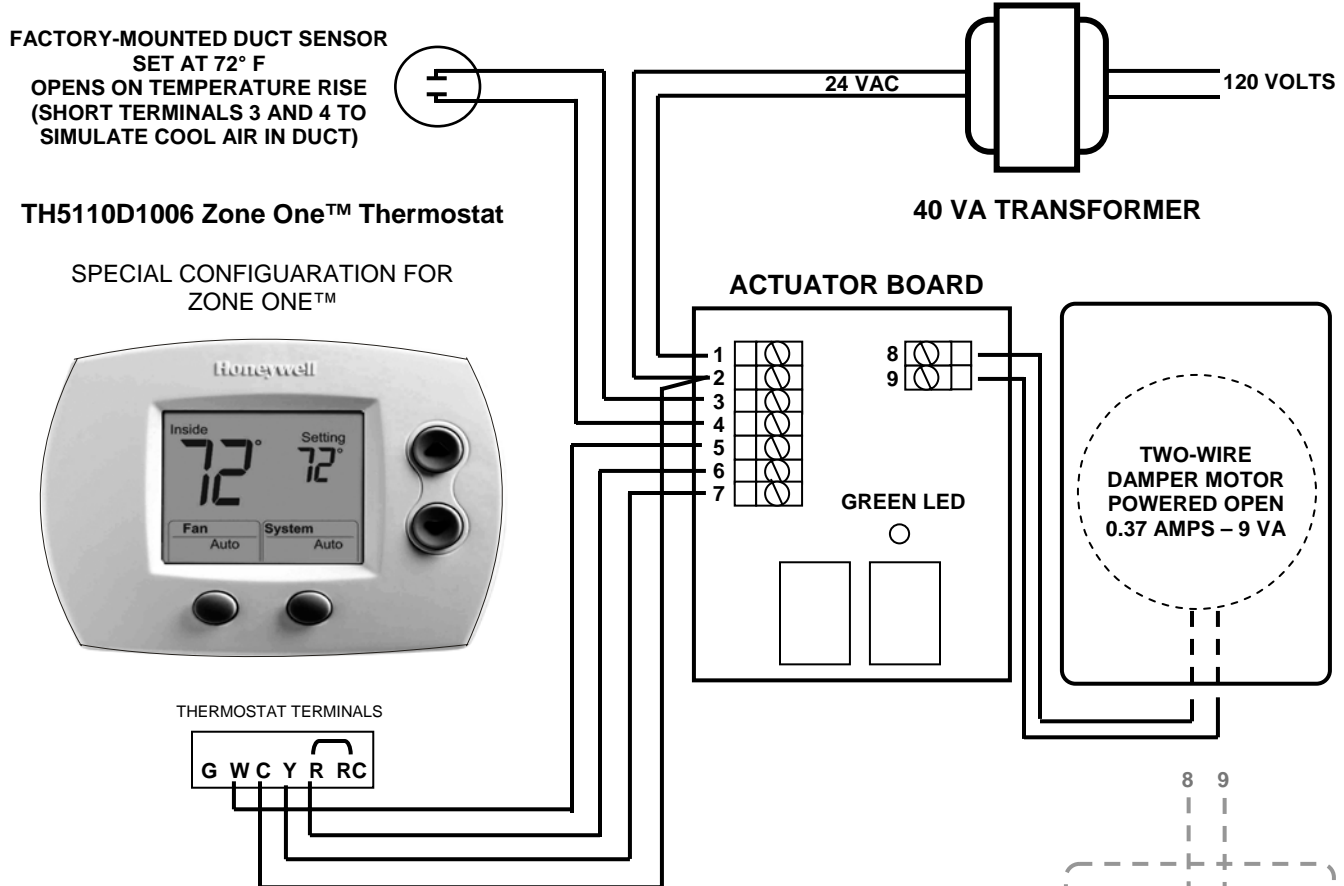


Zone One™

Two Position Stand-Alone Zone Damper Assembly



SEQUENCE OF OPERATION:

The automatic changeover duct sensor (located on the Zone One™ damper) senses whether there is warm air or cool air in the branch supply duct. If the Zone One™ thermostat is calling for cooling and the duct sensor determines there is cool air in the duct, the damper will open; otherwise, the damper will remain closed. If the Zone One™ thermostat is calling for heating and the duct sensor determines there is warm air in the duct, the damper will open; otherwise, the damper will remain closed.

The green LED located on the actuator board indicates when the damper is in the open position.

APPLICATION AND INSTALLATION NOTES:

The Zone One™ thermostat (TH5110D1006) can control up to 3 dampers in parallel.

If Zone One™ dampers are used to zone more than 30% of the area served by the HVAC system, a bypass damper may be required to maintain constant system static pressure.

The HVAC unit should be controlled by its own space thermostat or discharge air controller. When a space thermostat is used to control the HVAC equipment, it is important that at least 30% of the system load be controlled by this thermostat. The HVAC unit space thermostat must never be located in an area served by a Zone One™.

A suction line freeze stat (FS-38) should be installed to protect the equipment in the event the suction line temperature drops too low (wire in series with cooling control circuit).

